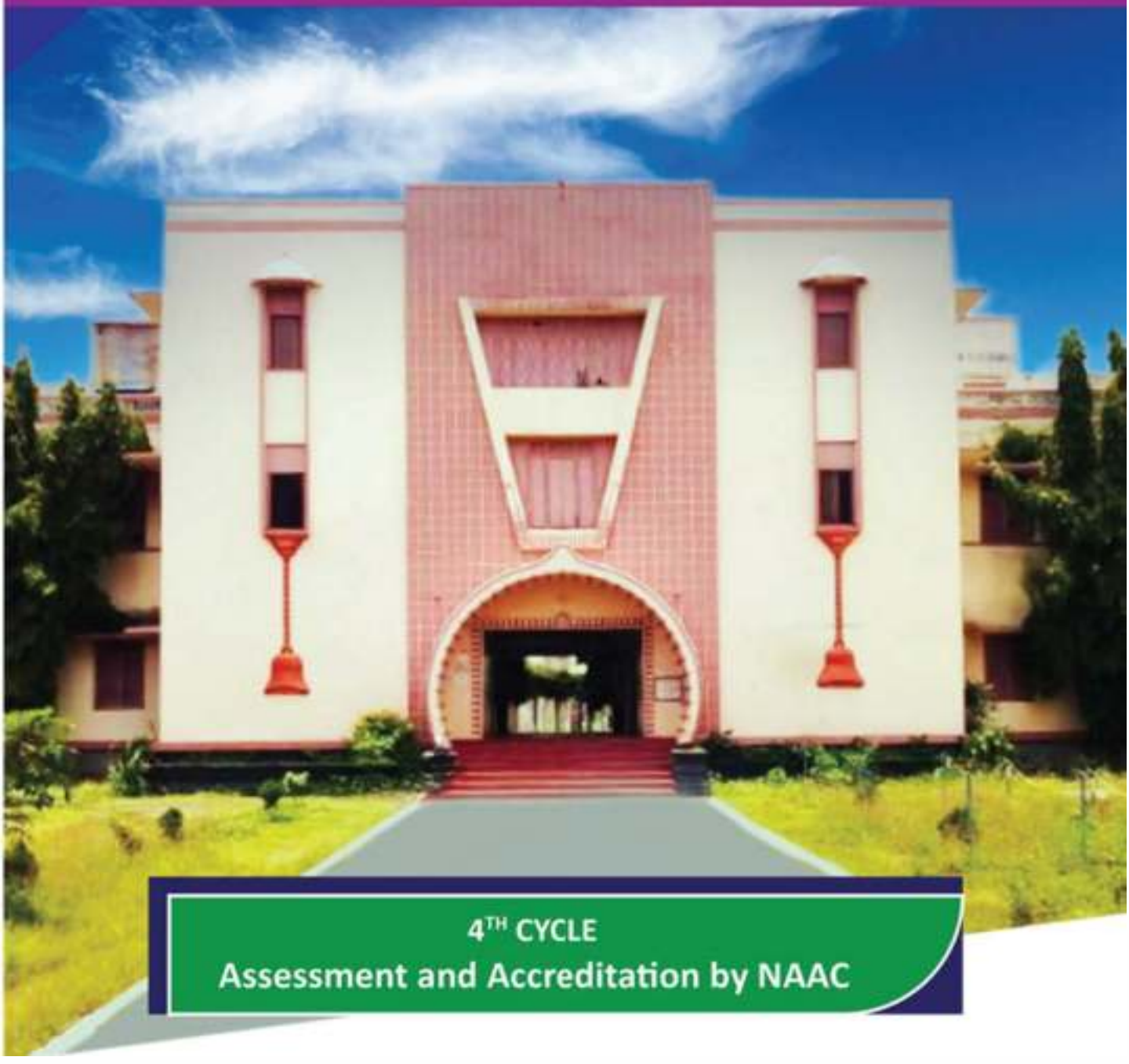
Dhamangaon Education Society's (Hindi Linguistic Minority Educational Institution)

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY, DISTRICT-AMRAVATI: 444709

NAAC Accredited by B^{++} with C.G.P.A. 2.81 (3rd Cycle)



Criterion-I: Curricular Aspects

QnM -1.3.2

Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

Dhamangaon Education Society's
(Hindi Linguistic Minority Educational Institution)
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon Rly., Dist. Amravati, Maharashtra, India-444709
NAAC RE-ACCREDITED 'B++' GRADE (CGPA 2.81)
☎ 07222237045 Fax: 07222237087 e-mail: amvdmn2010@gmail.com
Principal
Dr. Yogendra B. Gandole 9421737928 (M) ☎ 07222238085 (R) e-mail: ygandole@gmail.com

No. Date:

21/12/2022

Declaration

The information, reports, true copies of the supporting documents, numerical data, etc. furnished in this file is verified by IQAC and found correct.

Hence this certificate.

Dr. Anand G. Naranje
IQAC Coordinator
IQAC Co-ordinator
Adarsha Sci. J. B. Arts and
Birla Commerce College
Dhamangaon Railway

Dr. Yogendra B. Gandole
Chairman, IQAC & Principal
Adarsha Mahavidyalaya,
Dhamangaon Rly.
PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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2017-18

SR.	CLASS	SUBJECT	SEM	PROJECT/FIELD WORK/ INTERRNSHIP	Pg. No.
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2	B. SC.	CHEMISTRY	SEM IV	PROJECT WORK	13-22
3	B. SC.	CHEMISTRY	SEM V	PROJECT WORK	23-33
4	B. SC.	CHEMISTRY	SEM VI	PROJECT WORK	34-44
5	B. SC.	COMPUTER SCI.	SEM III	PROJECT WORK	45-55
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SR.	CLASS	SUBJECT	SEM	PROJECT/FIELD WORK/ INTERRNSHIP	Pg. No.
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21	B. SC.	ZOOLOGY	SEM IV	PROJECT WORK	456-466
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10	M. SC.	ELECTRONICS	SEM IV	PROJECT WORK	600-607
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12	B. SC.	MICROBIOLOGY	SEM IV	PROJECT WORK	619-629
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17	B. SC.	PHYSICS	SEM IV	PROJECT WORK	672-682
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SR.	CLASS	SUBJECT	SEM	PROJECT/FIELD WORK/ INTERRNSHIP	Pg. No.
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17-18 CHEM SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Optical Isomerism

By

1) Shivani C. Ronghe

2) Prajkta A. Dube

3) Vrushali V. Gulhane

4) Renuka N. Vairale

5) Shital Hajare

B. Sc. II (Sem. III)

Date of submission – *23 Sept.2017*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.III) during the session 2017-2018.

1) Shivani C. Ronghe

2) Prajkta A. Dube

3) Vrushali V. Gulhane

4) Renuka N. Vairale

5) Shital Hajare

Project Topic
Optical Isomerism

Principal
Adarsha Science
Jaisamdas Thagichand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher incharge

Head

Date- 23/09/2017

Department of Chemistry

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Molecular Orbital Theory

By

1) Miss. Pranjali Jagtap

2) Miss. Priyanka Sawalkar

3) Miss. Nitiksha Gawande

4) Miss. Ashwini Farkade

B. Sc. II (Sem. III)

Date of submission – *23th Sep. 2017*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

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1) Miss. Pranjali Jagtap
2) Miss. Priyanka Sawalkar
3) Miss. Nitiksha Gawande
4) Miss. Ashwini Farkade

Project Topic

" MOLECULAR ORBITAL THEORY"

Principal
Adarsha Science
Jairamdas Thagechand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher incharge

Date- 23/09/2017

Head

Department of Chemistry

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic :

VSEPR Theory And Molecular Geometry

By

1) Miss. Shreyasti H. Padole

2) Miss. Mrunal K. Bhoge

3) Miss. Damini K. Chaudhari

4) Miss. Snehal V. Talware

5) Miss. Siddhi V. Raut

B. Sc. II (Sem. III)

Date of submission – *23th Sep. 2017*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.III) during the session 2017-2018.

1) Miss. Shreyasti H. Padole
2) Miss. Mrunal K. Bhoge
3) Miss. Damini K. Chaudhari
4) Miss. Snehal V. Talware
5) Miss. Siddhi V. Raut

Project Topic

"VSEPR THEORY AND MOLECULAR GEOMETRY"

Principal
Adarsha Science
Jaiswardas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher incharge

Date- 23/09/2017

Head

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

17-18 CHEM SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Depression in freezing point

By

1)Yuvraj H. Soni

2)Akshay D. Itiwale

3)Saurav M. Dhote

4)Kartik S. Gayke

(5Aditya A. Shelokar

B. Sc. II (Sem. IV)

Date of submission – ~~25~~ 28*th feb.2018*

W-2017
S-2018

S-2018

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2017-2018.

1) Yuvraj H. Soni

2) Akshay D. Itiwale

3) Saurav M. Dhote

4) Kartik S. Gayke

(5 Aditya A. Shelokar

Project Topic:

Depression in freezing point

Principal
Adarsha Science
Jahrandas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge

Date- 24.02.18

Head

Department of Chemistry

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic : Bravais lattices and crystal systems

By

1. Mr. Nikhil A. Manke
2. Mr. Swapnil P. Bhurbhure
3. Mr. Sagar G. Chamlate
4. Mr. Vaibhav R. Dhanaskar
5. Mr. Pankaj Koram

B. Sc. II (Sem. IV)

Date of submission – 15-02-2018

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

2017-18

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem VI) during the session 2017-2018.

Project Topic: Bravais lattices and crystal systems

1. Mr. Nikhil A. Manke
2. Mr. Swapnil P. Bhurbhure
3. Mr. Sagar G. Chamlate
4. Mr. Vaibhav R. Dhanaskar
5. Mr. Pankaj Koram

Principal
Adarsha Science
Jaikumar Bhoyar Arts
Dhamangaon Rly

Signature of Teacher incharge

Head

Date- 15-02-2018

Department of Chemistry

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Sir W
Commerce Mahavidyalaya,
Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic- Carbohydrate

By

1) Ku. Aafreen Jahan

2) Ku. Sumaiya Firdous

3) Ku. Harshada S. Thakare

4) Ku. Harshita P. Shriwas

5) Prajkta U. Naik

B. Sc. II (Sem. IV)

Date of submission – 28th Feb 2018 .

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2017-2018.

1) Ku. Aafreen Jahan

2) Ku. Sumaiya Firdous

3) Ku. Harshada S. Thakare

4) Ku. Harshita P. Shriwas

5) Prajkta U. Naik

Project Topic: Carbohydrate

Principal
Adarsha Science
Jaisamdas Bhagchand Arts
Birla Comaers Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher incharge

Date- 31.01.2018

Head

Department of Chemistry

Head
Department Of Chemistry
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Commerce Mahavidyalaya,
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Biofuels

By

1) Shivani C. Ronghe

2) Prajkta A. Dube

3) Vrushali V. Gulhane

4) Renuka D. Vairale

5) Shitąl D. Hajare

B. Sc. II (Sem.IV)

Date of submission –02/ 02/2018

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2017-2018.

1) Shivani C. Ronghe

2) Prajkta A. Dube

3) Vrushali V. Gulhane

4) Renuka D. Vairale

5) Shital D.Hajare

Project Topic
Biofuels

Principal
Adarsha Science
Jahemadan Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher incharge

Head of Department

Chemistry

Date- 2/02/2018

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

" Reactive Methylene Compound "

By

1) Shreyasti H. Padole

2) Mrunal K. Bhoge

3) Siddhi V. Raut

4) Damini K. chaudhari

5) Snehal V. Talware

B. Sc. II (Sem. IV)

Date of submission 28/02/*2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

17-18 CHEM SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Vibrational Spectroscopy and its Applications"

Submitted by

Miss. NIKITA PRAMOD MASKE

Miss. PRANALI VIJAY WAKEKAR

Miss. SHREYA VIJAYRAO UNONE

Miss. PRITI SUBHASHRAO MAHURE

B.Sc.-III (Sem-V)

Date of Submission: 21/09/2017

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Nikita Pramod Maske Miss. Maske Pranali Vijay Wakekar, Miss. Shreya Vijayrao Unone and Miss. Priti Subhashrao Mahure has carried out Project Work entitled "**NMR Spectroscopy**" successfully during the Session 2017-18 for Semester V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Chemistry

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Date of Submission: 24/02/2018

Principal

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Fluorescence and Phosphorescence"

Submitted by

Miss. AISHWARYA MANOJ PARSONE

Miss. MONALI BABLU YADAV

Miss. GEETA DIWAKARRAO GADEKAR

Miss. POOJA RAJENDRA HAJARE

Miss. KAJAL G. PUNWATKAR

B.Sc.-III (Sem-V)

Date of Submission: 21/09/2017

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Aishwarya Manoj Parsone, Miss. Monali Bablu Yadav, Miss. Geeta Diwakarrao Gadekar, Miss. Pooja Rajendra Hajare and Miss. Kajal G. Punwatkarhas carried out Project Work entitled "**Photoelectric effect**" successfully during the Session 2017-18 for Semester V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Chemistry

Date of Submission: 27/02/2018

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Photosensitized Reactions"

Submitted by

Miss. SAMIKSHA SHRIKRISHNA MASRAM

Miss. SHREYA RAVINDRA DESHPANDE

Miss. VAISHALI MOTIRAMJI DHANDE

Miss. VAISHNAVI GAURISHANKAR GUPTA

Miss. TEJASWINI NARENDRA MATIRE

B.Sc.-III (Sem-V)

Date of Submission: 22/09/2017

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Samiksha Shrikrishna Masram, Miss. Shreya Ravindra Deshpande, Miss. Vaishali Motiramji Dhande, Miss. Vaishnavi Gaurishankar and Miss. Gupta Tejaswini Narendra Matire carried out Project Work entitled "Concentration Cells" successfully during the Session 2017-18 for Semester V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Chemistry
Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

28/02/2018

Date of Submission:

Principal
Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Raman Spectroscopy"

Submitted by

Miss. RASIKA PRAVIN CHAKVE
Miss. RAVINA DILIPRAO JAULKAR
Miss. ROSHNI VIJAYRAO LOKHANDE
Miss. POONAM KISHORRAO DAKHARE
Miss. VRUSHALI PRAMODRAO KOSARKAR

B.Sc.-III (Sem-V)

Date of Submission: 23/09/2017

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Rasika Pravin Chakve, Miss. Ravina Diliprao Jaulkar, Miss. Roshni Vijayrao Lokhande, Miss. Poonam Kishorrao Dakhare and Miss. Vrushali Pramodrao Kosarkar has carried out Project Work entitled "IR Spectroscopy" successfully during the Session 2017-18 for Semester V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Chemistry

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Date of Submission: 27/02/2018

Principal

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Rotational Spectroscopy"

Submitted by

Miss. Aishwarya Rajesh Marve

Miss. Pratiksha Ramesh Himane

Miss. Shital Vijayrao Mankar

Miss. Supriya Vilas Durge

Miss. Vaibhavi Vilas Gulhane

B.Sc.-III (Sem-V)

Date of Submission: 22/09/2017

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Aishwarya Rajesh Marve, Miss. Pratiksha Ramesh Himane, Miss. Shital Vijayrao Mankar, Miss. Supriya Vilas Durge amd Miss. Vaibhavi Vilas Gulhane has carried out Project Work entitled "Mass Spectrometry" successfully during the Session 2017-18 for Semester V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Chemistry
Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Date of Submission: 27/02/2018

Principal
Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Comsers Mahavidyalaya
DHAMANGAON Rly.

17-18 CHEM SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"NMR Spectroscopy"

Submitted by

Miss. NIKITA PRAMOD MASKE

Miss. PRANALI VIJAY WAKEKAR

Miss. SHREYA VIJAYRAO UNONE

Miss. PRITI SUBHASHRAO MAHURE

B.Sc.-III (Sem-VI)

Date of Submission: 24/02/2018

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Nikita Pramod Maske Miss. Maske Pranali Vijay Wakekar, Miss. Shreya Vijayrao Unone and Miss. Priti Subhashrao Mahure has carried out Project Work entitled "**Vibrational Spectroscopy and its Applications**" successfully during the Session 2017-18 for Semester VIin compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Head
Department of Chemistry

Date of Submission: 21/09/2017

Principal

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Photoelectric effect"

Submitted by

Miss. AISHWARYA MANOJ PARSONE

Miss. MONALI BABLU YADAV

Miss. GEETA DIWAKARRAO GADEKAR

Miss. POOJA RAJENDRA HAJARE

Miss. KAJAL G. PUNWATKAR

B.Sc.-III (Sem-VI)

Date of Submission: 27/02/2018

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Aishwarya Manoj Parsone, Miss. Monali Bablu Yadav, Miss. Geeta Diwakarrao Gadekar, Miss. Pooja Rajendra Hajare and Miss. Kajal G. Punwatkarhas carried out Project Work entitled "**Fluorescence and Phosphorescence**" successfully during the Session 2017-18 for Semester VIin compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Dhamangaon Rly.

Head
Department of Chemistry

Date of Submission: 21/09/2017.

Principal

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Concentration Cells"

Submitted by

Miss. SAMIKSHA SHRIKRISHNA MASRAM

Miss. SHREYA RAVINDRA DESHPANDE

Miss. VAISHALI MOTIRAMJI DHANDE

Miss. VAISHNAVI GAURISHANKAR GUPTA

Miss. TEJASWINI NARENDRA MATIRE

B.Sc.-III (Sem-VI)

Date of Submission: 28/02/2018

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Samiksha Shrikrishna Masram, Miss. Shreya Ravindra Deshpande, Miss. Vaishali Motiramji Dhande, Miss. Vaishnavi Gaurishankar and Miss. Gupta Tejaswini Narendra Matire carried out Project Work entitled "Photosensitized Reactions" successfully during the Session 2017-18 for Semester VIin compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
Department of Chemistry
Adarsha Science J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Head
Department of Chemistry

Date of Submission: 22/09/2017

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"IR Spectroscopy"

Submitted by

Miss. RASIKA PRAVIN CHAKVE
Miss. RAVINA DILIPRAO JAULKAR
Miss. ROSHNI VIJAYRAO LOKHANDE
Miss. POONAM KISHORRAO DAKHARE
Miss. VRUSHALI PRAMODRAO KOSARKAR

B.Sc.-III (Sem-VI)

Date of Submission: 27/02/2018

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Rasika Pravin Chakve, Miss. Ravina Diliprao Jaulkar, Miss. Roshni Vijayrao Lokhande, Miss. Poonam Kishorrao Dakhare and Miss. Vrushali Pramodrao Kosarkar has carried out Project Work entitled "Raman Spectroscopy" successfully during the Session 2017-18 for Semester VIin compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
Department of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya
Dhamangaon Rly.

Head
Department of Chemistry

Date of Submission: 23/09/2017

Principal

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commers Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

Topic

"Mass Spectrometry"

Submitted by

Miss. Aishwarya Rajesh Marve
Miss. Pratiksha Ramesh Himane
Miss. Shital Vijayrao Mankar
Miss. Supriya Vilas Durge
Miss. Vaibhavi Vilas Gulhane

B.Sc.-III (Sem-VI)

Date of Submission: 27/02/2018

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2017-2018

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that, Miss. Aishwarya Rajesh Marve, Miss. Pratiksha Ramesh Himane, Miss. Shital Vijayrao Mankar, Miss. Supriya Vilas Durge amd Miss. Vaibhavi Vilas Gulhane has carried out Project Work entitled "Rotational Spectroscopy" successfully during the Session 2017-18 for Semester VI in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Head
Department of Chemistry

Date of Submission: 22/09/2017

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Aafrin S.A.** has carried out Project Work entitled " **Hotel Comparing Website** " successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mariya Husain** has carried out Project Work entitled " **Hotel Comparing Website** **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Shubdha Dhakulkar** has carried out Project Work entitled " **Hotel Comparing Website** " successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Amit Dambale** has carried out Project Work entitled " **The Hedge Fund & Goal Planner** " successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avil Chitukane** has carried out Project Work entitled " **The Hedge Fund & Goal Planner** " successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Hotel Comparing Website

-:SUBMITTED BY:-

Aafrin S.A.

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Hotel Comparing Website

-:SUBMITTED BY:-

Mariya Husain

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Hotel Comparing Website

-:SUBMITTED BY:-

Shubdha Dhakulkar

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

The Hedge Fund & Goal Planner

-:SUBMITTED BY:-

Amit Dambale

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

The Hedge Fund & Goal Planner

-:SUBMITTED BY:-

Avil Chitukane

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Ku. Aafrin S. Alimmiya** has carried out Project Work entitled "**Mobile Jammer"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Amit H. Dambale**has carried out Project Work entitled "**Mobile Jammer"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avil S. Chitukane**has carried out Project Work entitled "**Mobile Jammer"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avinash A. Donadkar**has carried out Project Work entitled "**Fast And Secure Protocol"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Ku. Mariya Q. Hussain**has carried out Project Work entitled "**Fast And Secure Protocol"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Mobile Jammer

-:SUBMITTED BY:-

Ku. Aafrin S. Alimmiya

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Mobile Jammer

-:SUBMITTED BY:-

Amit H. Dambale

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Mobile Jammer

-:SUBMITTED BY:-

Avil S. Chitukane

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Fast And Secure Protocol

-:SUBMITTED BY:-

Avinash A. Donadkar

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Fast And Secure Protocol

-:SUBMITTED BY:-

Ku. Mariya Q. Hussain

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Ku. Aachal R. Chatule** has carried out Project Work entitled "Virtual Smart Phone **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Ku. Aakanksha J.Khair** has carried out Project Work entitled "Virtual Smart Phone **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Ku. Aparna D. Jagtap** has carried out Project Work entitled "Virtual Smart Phone **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Ku. Linata P. Jumade** has carried out Project Work entitled "3D Human Sensing **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mayur H. Ghawat** has carried out Project Work entitled "3D Human Sensing **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Virtual Smart Phone

-:SUBMITTED BY:-

Ku. Aachal R. Chatule

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Virtual Smart Phone

-:SUBMITTED BY:-

Ku. Aakanksha J.Khair

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Virtual Smart Phone

-:SUBMITTED BY:-

Ku. Aparna D. Jagtap

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

3D Human Sensing

-:SUBMITTED BY:-

Ku. Linata P. Jumade

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

3D Human Sensing

-:SUBMITTED BY:-

Mayur H. Ghawat

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Aabha Choudhari** has carried out Project Work entitled " Carrier Advisor **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Akansha Tupat** has carried out Project Work entitled " Carrier Advisor **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Achal Chatule** has carried out Project Work entitled " Tutor **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Akansha Khair** has carried out Project Work entitled " Tutor **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Linata Jumde** has carried out Project Work entitled " Tutor **"** successfully during the Session 2017-2018 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Carrier Advisor

-:SUBMITTED BY:-

Aabha Choudhari

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Carrier Advisor

-:SUBMITTED BY:-

Akansha Tupat

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Tutor

-:SUBMITTED BY:-

Achal Chatule

B.Sc. III [SEM V]

Dr. M. V. MAWALE

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DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Tutor

-:SUBMITTED BY:-

Akansha Khair

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Tutor

-:SUBMITTED BY:-

Linata Jumde

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2017-2018)

17-18 ELECTRONICS SEM VI

A

PROJECT REPORT

ON

"Dual LED Flasher using IC-555"

ESTD. 1914

Guided by

Dr.Y.B. Gandole

Prof.S.A. Rodge

Shri. G. B. Kumare

Submitted By

Vaishali S. Chakdhare

Yogita A. Bhalerao

Mohini V. Bire

Neha S. Panpaliya

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

CERTIFICATE



This is to certify that the project work entitled **"Dual LED Flasher using IC-555"**

This is being submitted by

Vaishali S.Chakdhare

Yogita A. Bhalerao

Mohini V. Bire

Neha S.Panpaliya

In partial Fulfillment of the reqiuirement for award of Bachelor Of Science in Electronics (Instrumentation) from Sant Gadge Baba Amravati Univrsity, Amravati during academic session 2017-2018 is the record of their own work.

Certified that they carry out this work under the guidance and to our satisfaction.

Dr.Y.B. Gandole
(PRINCIPAL)

Prof.S.A. Rodge

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

A

PROJECT REPORT

ON

"Music Reactive LEDs"

ESTD. 1914

Guided by

Dr.Y.B. Gandole

Prof.S.A. Rodge

Shri. G. B. Kumare

Submitted By

Punam S. Alone

Kajal P. Tawari

Rakhi S. Ghate

Yuga . Ghate

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

CERTIFICATE

ESTD. 1914

This is to certify that the project work entitled *"Music Reactive LEDs"*.

This is being submitted by

Punam S. Alone — Kajal P. Tawari

Rakhi S. Ghate — Yuga . Ghate

In partial Fulfillment of the reqiuirement for award of Bachelor Of Science in Electronics (Instrumentation) from Sant Gadge Baba Amravati Univrsity, Amravati during academic session 2017-2018 is the record of their own work.

Certified that they carry out this work under the guidance and to our satisfaction.

Dr.Y.B. Gandole
(Principal)
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

Prof.S.A. Rodge

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

A

PROJECT REPORT

ON

"Touch ON and OFF Switch Circuit"



Guided by

Dr.Y.B. Gandole

Prof.S.A.Rodge

Shri. G. B. Kumare

Submitted By

Miss. Rani S. Daswat

Miss. Rupali P. Khobragade

Miss.Pranjali N.Sabale

Miss. Mayuri B. Wankhade

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

CERTIFICATE

ESTD. 1914

This is to certify that the project work entitled "**Touch ON and OFF Switch Circuit**".

This is being submitted by

Miss. Rani S. Daswat

Miss. Rupali P. Khobragade

Miss. Pranjali N. Sabale

Miss. Mayuri B. Wankhade

In partial Fulfillment of the reqiuirement for award of Bachelor Of Science in Electronics (Instrumentation) from SantGadge Baba Amravati Univrsity, Amravati during academic session 2017-2018 is the record of their own work.

Certified that they carry out this work under the guidance and to our satisfaction.

Dr.Y.B. Gandole
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Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

A

PROJECT REPORT

ON

"DIY Power bank"



Guided by

Dr.Y.B. Gandole

Prof.S.A. Rodge

G. B. Kumare

Submitted By

Sayma sadaf S. Khan

Chaitanya . Gulhane

Chitralekha A. Kolhe

Aakanksha V. Tupat

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)2017-2018

CERTIFICATE



This is to certify that the project work entitled "DIY power bank".

This is being submitted by

Sayma sadaf S. Khan. Chitralekha A. Kolhe.

Chaitanya . Gulhane. Aakanksha V. Tupat.

In partial Fulfillment of the reqiuirement for award of Bachelor Of Science in Electronics (Instrumentation) from Sant Gadge Baba Amravati Univrsity, Amravati during academic session 2017-2018 is the record of their own work.

Certified that they carry out this work under the guidance and to our satisfaction.

Dr.Y.B. Gandole
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Prof.S.A. Rodge

Department of electronics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

2017-2018

A

Project Report

On

"Heat sensor with fan cooling"



Guided By

Dr. Y.B. Gandole
(Principal)

Prof. S.A. Rodge

Shri .G.B.Kumare

Submitted By

Miss. Pallavi R. Jichkar

Mr. Rushikesh S. Raut

Mr. Avinash A. Muneshwar

Department Of Electronics

Adarsha Science , J.B. Arts And Birla Commerce Mahavidyalaya Dhamangaon (Rly)[2017-18]

CERTIFICATE



"THIS IS TO CERTIFY THAT THE PROJECT WORK ENTITLED"

"Heat sensor with fan cooling"

This is being submitted by

Miss.Pallavi R. Jichkar ***Mr. Rushikesh S. Raut***

Mr.Avinash A. Muneshwar

In partial fulfillment of the requirements for award of bachelor of science in electronics from Sant Gadge Baba Amravati University, Amravati during academic session 2017-18 is the record of their own word.

Certified that they carried out this work under the guidance and our satisfaction

Dr. Y.B. Gandole

PRINCIPAL
Arts, Science, J.D. Arts
& Late Comm. Commerce College
Dharmagaon Rly.

(Principal)

PROF. S.A.Rodge ***Miss.N.O.Mundhada***

Department Of Electronics [2017-18]

17-18 MICROBIOLOGY SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Modes of DNA Replication

Submitted by

Aafreen Jahan S. Murtuza

B.Sc.II (Sem-III)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Modes of DNA Replication has carried out Project Work entitled **"Modes of DNA Replication"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Mechanism of DNA Replication

Submitted by

Akshay D. Itiwale

B.Sc.II (Sem-III)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Mechanism of DNA Replication has carried out Project Work entitled **"Mechanism of DNA Replication"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Photoreactivation

Submitted by

Akshay M. Bhoyar

B.Sc.II (Sem-III)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Photoreactivation has carried out Project Work entitled **"Photoreactivation"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Characteristics of Genetic Code

Submitted by

Akshay P.Kombe

B.Sc.II (Sem-III)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Characteristics of Genetic Code has carried out Project Work entitled **"Characteristics of Genetic Code"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"Transcription

Submitted by

Aniket J. Raut

B.Sc.II (Sem-III)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Transcription has carried out Project Work entitled **"Transcription"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

17-18 MICROBIOLOGY SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Widal Test

Submitted by

Aafreen Jahan S. Murtuza

B.Sc.II (Sem-IV)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aafreen Jahan S. MurtuzaWidal Test has carried out Project Work entitled **"Widal Test"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Antigenic Determinants

Submitted by

Akshay D. Itiwale

B.Sc.II (Sem-IV)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Akshay D. ItiwaleAntigenic Determinants has carried out Project Work entitled **"Antigenic Determinants"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Ig G (Immunoglobulin G)

Submitted by

Akshay M. Bhoyar

B.Sc.II (Sem-IV)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aniket J. RautIg A (Immunoglobulin A) has carried out Project Work entitled **"Ig A (Immunoglobulin A)"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"RPR Test

Submitted by

Harshada S. Thakare

B.Sc.II (Sem-IV)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Harshada S. ThakareRPR Test has carried out Project Work entitled **"RPR Test"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"ELISA Test

Submitted by

Harshita P. Shriwas

B.Sc.II (Sem-IV)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Harshita P. ShriwasELISA Test has carried out Project Work entitled **"ELISA Test"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

17-18 MICROBIOLOGY SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Symbiotic Nitrogen Fixation

Submitted by

Aishwarya Rajesh Marve

B.Sc.III (Sem-V)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aishwarya Rajesh MarveSymbiotic Nitrogen Fixation has carried out Project Work entitled **"Symbiotic Nitrogen Fixation"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"Bioleaching

Submitted by

Anam Shadab Mohd Asad

B.Sc.III (Sem-V)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Anam Shadab Mohd AsadBioleaching has carried out Project Work entitled **"Bioleaching"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Isotopic Tracer technique

Submitted by

Bhairavi Laxminarayan Gandhi

B.Sc.III (Sem-V)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Bhairavi Laxminarayan GandhiIsotopic Tracer technique has carried out Project Work entitled **"Isotopic Tracer technique"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Biodegradation of pesticides

Submitted by

Bhautika Vinodrao Zatale

B.Sc.III (Sem-V)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Bhautika Vinodrao ZataleBiodegradation of pesticides has carried out Project Work entitled **"Biodegradation of pesticides"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Air sanitation

Submitted by

Kajal Raju Tupsundare

B.Sc.III (Sem-V)

Date of Submission: Winter 2017

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Kajal Raju TupsundareAir sanitation has carried out Project Work entitled **"Air sanitation"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2017 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

17-18 MICROBIOLOGY SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Penicillin

Submitted by

Aishwarya Rajesh Marve

B.Sc.III (Sem-VI)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aishwarya Rajesh Marve has carried out Project Work entitled **"Industrial Production of Penicillin"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Microbial Industrial Production of Cellulase

Submitted by

Anam Shadab Mohd Asad

B.Sc.III (Sem-VI)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Anam Shadab Mohd Asad has carried out Project Work entitled **"Microbial Industrial Production of Cellulase"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Industrial Production of Beer

Submitted by

Bhairavi Laxminarayan Gandhi

B.Sc.III (Sem-VI)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Bhairavi Laxminarayan Gandhi has carried out Project Work entitled **"Industrial Production of Beer"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Amylase (Bacterial)

Submitted by

Bhautika Vinodrao Zatale

B.Sc.III (Sem-VI)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Bhautika Vinodrao Zatale has carried out Project Work entitled **"Industrial Production of Amylase (Bacterial)"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Single Cell Protein

Submitted by

Kajal Raju Tupsundare

B.Sc.III (Sem-VI)

Date of Submission: Summer 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Kajal Raju Tupsundare has carried out Project Work entitled **"Industrial Production of Single Cell Protein"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

17-18 PHYSICS SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Construction and application of Temperature sensor"

Submitted by

AAFRIN S. ALIMMIYA
AARATI C. GATHE
ADESH R. KOTHARI
ADITYA D. JOSHI

B.Sc. II (Sem-III)

Date of Submission: 10/10/2017

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. AAFRIN S. ALIMMIYA, AARATI C. GATHE, ADESH R. KOTHARI, ADITYA D. JOSHI** have carried out Project Work entitled **"Construction and application of Temperature sensor"** successfully during the Session 2017-18 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics

(Dr. Y. B. Gandole)
Principal
Adarsha Science, J.B. Arts & Birla Comm., Mahavidyalaya
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Study of Wave particle duality"

Submitted by

ADITYA S. KITUKALE
AISHWARYA M. THAKARE
AJINKYA P. GAYAKWAD
AKANSHA R. SAHU

B.Sc. II (Sem-III)

Date of Submission: 10/10/2017

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. ADITYA S. KITUKALE, AISHWARYA M. THAKARE, AJINKYA P. GAYAKWAD, AKANSHA R. SAHU** have carried out Project Work entitled **"Study of Wave particle duality"** successfully during the Session 2017-18 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Study of water Jet packet"

Submitted by

AKASH S. GAWARLE
AKSHAY S. POL
AMIT H. DAMBALE
ANIKET L. GUPTA

B.Sc. II (Sem-III)

Date of Submission: 10/10/2017

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. AKASH S. GAWARLE, AKSHAY S. POL, AMIT H. DAMBALE, ANIKET L. GUPTA** have carried out Project Work entitled **"Study of water Jet packet"** successfully during the Session 2017-18 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

PRINCIPAL
Adarsha Science, J.B. Arts &
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Sensitive Intruder Alarm Circuit"

Submitted by

ANKITA B. WALKE
ASHISH V. CHAWARE
ASHWINI G. FARKADE
AVIL S. CHITUKANE

B.Sc. II (Sem-III)

Date of Submission: 10/10/2017

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2017-18

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. ANKITA B. WALKE, ASHISH V. CHAWARE, ASHWINI G. FARKADE, AVIL S. CHITUKANE** have carried out Project Work entitled **"Sensitive Intruder Alarm Circuit"** successfully during the Session 2017-18 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics
Head Of Physics Deptt.
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"The Theory of Relativity, Then and Now"

Submitted by

AVINASH A. DONADKAR
BHAIRAVI R. HIRADE
CHETAN N. KHANDARE
DAMINEE R. BUTLE

B.Sc. II (Sem-III)

Date of Submission: 10/10/2017

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. AVINASH A. DONADKAR, BHAIRAVI R. HIRADE, CHETAN N. KHANDARE, DAMINEE R. BUTLE** have carried out Project Work entitled **"The Theory of Relativity, Then and Now"** successfully during the Session 2017-18 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
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17-18 PHYSICS SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Optical/Acoustic Metamaterials"

Submitted by

AAFRIN S. ALIMMIYA
AARATI C. GATHE
ADESH R. KOTHARI
ADITYA D. JOSHI

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. AAFRIN S. ALIMMIYA, AARATI C. GATHE, ADESH R. KOTHARI, ADITYA D. JOSHI** have carried out Project Work entitled **"Optical/Acoustic Metamaterials"** successfully during the Session 2017-18 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics
Head Of Physics Deptt.
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Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Solar Outdoor Air Purifier"

Submitted by

ADITYA S. KITUKALE
AISHWARYA M. THAKARE
AJINKYA P. GAYAKWAD
AKANSHA R. SAHU

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. ADITYA S. KITUKALE, AISHWARYA M. THAKARE, AJINKYA P. GAYAKWAD, AKANSHA R. SAHU** have carried out Project Work entitled **"Solar Outdoor Air Purifier"** successfully during the Session 2017-18 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Optical Atomic Clock"

Submitted by

AKASH S. GAWARLE
AKSHAY S. POL
AMIT H. DAMBALE
ANIKET L. GUPTA

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. AKASH S. GAWARLE, AKSHAY S. POL, AMIT H. DAMBALE, ANIKET L. GUPTA** have carried out Project Work entitled **"Optical Atomic Clock"** successfully during the Session 2017-18 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge
(Mr. V. S. Thool.)

(Dr. S. G. Onkar)
Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
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(Dr. Y. B. Gandole)
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Optical Metrology"

Submitted by

ANKITA B. WALKE
ASHISH V. CHAWARE
ASHWINI G. FARKADE
AVIL S. CHITUKANE

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2018

Department of Physics

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Academic Session: 2017-18

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. ANKITA B. WALKE, ASHISH V. CHAWARE, ASHWINI G. FARKADE, AVIL S. CHITUKANE** have carried out Project Work entitled **"Optical Metrology"** successfully during the Session 2017-18 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Laser Ignition System"

Submitted by

AVINASH A. DONADKAR
BHAIRAVI R. HIRADE
CHETAN N. KHANDARE
DAMINEE R. BUTLE

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2018

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Academic Session: 2017-18

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. AVINASH A. DONADKAR, BHAIRAVI R. HIRADE, CHETAN N. KHANDARE, DAMINEE R. BUTLE** have carried out Project Work entitled **"Laser Ignition System"** successfully during the Session 2017-18 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

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17-18 PHYSICS SEM V

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Quantum Computing"

Submitted by

AISHWARYA M. PARSONE
ANKUSH A. BHOYAR
ASHISH D. SHENDE

B.Sc. III (Sem-V)

Date of Submission: 10/10/2017

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Academic Session: 2017-2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Aishwarya M. Parsone, Ankush A. Bhoyar, Ashish D. Shende** have carried out Project Work entitled **"Quantum Computing"** successfully during the Session 2017 - 18 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Quantum dots"

Submitted by
CHAITALI V. BORKAR
DIVYANI R. MAHATME
GAYATRI U. GOUR

B.Sc. III (Sem-V)

Date of Submission: 10/10/2017

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Academic Session: 2017-2018

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CERTIFICATE

This is to certify that **Mr. / Miss. Chaitali V. Borkar, Divyani R. Mahatme, Gayatri U. Gour** have carried out Project Work entitled **"Quantum dots"** successfully during the Session 2017 - 18 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Big bang model of elementary particles"

Submitted by
GEETA D. GADEKAR
KAJAL G. PUNWATKAR
MONALI B. YADAV

B.Sc. III (Sem-V)

Date of Submission: 10/10/2017

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CERTIFICATE

This is to certify that **Mr. / Miss. Geeta D. Gadekar, Kajal G. Punwatkar, Monali B. Yadav** have carried out Project Work entitled **"Big bang model of elementary particles"** successfully during the Session 2017 - 18 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Raman Spectroscopy"

Submitted by
NIKITA P. MASKE
POOJA R. HAJARE
PRANALI V. WAKEKAR

B.Sc. III (Sem-V)

Date of Submission: 10/10/2017

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Academic Session: 2017-2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Nikita P. Maske, Pooja R. Hajare, Pranali V. Wakekar** have carried out Project Work entitled **"Raman Spectroscopy"** successfully during the Session 2017 - 18 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Development in nuclear fusion"

Submitted by

RACHIT N. MAHAJAN

SAEMA ANJUM S. ALI

SAMREEN FIRDOUS S. CHAND

B.Sc. III (Sem-V)

Date of Submission: 10/10/2017

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Rachit N. Mahajan, Saema Anjum S. Ali, Samreen Firdous S. Chand** have carried out Project Work entitled **"Development in nuclear fusion"** successfully during the Session 2017 - 18 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/10/2017

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17-18 PHYSICS SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Liquid Crystals"

Submitted by

AISHWARYA M. PARSONE
ANKUSH A. BHOYAR
ASHISH D. SHENDE

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2018

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Academic Session: 2017-2018

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CERTIFICATE

This is to certify that **Mr. / Miss. Aishwarya M. Parsone, Ankush A. Bhoyar, Ashish D. Shende** have carried out Project Work entitled **"Liquid Crystals"** successfully during the Session 2017 - 18 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge

Head
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Head Dept. of Physics
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Topic

"Josephson Effect"

Submitted by

CHAITALI V. BORKAR
DIVYANI R. MAHATME
GAYATRI U. GOUR

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Chaitali V. Borkar, Divyani R. Mahatme, Gayatri U. Gour** have carried out Project Work entitled **"Josephson Effect"** successfully during the Session 2017 - 18 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Physical Method of Synthesis of Nanoparticles"

Submitted by

GEETA D. GADEKAR

KAJAL G. PUNWATKAR

MONALI B. YADAV

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2018

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Academic Session: 2017-2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Geeta D. Gadekar, Kajal G. Punwatkar, Monali B. Yadav** have carried out Project Work entitled **"Physical Method of Synthesis of Nanoparticles"** successfully during the Session 2017 - 18 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Bose Einstein Condensation"

Submitted by
NIKITA P. MASKE
POOJA R. HAJARE
PRANALI V. WAKEKAR

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2017-2018

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CERTIFICATE

This is to certify that **Mr. / Miss. Nikita P. Maske, Pooja R. Hajare, Pranali V. Wakekar** have carried out Project Work entitled **"Bose Einstein Condensation"** successfully during the Session 2017 - 18 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

Signature of Teacher in-charge

Head
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Superconductors in Transportation"

Submitted by

RACHIT N. MAHAJAN

SAEMA ANJUM S. ALI

SAMREEN FIRDOUS S. CHAND

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2018

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Academic Session: 2017-2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Rachit N. Mahajan, Saema Anjum S. Ali, Samreen Firdous S. Chand** have carried out Project Work entitled **"Superconductors in Transportation"** successfully during the Session 2017 - 18 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2018

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic
"ORIGIN OF CHORDATA"

Submitted by:
Ku. S. F. KAISER

B.Sc. II (Sem-III)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. S. F. Kaisar** has carried out Project Work entitled **"ORIGIN OF CHORDATA"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Department of Zoology
Adarsha Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"MIGRATION IN FISHES"

Submitted by:

Ku. A. M. Murtuza

B.Sc. II (Sem- III)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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CERTIFICATE

This is to certify that **Ku. A. M. Murtuza** has carried out Project Work entitled **"MIGRATION IN FISHES"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"AQUATIC ADAPTATION IN ANIMALS"

Submitted by

Mr. A. D. Itiwale

B.Sc. II (Sem- III)

Date of Submission:

Department of Zoology

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Academic Session: 2017-18

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CERTIFICATE

This is to certify that **Mr. A. D. Itiwale** has carried out Project Work entitled **"AQUATIC ADAPTATION IN ANIMALS"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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Topic

"DESERT ADAPTATION IN ANIMALS"

Submitted by

Mr. A. M. Bhoyar

B.Sc. II (Sem- III)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. A. M. Bhoyar** has carried out Project Work entitled **"DESERT ADAPTATION IN ANIMALS"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"TERRESTRIAL ADAPTATION IN ANIMALS"

Submitted by

Mr. A. J. Raut

B.Sc. II (Sem-III)

Date of Submission:

Department of Zoology

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Academic Session: 2017-18

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. A. J. Raut** has carried out Project Work entitled **"TERRESTRIAL ADAPTATION IN ANIMALS"** successfully during the Session 2017-18 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Structure of Gills"

Submitted by

Ku. A. R. Marve

B.Sc. III (Sem- V)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. A. R. Marve** has carried out Project Work entitled **"Structure of Gills"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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Department of Zoology

Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.
Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Structure of Lungs"

Submitted by

Ku. B. L. Gandhi

B.Sc. III (Sem- V)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. B. L. Gandhi** has carried out Project Work entitled **"Structure of Lungs"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

HEAD
Department of Zoology
Adarsha Mahavidyalaya
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PRINCIPAL
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Regulation of Ventilation in Lungs"

Submitted by

Ku. B. V. Zatale

B.Sc. III (Sem- V)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. B. V. Zatale** has carried out Project Work entitled **"Regulation of Ventilation in Lungs"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Mechanism of Respiration"

Submitted by

Ku. K. R. Tupsundare

B.Sc. III (Sem- V)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. K. R. Tupsundare** has carried out Project Work entitled **"Mechanism of Respiration"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Haemoglobin"

Submitted by

Ku. M. M. Rafique

B.Sc. III (Sem- V)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. M. M. Rafique** has carried out Project Work entitled **"Haemoglobin"** successfully during the Session 2017-18 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

HEAD
Department of Zoology
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Concept of genes"

Submitted by:

Ku. S. F. KAISER

B.Sc. II (Sem-IV)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session:

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. S. F. Kaisar** has carried out Project Work entitled **"Concept of genes"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

HEAD
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Monohybrid Cross"

Submitted by:

Ku. A. M. Murtuza

B.Sc. II (Sem- IV)

Date of Submission:

Department of Zoology

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Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. A. M. Murtuza** has carried out Project Work entitled **"Monohybrid Cross"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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Topic

"Dihybrid Cross"

Submitted by

Mr. A. D. Itiwale

B.Sc. II (Sem- IV)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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CERTIFICATE

This is to certify that **Mr. A. D. Itiwale** has carried out Project Work entitled **"Dihybrid Cross"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Supplementary Factor"

Submitted by

Mr. A. M. Bhoyar

B.Sc. II (Sem- IV)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. A. M. Bhoyar** has carried out Project Work entitled **"Supplementary Factor"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Complementary Factor"

Submitted by

Mr. A. J. Raut

B.Sc. II (Sem- IV)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. A. J. Raut** has carried out Project Work entitled **"Complementary Factor"** successfully during the Session 2017-18 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Griffiths Transformation Experiment"

Submitted by
Ku. A. R. Marve

B.Sc. III (Sem- VI)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. A. R. Marve** has carried out Project Work entitled **"Griffiths Transformation Experiment"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Avery Experiment"

Submitted by

Ku. B. L. Gandhi

B.Sc. III (Sem- VI)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. B. L. Gandhi** has carried out Project Work entitled **"Avery Experiment"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Mutation Theory of De Vries"

Submitted by
Ku. B. V. Zatale

B.Sc. III (Sem- VI)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. B. V. Zatale** has carried out Project Work entitled **"Mutation Theory of De Vries"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Substitution Mutation"

Submitted by

Ku. K. R. Tupsundare

B.Sc. III (Sem- VI)

Date of Submission:

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2017-18

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. K. R. Tupsundare** has carried out Project Work entitled **"Substitution Mutation"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Frameshift Mutation"

Submitted by

Ku. M. M. Rafique

B.Sc. III (Sem- VI)

Date of Submission:

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Academic Session: 2017-18

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. M. M. Rafique** has carried out Project Work entitled **"Frameshift Mutation"** successfully during the Session 2017-18 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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Dhamangaon Rly.

2017-2018

A PROJECT REPORT ON

ELECTRONICS PAYMENT SYSTEM

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

SHRADDHA DESHEWAR

KAJAL SAKHARKAR

POOJA THAKRE

PALLAVI ALONE

PRANITA PANDE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2017-18

Scanned with CamScanner

CERTIFICATE

This is to certify that **SHRADDHA DESHEWAR,KAJAL SAKHARKAR,POOJA THAKRE,PALLAVI ALONE, PRANITA PANDE** successfully completed the project titled **"ELECTRONICS PAYMENT SYSTEM"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

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DHAMANGAON Rly.

Scanned with CamScanner

A PROJECT REPORT ON

E-BANKING IN INDIA

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

GAYATRI KADU

AARTI SAWARKAR

PRIYA KAKDE

AMRUTA WAKODE

SHUBHAM KALE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2017-18

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CERTIFICATE

This is to certify that **GAYATRI KADU, AARTI SAWARKAR, PRIYA KAKDE AMRUTA WAKODE, SHUBHAM KALE** have successfully completed the project titled" **E-BANKING IN INDIA"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

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A PROJECT REPORT ON

E-Banking

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

NIKITA ROY

KAJAL YADAV

KALYANI THOSAR

DIPALI VAIDYA

CHATALI THAVKAR

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2017-18

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CERTIFICATE

This is to certify that **NIKITA ROY, KAJAL YADAV, KALYANI THOSAR, DIPALI VAIDYA, CHATALI THAVKAR** have successfully completed the project titled **" E-Banking"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

e-Auction in India

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

SNEHAL MARDANE

SURAKSHA BHONGE

SHILPA RAJANKAR

RANI KHADE

HEMANT THAKARE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2017-18

Scanned with CamScanner

CERTIFICATE

This is to certify that **SNEHAL MARDANE, SURAKSHA BHONGE, SHILPA RAJANKAR, RANI KHADE, HEMANT THAKARE** have successfully completed the project titled **" e-Auction in India"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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DHAMANGAON Rly.

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A PROJECT REPORT ON

e-Banking

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

DARSHAN GODBOLE

PUNAM DANI

DINESH MAHATME

AMOL NIRBATE

MANOJ MESHRAM

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

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Dhamangaon, Amravati.

2017-18

Scanned with CamScanner

CERTIFICATE

This is to certify that **DARSHAN GODBOLE, PUNAM DANI, DINESH MAHATME, AMOL NIRBATE, MANOJ MESHRAM** have successfully completed the project titled **" E-banking"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

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18-19 CHEM SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Geometrical Isomerism

By

Miss. Sakshi S. Mohod

Miss. Nutan B. Lawankar

Miss. Piyusha Kalbande

Miss. Hema Jagtap

Miss. Poonam Bhansali

B. Sc. II (Sem. III)

Date of submission – *24th Sept.2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.III) during the session 2018-2019.

Miss. Sakshi S. Mohod

Miss. Nutan B. Lawankar

Miss. Piyusha Kalbande

Miss. Hema Jagtap

Miss. Poonam Bhansali

Project Topic:

Geometrical Isomerism

Signature of Teacher in charge

Date-

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya,
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Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Terms to express concentration

By

1) Miss. Rachana R. Sharma

2) Miss. Vaishnavi S. Hiwarkar

3) Miss. Pratiksha G. Tarpe

4) Miss. Riddhi V. Bhande

B. Sc. II (Sem. III)

Date of submission – *24th Sept.2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.III) during the session 2018-2019.

1) Miss. Rachana R. Sharma
2) Miss. Vaishnavi S. Hiwarkar
3) Miss. Pratiksha G. Tarpe
4) Miss. Riddhi V. Bhande

Project Topic:

Terms to express concentration

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge

Date- 26-09-2018

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Conformational Isomerism

Submitted by

1) Aakansha S. Chaudhri.

2) Mansi L. Ranit.

3) Prerana S. Kharapkar.

4) Pratiksha V. Yesankar.

5) Pratiksha R. Thakare.

B. Sc. II (Sem. III)

Date of submission – 24 sept 2018

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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1) Aakansha S. Chaudhari

2)Mansi L. Ranit

3) Prerana S. Kharapkar

4) Pratiksha V. Yesankar

5) Pratiksha R. Thakare

Project Topic:

" CONFORMATIONAL ISOMERISM "

Signature of Teacher incharge

Date- 24 - 09 - 2018

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jahramdan Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

CHEMISTRY OF CO

By

1) Mr. Mahesh G. Mundane

2) Mr. Ashutosh S. Bavaskar

3) Mr. Abhishek N. Jadhav

B. Sc. II (Sem. III)

Date of submission – *24th September 2018*

Department of chemistry

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

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1) Mr. Mahesh G. Mundane

2) Mr. Ashutosh S. Bavaskar

3) Mr. Abhishek N. Jadhav

Project Topic: Chemistry of CO

Principal
Adarsha Science ,
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge

Date- 24th September 2018

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Redox Titration

By

1) Sagar Gajanan Sontakke

2) Mayur Onkar Titare

3) Himanshu Shrikant Shende

4) Owes Raheman Mugal

B. Sc. II (Sem. III)

Date of submission – *24th Sept.2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.III) during the session 2018-2019.

1) Sagar Gajanan Sontakke

2)Mayur Onkar Titare

3) Himanshu Shrikant Shende

4) Owes Raheman Mugal

Project Topic:- Redox Titration

Signature of Teacher in charge

Date- 24/09/2018

Head
Department Of Chemistry
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

18-19 CHEM SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Biofuels

By

1) Jayashree R. Yende

2) Samurddhi V. Mahalle

3) Vaishnavi S. Chandak

4) Vaishnavi V. Rannaware

5) Zarin Fatema Z. Deshmukh

B. Sc. II (Sem. IV)

Date of submission – 28th Feb 2019

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2018-2019.

1) Jayashree R. Yende

2) Samurddhi V. Mahalle

3) Vaishnavi S. Chandak

4) Vaishnavi V. Rannaware

5) Zarin Fatema Z. Deshmukh

Project Topic:
Biofuels

Signature of Teacher in charge

Date- 22-02-19.

Head
Department of Chemistry
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Elevation in Boiling Point

By

1) Nutan B. Lawankar

2) Sakshi S. Mohod

3) Piyusha D. Kalbande

4) Hema S. Jagtap

B. Sc. II (Sem. IV)

Date of submission – *04th Feb.2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2018-2019.

1) Nutan B. Lawankar

2) Sakshi S. Mohod

3) Piyusha D. Kalbande

4) Hema S. Jagtap

Project Topic: Elevation in Boiling Point

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge

Date- 06.02.2019

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Project on

Diazonium salt

By

1) AasiyaParveen S. Husain

2)Aishwarya S. Kale

3) Anushri D. Nagpure

4) Aparna D.Uike

5) Nikita P. Jadhao

B. Sc. II (Sem.IV)

Date of submission –*04-02-2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2018-2019.

1) Aasiya Parveen S. Husain

2)Aishwarya S. Kale

3) Anushri D. Nagpure

4) Aparna D. Uike

5) Nikita P. Jadhao

Project Topic : Diazonium Salt

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commers Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in-charge

Date- 04-02-2019

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

METALLURGY

By

1)Mr. Sagar G. Sontakke

2) Mr. Mayur O. Titare

3) Mr. Owes R. Mugal

4) Mr. Himanshu S. Shende

B. Sc. II(Sem. IV)

Date of submission – 28th *Feb 2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2018-2019.

Project topic: METALLURGY

1)Mr. Sagar G. Sontakke

2) Mr. Mayur O. Titare

3) Mr. Owes R. Mugal

4) Mr. Himanshu S. Shende

Signature of Teacher in charge

Date-28/02/2019

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Head
Department of Chemistry

Principal
Adarsha Science
Jahrmdas Rhegchand Arts
Birla Commers Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Bragg's Equation and experimental method

By

1) Abhishek N. Jadhav
2) Mahesh G. Mundane
3) Ashutosh S. Bavaskar

B. Sc. II (Sem. IV)
Date of submission – 28th Feb 2019

Department of chemistry

Adarsha Science J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

Adarsha Science J. B. Arts and Birla commerce Mahavidyalaya

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DEPARTMENT OF CHEMISTRY

Certificate

This is to certify the project work submitted in this report has been carried out by following students of B. Sc. II (sem IV) during the session 2019-2020.

1) Abhishek N. Jadhav
2) Mahesh G. Mundane
3) Ashutosh S. Bavaskar

Project topic:

Bragg's Equation and experimental method

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge

Date- 26/02/19

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla
Commerce Mahavidyalaya,
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Head
Department of chemistry

18-19 CHEM SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic-Sidgwick's Electronic Interpretation and EAN Rule

By

1) Ku. AafreenJahan

2) Ku. SumaiyaFirdous

3)Ku. HarshadaS. Thakare

4) Ku. Harshita P. Shriwas

5) Prajkta U. Naik

B. Sc. III (Sem.V)

Date of submission – 24/9/18

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III(Sem.V) during the session 2018-2019.

1) Ku. AafreenJahan

2) Ku. SumaiyaFirdous

3) Ku. Harshada S. Thakare

4) Ku. Harshita P. Shriwas

5) Prajkta U. Naik

Project Topic:Sidgwick's Electronic Interpretation and EAN Rule

Signature of Teacher inchargeHead

Date- 19/9/18 **Department of Chemistry**

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commers Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

CRYSTAL FIELD THEORY

By

1) Ms. Veeral S. Chandarana

2) Ms. Suvidha N.Thakare

3) Ms. Tejaswini A. Kaikade

4) Ms. Saloni V. Baghel

5) Ms. Monali D. Budhlani

B. Sc. III(Sem. V)

Date of submission – *24th Sept. 2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2018-2019.

1) Ms. Veeral S. Chandarana

2) Ms. Suvidha N.Thakare

3) Ms. Tejaswini A. Kaikade

4) Ms. Saloni V. Baghel

5) Ms. Monali D. Budhlani

Project Topic: Crystal Field Theory

Signature of Teacher incharge

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Head

Date- 24.09.18

Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Chemistry Of Organometalic Compound

By

1) Manisha S. Padole

2) Mayuri S. Mahajan

3) Monika M. Dive

4) Nikita A. Zade

5) Poonam D. Raghorte

B. Sc. III (Sem. V)

Date of submission –24 *Sept.2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya
Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2018-2019 .

1) Manisha S. Padole

2) Mayuri S. Mahajan

3) Monika M. Dive

4) Nikita A. Zade

5) Poonam D. Raghorte

Project Topic:

Chemistry Of Organometallic Compound

Principal
Adarsha Science
Late Shri Bhagchand Arts
Birla Commers Mahavidyalaya,
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Signature of Teacher incharge

Head

Department of Chemistry

Date- 24.09.18

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Fluorescence and Phosphorescence

By

1) Nikhil A. Manke

2) Pankaj A. Koram

3) Sagar G. Chamlate

4) Swapnil P. Bhurbhure

5) Vaibhav R. Dhansakar

B. Sc. III (Sem. V)

Date of submission – *24th Sept.2018*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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1) Nikhil A. Manke

2) Pankaj A. Koram

3) Sagar G. Chamlate

4) Swapnil P. Bhurbhure

5) Vaibhav R. Dhansakar

Project Topic:

Fluorescence and Phosphorescence

Signature of Teacher in charge

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Head
Department of Chemistry

Date- 24-09-2018

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Application of Chelates in Analytical Chemistry

By

1) Miss Mithila V. Jadhao
2) Miss Parul V. Rathi
3) Miss Pooja S. Mandokar
4) Miss Radha K. Supalkar
5) Miss Nikita G. Chaudhari

B. Sc. III (Sem. V)

Date of submission –24/09/2018

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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1) Miss. Mithila V. Jadhao
2) Miss. Parul V. Rathi
3) Miss. Pooja S. Mandokar
4) Miss. Radha K. Supalkar
5) Miss. Nikita G. Chaudhari

Project Topic: Application of Chelates in Analytical Chemistry

Signature of Teacher incharge

Date- 24/09/2018

Head

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

18-19 CHEM SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

" PLASTIC WASTE MANAGMENT "

Submitted By

1) Miss. Rajkamal V. Thakare

2) Miss. Priya S. Thakare

3) Miss. Renuka R. Tale

4) Miss. Vaishnavi D. Ingle

5) Miss. Indrayani .Jichkar

B. Sc. III (Sem. VI)

Date of submission – ***Feb. 2019***

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2018-2019.

1) Miss. Rajkamal V. Thakare
2) Miss. Priya S. Thakare
3) Miss. Renuka R. Tale
4) Miss. Vaishnavi D. Ingle
5) Miss. Indrayani .Jichkar

Project Topic

" PLASTIC WASTE MANAGMENT "

Signature of Teacher incharge

Date-28/02/2019

Head

Department of Chemistry

Principal
Adarsha Science
Jaiswardas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON (Rly.)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Biofertilizers

By

1) Shreyasti H. Padole
2) Mrunal K. Bhoge
3) Damini K. Chaudhari
4) Snehal Talware

B. Sc. III (Sem. VI)
Date of submission – 28th Feb 2019

Department of chemistry
Adarsha Science J. B. Arts and Birla commerce Mahavidyalaya
Dhamangaon (Rly)

Adarsha Science J. B. Arts and Birla commerce Mahavidyalaya

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DEPARTMENT OF CHEMISTRY

Certificate

This is to certify the project work submitted in this report has been carried out by following students of B. Sc. III (sem VI) during the session 2018-2019.

1) Shreyasti H. Padole
2) Mrunal K. Bhoge
3) Damini K. Chaudhari
4) Snehal Talware

Project topic:

Biofertilizers

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge **Head**

Date- 28/02/2019 **Department of chemistry**

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

ORGANOMETALLIC COMPOUND

By

1)Ms. Veeral S. Chandarana

2) Ms. Suvidha N.Thakare

3) Ms. Tejaswini A. Kaikade

4) Ms. Saloni V.Baghel

5) Ms. MonaliD. Budhlani

B. Sc. III(Sem. VI)

Date of submission –28*Feb 2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2018-2019.

1)Ms. Veeral S. Chandarana

2) Ms. SuvidhaN.Thakare

3) Ms. TejaswiniA.Kaikade

4) Ms. Saloni V.Baghel

5) Ms. Monali D.Budhlani

Project topic: Organometallic compound

Signature of Teacher in charge

Date- 26-02-19

Head

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Metal carbonyl

By

1) Miss. Rashmita Bodalkar

2) Miss. Kunjan Chandure

3) Miss.Vaishnavi Patil

4) Miss. Meenakshi Harge

5) Miss. Vaishnavi Pabble

B. Sc. III (Sem. VI)

Date of submission –*11th Feb.2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2018-2019.

1) Miss. Rashmita Bodalkar

2) Miss. Kunjan Chandure

3) Miss.Vaishnavi Patil

4) Miss. Meenakshi Harge

5) Miss. Vaishnavi Pabble

Project Topic: Metal carbonyl

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commers Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher in charge **Head**

Date- 11.02.19 **Department of Chemistry**

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commers Mahavidyalaya,
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project submission as a part of internal assessment)



Title of Project: -NMR spectroscopy.

By

Mr.Akshay P. Kombe

Mr.Aditya A. Shelokar

Mr.Akshay M. Bhoyar

Mr.Aniket J. Rout

B. Sc. III (Sem.VI)

Date of submission – 28-02-2019

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidhyala, Dhamangaon (Rly)

Department of chemistry

CERRIFICATE

THIS IS TO CERTIFY THAT THE PROJECT WORK SUBMITTED IN THIS REPORT HAS BEEN CARRIED BY

Mr.Akshay P. Kombe

Mr.Aditya A. Shelokar

Mr.Akshay M. Bhoyar

Mr.Aniket J. Rout

BSc III(SEM-VI)

Title of Project:-NMR spectroscopy.

Signature of Teacher in charge

Date 25/02/19

Head

Department of Chemistry

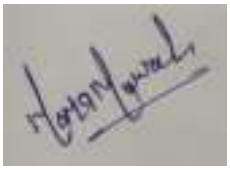
Principal
Adarsha Science
Jaisundas Bhagchand Arts
Birla Commers Mahavidyalay

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **AACHAL R. THOOL** has carried out Project Work entitled " Image Processing **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ACHAL P. RAJANKAR** has carried out Project Work entitled " Image Processing **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ANKITA A. WAGHMARE** has carried out Project Work entitled " Image Processing **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

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Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ARATI V. ZADE** has carried out Project Work entitled " Mobile Wallet with Merchant Payment **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Image Processing

-:SUBMITTED BY:-

AACHAL R. THOOL

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Image Processing

-:SUBMITTED BY:-

ACHAL P. RAJANKAR

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Image Processing

-:SUBMITTED BY:-

ANKITA A. WAGHMARE

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

-:SUBMITTED BY:-

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Mobile Wallet with Merchant Payment

-:SUBMITTED BY:-

ARATI V. ZADE

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **AACHAL R. THOOL** has carried out Project Work entitled " Internet of Things(IOT) **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ACHAL P. RAJANKAR** has carried out Project Work entitled " Internet of Things(IOT) **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ANKITA A. WAGHMARE** has carried out Project Work entitled " Internet of Things(IOT) **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that has carried out Project Work entitled " " successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ARATI V. ZADE** has carried out Project Work entitled " Big Data **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Internet of Things(IOT)

-:SUBMITTED BY:-

AACHAL R. THOOL

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Internet of Things(IOT)

-:SUBMITTED BY:-

ACHAL P. RAJANKAR

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Internet of Things(IOT)

-:SUBMITTED BY:-

ANKITA A. WAGHMARE

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

-:SUBMITTED BY:-

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Big Data

-:SUBMITTED BY:-

ARATI V. ZADE

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Aafrin S.A.** has carried out Project Work entitled " Credit Card Reader with Face recognition **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mariya Husain** has carried out Project Work entitled " Credit Card Reader with Face recognition **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Shubdha Dhakulkar** has carried out Project Work entitled " Credit Card Reader with Face recognition **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Amit Dambale** has carried out Project Work entitled " E-Governance **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avil Chitukane** has carried out Project Work entitled " E-Governance **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Credit Card Reader with Face recognition

-:SUBMITTED BY:-

Aafrin S.A.

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Credit Card Reader with Face recognition

-:SUBMITTED BY:-

Mariya Husain

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Credit Card Reader with Face recognition

-:SUBMITTED BY:-

Shubdha Dhakulkar

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

E-Governance

-:SUBMITTED BY:-

Amit Dambale

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

E-Governance

-:SUBMITTED BY:-

Avil Chitukane

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Aafrin S.A.** has carried out Project Work entitled " Google Map **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mariya Husain** has carried out Project Work entitled " Google Map **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Shubdha Dhakulkar** has carried out Project Work entitled " Google Map **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Amit Dambale** has carried out Project Work entitled " Google Class Room **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avil Chitukane** has carried out Project Work entitled " Google Class Room **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Map

-:SUBMITTED BY:-

Aafrin S.A.

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Map

-:SUBMITTED BY:-

Mariya Husain

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Map

-:SUBMITTED BY:-

Shubdha Dhakulkar

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Class Room

-:SUBMITTED BY:-

Amit Dambale

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Class Room

-:SUBMITTED BY:-

Avil Chitukane

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

18-19 ELECTRONICS SEM VI

A

Project Report

On

"Automatic Street Light"



Guided By

Dr. Y.B.Gandole
(Principal)
Adarash Science J.B.Arts And Birla
Commerce Mahavidyalaya
Dhamangaon Rly

Prof. S.A.Rodge
H.O.D. Dept. Of Electronics
Adarash Science J.B.Arts And Birla
Commerce Mahavidyalaya
Dhamangaon Rly

Shri. G.B.Kumare

Submitted by

Miss. Nisha P. Kadu

Miss. Aarti C. Gathe

Miss. Akansha S. Sahu

Mr. Pratik S. Deshmukh

(B.Sc.-III Sem-VI)

Department Of Electronics

Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya

Dhamangaon Rly.

2018-19

CERTIFICATE

This is to certify that the project work entitled Automatic Street Light. ***This is being Submitted by***

Miss. Nisha P. Kadu

Miss. Aarti C. Gathe

Miss. Akansha S. Sahu

Mr. Pratik S. Deshmukh

In Partial Fulfilment of the requirement for award of Bachelor of science in electronic (Instrumentation) from Sant Gadge Baba Amravati University, Amravati during academic session 2018-2019 is the record of their own work. Certified that they carry out this work under the guidance and to our satisfaction.

Dr. Y.B.Gandole
(Principal)
Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya Dhamangaon Rly

Prof. S.A.Rodge
H.O.D. Dept. Of Electronics
Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya Dhamangaon Rly

Department Of Electronics
Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya
Dhamangaon Rly
2018-19

A

Project Report

On

"Metal Detector"



Guided By

Dr. Y.B.Gandole
(Principal)

Prof. S.A.Rodge
H.O.D. Dept. Of Electronics

Adarash Science J.B.ArtsAnd Birla Adarash Science J.B.Arts And Birla
Commerce MahavidyalayaCommerce Mahavidyalaya
Dhamangaon Rly Dhamangaon Rly

Shri .G.B.Kumare

Submitted by

Mr.VighneshC.Madavi

Mr . Pratik D. Deshmukh

Mr.Khushal C. Dasarwar

Mr.Sarvesh K. Pahade

(B.Sc.-IIISem.-VI)

Department Of Electronics

Adarash Science J.B.ArtsAnd Birla Commerce Mahavidyalaya

Dhamangaon Rly.

2018-19

CERTIFICATE



This is to certify that the project work entitled "Metal Detector" ***This is being Submitted by***

Mr.VighneshC.Madavi

Mr . Pratik D. Deshmukh

Mr.Khushal C. Dasarwar

Mr.Sarvesh K. Pahade

In Partial Fulfilment of the requirement for award of Bachelor of science in electronic (Instrumentation) from SantGadge Baba Amravati University, Amravati during academic session2018-2019 is the record of their own work.Certified that they carry out this work under the guidance and toour satisfaction.

Dr. Y.B.Gandole
(Principal)

Prof. S.A.Rodge
H.O.D. Dept. Of Electronics

Adarash Science J.B.ArtsAnd Birla Commerce MahavidyalayaDhamangaon Rly

Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya Dhamangaon Rly

Department Of Electronics

Adarash Science J.B.ArtsAnd Birla Commerce Mahavidyalaya

Dhamangaon Rly

2018-19

Project Report

On

"Automatic Fan Controller"

Guided By

Dr. Y.B.Gandole
(Principal)

Prof. S.A.Rodge
H.O.D. Dept. Of Electronics

Shri .G. B.Kumare

Submitted by

Miss. Prajakta P. Sakharkar

Miss. Vidya O. Pimpale

Miss. Gauri D. Vairagade

Miss. Vishakha G. Mundane

(B.Sc.-III Sem.-VI)

Department Of Electronics

Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya

Dhamangaon Rly.

2018-19

CERTIFICATE



This is to certify that the project work entitled "Automatic Fan Controller***" this is being Submitted by***

Miss. Prajakta P. Sakharkar

Miss. Vidya O. Pimpale

Miss. Gauri D. Vairagade

Miss. Vishakha G. Mundane

In Partial Fulfilment of the requirement for award of Bachelor of science in electronic (Instrumentation) from Sant Gadge Baba Amravati University, Amravati during academic session 2018-2019 is the record of their own work. Certified that they carry out this work under the guidance and to our satisfaction.

Dr. Y.B.Gandole
(Principal)
Adarash Science J.B.Arts And Birla Birla Commerce Mahavidyalaya Dhamangaon Rly

Prof. S.A.Rodge
H.O.D. Dept. Of Electronics
Adarash Science J.B.Arts And Commerce Mahavidyalaya Dhamangaon Rly

Department Of Electronics

Adarash Science J.B.Arts And Birla Commerce Mahavidyalaya

Dhamangaon Rly

2018-19

18-19 ELECTRONICS MSC SEM IV

A

Project Report

On

"SIMPLE WATER LEVEL INDICATOR SYSTEM USING TRANSISTORS"

Submitted to

Sant Gadge Baba Amravati University, Amravati

In recognition to fulfillment of the requirement for the award of degree in

MASTER OF SCIENCE
IN
ELECTRONICS

By

Miss. Ankita Lalchand Gupta

Under the Guidance of

Prof. S.A.Rodge

(Head of Department & Associate Professor)

DEPARTMENT OF ELECTRONICS

ADARSHA SCIENCE, J.B. ARTS &
BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY.

2018-2019

DEPARTMENT OF ELECTRONICS

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY.

2018-2019



Certificate

This is to certify that the project entitled **"Simple Water Level Indicator System Using Transistors"** which is being submitted to **Sant Gadge Baba Amravati University** herewith for the partial fulfillment for the award of the degree of **"Master of Science in Electronics"** by Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by **Miss. Ankita Lalchand Gupta** under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.

Dr.Y.B.GANDOLE
Principal

PROF.S.A.RODGE
Guide & H.O.D

.....
External Examiner

.....
Internal Examiner

A

PROJECT REPORT

ON

"COIN BASED MOBILE CHARGER SYSTEM"

Submitted To

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

For the degree of

MASTER OF SCIENCE

IN

ELECTRONIC INSTRUMENTATION

Submitted By

MS. CHANCHAL P. KATKAR

MS. APURVA S. BODADE



PROF. DR.Y.B.GANDOLE

PRINCIPAL

Adarsha Science, Jairamdas Bhagchand
Arts & Birla Commerce Mahavidyalaya,
Dhamangaon (Rly)

PROF. S. A. RODGE

HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand
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P.G. Department of Electronics Instrumentation

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY), DIST. AMRAVATI

2018-2019

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY), DIST. AMRAVATI

2018-2019

P.G. Department of Electronics Instrumentation

Certificate

This is to certify that the project entitled ***"COIN BASED MOBILE CHARGER SYSTEM"*** *which is being submitted to* ***Sant Gadge Baba Amravati University*** *herewith for the partial fulfillment of the requirement for the award of the* ***'Degree of Master of Science'*** *in* ***'Electronics Instrumentation'*** *of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by* ***Ms. Chanchal P. Katkar & Ms. Apurva S. Bodade*** *under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.*

PROF. DR.Y.B.GANDOLE

PRINCIPAL

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HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

.....

External Examiner

A

PROJECT REPORT

ON

"MICROCONTROLLER BASED HAND GESTURE RECOGNITION SYSTEM USING FLEX SENSOR"

Submitted To

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

For the degree of

MASTER OF SCIENCE

IN

ELECTRONIC INSTRUMENTATION

Submitted By

MS. ARTI P. GOMASE

MS. PRIYANKA G. BABAR



PROF. DR.Y.B.GANDOLE

PRINCIPAL

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2018-2019

P.G. Department of Electronics Instrumentation

Certificate

This is to certify that the project entitled ***"MICROCONTROLLER BASED HAND GESTURE RECOGNITION SYSTEM USING FLEX SENSOR"*** *which is being submitted to* ***Sant Gadge Baba Amravati University*** *herewith for the partial fulfillment of the requirement for the award of the* ***'Degree of Master of Science'*** *in* ***'Electronics Instrumentation'*** *of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by* ***Ms. Arti P. Gomase & Ms. Priyanka G. Babar*** *under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.*

PROF. DR.Y.B.GANDOLE

PRINCIPAL

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Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

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External Examiner

A

PROJECT REPORT

ON

"SMART DUSTBIN FOR ECONOMIC GROWTH"

Submitted To

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

For the degree of

MASTER OF SCIENCE

IN

ELECTRONIC INSTRUMENTATION

Submitted By

MS. SNEHAL V. MALODE

MS. PRATIKSHA P. HADKE

MS. SWEETI J. THAKARE



PROF. DR.Y.B.GANDOLE

PRINCIPAL

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HOD DEPT. OF ELECTRONICS

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2018-2019

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2018-2019

P.G. Department of Electronics Instrumentation

Certificate

This is to certify that the project entitled ***"SMART DUSTBIN FOR ECONOMIC GROWTH"*** *which is being submitted to* ***Sant Gadge Baba Amravati University*** *herewith for the partial fulfillment of the requirement for the award of the* ***'Degree of Master of Science'*** *in* ***'Electronics Instrumentation'*** *of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by* ***Ms. Snehal V. Malode, Ms. Pratiksha P. Hadke & Ms. Sweeti J. Thakare*** *under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.*

PROF. DR.Y.B.GANDOLE

PRINCIPAL

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

PROF. S. A. RODGE

HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

.....

External Examiner

A

Project Report

On

"IOT Based Flammable Gas Monitoring System Using ESP32s for Underground Environment"

Submitted to

Sant Gadge Baba Amravati University, Amravati

In recognition to fulfillment of the requirement for the award of degree in

MASTER OF SCIENCE
IN
ELECTRONICS

By

Mr. Syed Ghause Ibrahim Syed Shakil Ibrahim

Mr. Tilak Surendra Jaiswal

Under the Guidance of

Prof. S.A.Rodge

(Head of Department & Associate Professor)



DEPARTMENT OF ELECTRONICS

ADARSHA SCIENCE, J.B. ARTS &
BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY.

2018-2019

DEPARTMENT OF ELECTRONICS

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY.

2018-2019

Certificate

This is to certify that the project entitled **"IOT Based Flammable Gas Monitoring System Using ESP32s for Underground Environment"** which is being submitted to **Sant Gadge Baba Amravati University** herewith for the partial fulfillment for the award of the degree of **"Master of Science in Electronics"** by Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by **Mr. Syed Ghause Ibrahim Syed Shakil Ibrahim and Mr. Tilak Surendra Jaiswal** under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.

Dr.Y.B.GANDOLE
Principal

PROF.S.A.RODGE
Guide & H.O.D

.....
External Examiner

.....
Internal Examiner

Project Report

On

"Implementation of OFDM System by using BCH Coding & Convolution Coding".

Submitted to

Sant Gadge Baba Amravati University, Amravati

In recognition to fulfillment of the requirement for the award of degree in

Master of Science in Electronics

Submitted By

Priti Wasudeo Pawade

Under the Guidance of

Prof. S.A.Rodge
(Head of Department & Associate Professor)



DEPARTMENT OF ELECTRONICS

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY.

2018-19

DEPARTMENT OF ELECTRONICS

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY.

2018-19

Certificate

This is to certify that the project entitled ***"Implementation of OFDM System by using BCH Coding & Convolution Coding".*** Which is being submitted to ***Sant Gadge Baba Amravati University*** herewith for the partial fulfillment for the award of degree of ***"Master of Science in Electronics"*** by Sant Gadge Baba Amravati University. This is the result of the project work and contribution by ***Priti Wasudeo Pawade*** under my supervision & guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma / examining body or university to the best of my knowledge and belief.

Prof. Dr. Y.B. Gandole
Principal

Prof. S.A. Rodge
Guide & HOD

External Examiner

Internal Examiner

18-19 MICRO SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Modes of DNA Replication

Submitted by

Ku. Aasiya P. S. Husain

B.Sc.II (Sem-III)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aasiya P. S. Husain has carried out Project Work entitled **"Modes of DNA Replication"** successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Mechanism of DNA Replication

Submitted by

Ku. Aishwarya S. Kale

B.Sc.II (Sem-III)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aishwarya S. Kale has carried out Project Work entitled **"Mechanism of DNA Replication"** successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

"Photoreactivation

Submitted by

Ku. Anushri D. Nagpure

B.Sc.II (Sem-III)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Anushri D. Nagpure has carried out Project Work entitled **"Photoreactivation"** successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

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Topic

“Characteristics of Genetic Code

Submitted by

Ku. Aparna D. Uike

B.Sc.II (Sem-III)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aparna D. Uike has carried out Project Work entitled **"Characteristics of Genetic Code"** successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
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Topic
“Transcription

Submitted by

Ku. Hema S. Jagtap

B.Sc.II (Sem-III)

Date of Submission: Winter 2018

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Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Hema S. Jagtap has carried out Project Work entitled **"Transcription"** successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
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18-19 MICRO SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Widal Test

Submitted by

Adarsh T. Upadhyay

B.Sc.II (Sem-IV)

Date of Submission: Summer 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Adarsh T. Upadhyay has carried out Project Work entitled **"Widal Test"** successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2019 **Department of Microbiology**

PRINCIPAL
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Antigenic Determinants

Submitted by

Aishwarya V.Shastrakar

B.Sc.II (Sem-IV)

Date of Submission: Summer 2019

Department of Microbiology

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Academic Session: 2018-19

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aishwarya V.Shastrakar has carried out Project Work entitled **"Antigenic Determinants"** successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2019 **Department of Microbiology**

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

"Ig G (Immunoglobulin G)

Submitted by

Anjali N. Funde

B.Sc.II (Sem-IV)

Date of Submission: Summer 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Anjali N. Funde has carried out Project Work entitled **"Ig G (Immunoglobulin G)"** successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2019 **Department of Microbiology**

PRINCIPAL
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

"Ig A (Immunoglobulin A)

Submitted by

Aparna S.Tarale

B.Sc.II (Sem-IV)

Date of Submission: Summer 2019

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Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aparna S.Tarale has carried out Project Work entitled **"Ig A (Immunoglobulin A)"** successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

“Ig M (Immunoglobulin M)

Submitted by

Apurva M.Pawar

B.Sc.II (Sem-IV)

Date of Submission: Summer 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Apurva M.Pawar has carried out Project Work entitled **"Ig M (Immunoglobulin M)"** successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2019 **Department of Microbiology**

PRINCIPAL
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Dhamangaon Rly.

18-19 MICRO SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Symbiotic Nitrogen Fixation

Submitted by

Aafreen Jahan S. Murtuza

B.Sc.III (Sem-V)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aafreen Jahan S. Murtuza has carried out Project Work entitled **"Symbiotic Nitrogen Fixation"** successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"Bioleaching

Submitted by

Akshay D. Itiwale

B.Sc.III (Sem-V)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Akshay D. Itiwale has carried out Project Work entitled **"Bioleaching"** successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
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& Birla Comm. Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Isotopic Tracer Technique

Submitted by

Akshay M. Bhoyar

B.Sc.III (Sem-V)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Akshay M. Bhoyar has carried out Project Work entitled **"Isotopic Tracer Technique"** successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

"Biodegradation Pesticides

Submitted by

Aniket J. Raut

B.Sc.III (Sem-V)

Date of Submission: Winter 2018

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2018-19

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aniket J. Raut has carried out Project Work entitled **"Biodegradation Pesticides"** successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

PRINCIPAL
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Air Sanitation

Submitted by

Bhaktee P. Shelotkar

B.Sc.III (Sem-V)

Date of Submission: Winter 2018

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Academic Session: 2018-19

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This is to certify that **Mr. / Miss**. Bhaktee P. Shelotkar has carried out Project Work entitled **"Air Sanitation"** successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2018 **Department of Microbiology**

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18-19 MICRO SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Penicillin

Submitted by

Aafreen Jahan S. Murtuza

B.Sc.III (Sem-VI)

Date of Submission: Summer 2019

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Academic Session: 2018-19

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CERTIFICATE

This is to certify that **Mr. / Miss**. Aafreen Jahan S. Murtuza has carried out Project Work entitled **"Industrial Production of Penicillin"** successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

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Topic

"Microbial Industrial Production of Cellulase

Submitted by

Akshay D. Itiwale

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Academic Session: 2018-19

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CERTIFICATE

This is to certify that **Mr. / Miss**. Akshay D. Itiwale has carried out Project Work entitled **"Microbial Industrial Production of Cellulase"** successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"Industrial Production of Beer

Submitted by

Akshay M. Bhoyar

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Academic Session: 2018-19

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CERTIFICATE

This is to certify that **Mr. / Miss**. Akshay M. Bhoyar has carried out Project Work entitled **"Industrial Production of Beer"** successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Date of Submission Summer 2019 **Department of Microbiology**

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Topic

"Industrial Production of Amylase (Bacterial)

Submitted by

Aniket J. Raut

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CERTIFICATE

This is to certify that **Mr. / Miss**. Aniket J. Raut has carried out Project Work entitled **"Industrial Production of Amylase (Bacterial)"** successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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18-19 MICRO MSC

A

Project on

"ANTIMICROBIAL ACTIVITY OF ACACIA NILOTICA ANGINST PATHOGENIC BACTERIA"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Miss. Shivani D. Jichkar

M. Sc. Part-II

Supervisor

Miss. S. P. Fadnavis

P. G. DEPARTMENT OF MICROBIOLOGY

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CERTIFICATE

This is to certify that the dissertation entitled, **"Antimicrobial Activity of Acacia Nilotica Anginst Pathogenic Bacteria"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Shivani D. Jichkar** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

Dr. V. A. Kamble
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A

Project on

"ENUMERATION OF COLIFORM OF BOTTLED WATER"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

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M. Sc. Part-II

Supervisor

Miss. S. V. Deshmukh

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CERTIFICATE

This is to certify that the dissertation entitled, **"Enumeration of Coliform of Bottled Water"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Dipali V. Hatwar** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

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A

Project on

"ECO FRIENDLY PRODUCTION OF INDOLE ACETIC ACID BY *BACILLUS SP.* ISOLATED FROM SOIL"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
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Submitted By

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CERTIFICATE

This is to certify that the dissertation entitled, **"Eco Friendly Production of Indole Acetic Acid by *Bacillus Sp.* Isolated from Soil"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Juhi R. Gupta** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

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A

Project on

"ANTIMICROBIAL ACTIVITY OF OCIMUM SANCTUM"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE

IN

MICROBILOGY

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M. sc. Part-II

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CERTIFICATE

This is to certify that the dissertation entitled **"Antimicrobial Activity of Ocimum Sanctum"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. U., Amravati has been prepared by Mr. Shubham A. Borgaonkar under my guidance and supervision. This work has not been submitted or any other degree of any other university in india or abroad.

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A

Project on

"ISOLATION AND IDENTIFICATION OF *AZOTOBACTER* FROM SOIL SAMPLES"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Miss. Dhanashri D. Rohankar

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CERTIFICATE

This is to certify that the dissertation entitled, **"Isolation and Identification of *Azotobacter* from Soil Samples"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Dhanashri D. Rohankar** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

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18-19 PHY SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Construction and application of Temperature sensor"

Submitted by

ANJALI A. BAHURUPI
ANKITA R. CHOUDHARI
ANKITA S. HARSODKAR
CHAITALI J. TAORI

B.Sc. II (Sem-III)

Date of Submission: 29/09/2018

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Academic Session: 2018-19

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. ANJALI A. BAHURUPI, ANKITA R. CHOUDHARI, ANKITA S. HARSODKAR, CHAITALI J. TAORI** have carried out Project Work entitled **"Construction and application of Temperature sensor"** successfully during the Session 2018-19for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Study of Wave particle duality"

Submitted by

CHAITALI V. KELODE
GAYATRI K. MORE
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B.Sc. II (Sem-III)

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Study of water Jet packet"

Submitted by

KOMAL B. LAHOTI

MAYURI D. SURJUSE

NIKITA D. CHAKOLE

PRAGATI D. DUDHE

B.Sc. II (Sem-III)

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This is to certify that **Mr. / Miss. KOMAL B. LAHOTI, MAYURI D. SURJUSE, NIKITA D. CHAKOLE, PRAGATI D. DUDHE** have carried out Project Work entitled **"Study of water Jet packet"** successfully during the Session 2018-19for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"Sensitive Intruder Alarm Circuit"

Submitted by

REENA V. GAYAKWAD
SAMIKSHA P. PANPALIYA
SHRUTIKA R. TALE
SHUBHANGI R. SHIRBHATE

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This is to certify that **Mr. / Miss. REENA V. GAYAKWAD, SAMIKSHA P. PANPALIYA, SHRUTIKA R. TALE, SHUBHANGI R. SHIRBHATE** have carried out Project Work entitled **"Sensitive Intruder Alarm Circuit"** successfully during the Session 2018-19for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

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Topic

"Transistor Amplifier Circuit-12 Watts"

Submitted by

SIDDHI V. BHANDE
VRUTTIKA R. BHILKAR
MAHESH G. MUNDANE
PRIYANKA A. KUKSE

B.Sc. II (Sem-III)

Date of Submission: 29/09/2018

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This is to certify that **Mr. / Miss. SIDDHI V. BHANDE, VRUTTIKA R. BHILKAR, MAHESH G. MUNDANE, PRIYANKA A. KUKSE** have carried out Project Work entitled **"Transistor Amplifier Circuit-12 Watts"** successfully during the Session 2018-19for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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18-19 PHY SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Optical/Acoustic Metamaterials"

Submitted by

ANJALI A. BAHURUPI
ANKITA R. CHOUDHARI
ANKITA S. HARSODKAR
CHAITALI J. TAORI

B.Sc. II (Sem-IV)

Date of Submission: 14/03/2019

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Academic Session: 2018-19

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CERTIFICATE

This is to certify that **Mr. / Miss. ANJALI A. BAHURUPI, ANKITA R. CHOUDHARI, ANKITA S. HARSODKAR, CHAITALI J. TAORI** have carried out Project Work entitled **"Optical/Acoustic Metamaterials"** successfully during the Session 2018-19 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"Solar Outdoor Air Purifier"

Submitted by

CHAITALI V. KELODE

GAYATRI K. MORE

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CERTIFICATE

This is to certify that **Mr. / Miss. CHAITALI V. KELODE, GAYATRI K. MORE, HARSHA A. SALAME, JUHI P. RAGHUWANSHI** have carried out Project Work entitled **"Solar Outdoor Air Purifier"** successfully during the Session 2018-19 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"Optical Atomic Clock"

Submitted by

KOMAL B. LAHOTI
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Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2018-19

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. KOMAL B. LAHOTI, MAYURI D. SURJUSE, NIKITA D. CHAKOLE, PRAGATI D. DUDHE** have carried out Project Work entitled **"Optical Atomic Clock"** successfully during the Session 2018-19 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 14/03/2019

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Optical Metrology"

Submitted by

REENA V. GAYAKWAD
SAMIKSHA P. PANPALIYA
SHRUTIKA R. TALE
SHUBHANGI R. SHIRBHATE

B.Sc. II (Sem-IV)

Date of Submission: 14/03/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2018-19

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. REENA V. GAYAKWAD, SAMIKSHA P. PANPALIYA, SHRUTIKA R. TALE, SHUBHANGI R. SHIRBHATE** have carried out Project Work entitled **"Optical Metrology"** successfully during the Session 2018-19 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 14/03/2019

Signature of Teacher in-charge
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Laser Ignition System"

Submitted by

SIDDHI V. BHANDE
VRUTTIKA R. BHILKAR
MAHESH G. MUNDANE
PRIYANKA A. KUKSE

B.Sc. II (Sem-IV)

Date of Submission: 14/03/2019

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Academic Session: 2018-19

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. SIDDHI V. BHANDE, VRUTTIKA R. BHILKAR, MAHESH G. MUNDANE, PRIYANKA A. KUKSE** have carried out Project Work entitled **"Laser Ignition System"** successfully during the Session 2018-19 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 14/03/2019

Signature of Teacher in-charge
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18-19 PHY SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Quantum computing"

Submitted by

ASHWINI G. FARKADE
NIKHIL A. MANKE
NITIKSHA S. GAWANDE

B.Sc. III (Sem-V)

Date of Submission: 29/09/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2018-2019

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Ashwini G. Farkade, Nikhil A. Manke, Nitiksha S. Gawande** have carried out Project Work entitled **"Quantum computing"** successfully during the Session 2018-19 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

Signature of Teacher in-charge

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Adarsha Science, J.B. Arts &
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Quantum dots"

Submitted by

PANKAJ A. KORAM

PRAJAKTA A. DUBE

PRANJALI A. JAGTAP

B.Sc. III (Sem-V)

Date of Submission: 29/09/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2018-2019

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Pankaj A. Koram, Prajakta A. Dube, Pranjali A. Jagtap** have carried out Project Work entitled **"Quantum dots"** successfully during the Session 2018-19 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

Signature of Teacher in-charge

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Department of Physics

(Dr. Y. B. Gandole)
Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Big bang model of elementary particles"

Submitted by

PRIYANKA M. SAWALKAR
RENUKA D. VAIRALE
SAGAR G. CHAMLATE

B.Sc. III (Sem-V)

Date of Submission: 29/09/2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Priyanka M. Sawalkar, Renuka D. Vairale, Sagar G. Chamlate** have carried out Project Work entitled **"Big bang model of elementary particles"** successfully during the Session 2018-19 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Raman Spectroscopy"

Submitted by
SHIVANI C. RONGHE
SWAPNIL P. BHURBHURE
VAIBHAV R. DHANASKAR

B.Sc. III (Sem-V)

Date of Submission: 29/09/2018

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Shivani C. Ronghe, Swapnil P. Bhurbhure, Vaibhav R. Dhanaskar** have carried out Project Work entitled **"Raman Spectroscopy"** successfully during the Session 2018-19 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

Signature of Teacher in-charge

Head
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Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Development in Nuclear Fusion"

Submitted by

VRUSHALI V. GULHANE
ANUSHRI DIWANE
RAKSHA D. INGOLE

B.Sc. III (Sem-V)

Date of Submission: 29/09/2018

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Vrushali V. Gulhane, Anushri Diwane, Raksha D. Ingole** have carried out Project Work entitled **"Development in Nuclear Fusion"** successfully during the Session 2018-19 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 29/09/2018

Signature of Teacher in-charge

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18-19 PHY SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Liquid Crystals"

Submitted by
ASHWINI G. FARKADE
NIKHIL A. MANKE
NITIKSHA S. GAWANDE

B.Sc. III (Sem-VI)

Date of Submission: 11/03/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2018-2019

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Ashwini G. Farkade, Nikhil A. Manke, Nitiksha S. Gawande** have carried out Project Work entitled **"Liquid Crystals"** successfully during the Session 2018-19 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 11/03/2019

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Josephson Effect"

Submitted by

PANKAJ A. KORAM

PRAJAKTA A. DUBE

PRANJALI A. JAGTAP

B.Sc. III (Sem-VI)

Date of Submission: 11/03/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2018-2019

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Pankaj A. Koram, Prajakta A. Dube, Pranjali A. Jagtap** have carried out Project Work entitled **"Josephson Effect"** successfully during the Session 2018-19 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 11/03/2019

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Physical Method of Synthesis of Nanoparticles"

Submitted by

PRIYANKA M. SAWALKAR

RENUKA D. VAIRALE

SAGAR G. CHAMLATE

B.Sc. III (Sem-VI)

Date of Submission: 11/03/2019

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Priyanka M. Sawalkar, Renuka D. Vairale, Sagar G. Chamlate** have carried out Project Work entitled **"Physical Method of Synthesis of Nanoparticles"** successfully during the Session 2018-19 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 11/03/2019

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Bose Einstein Condensation"

Submitted by

SHIVANI C. RONGHE
SWAPNIL P. BHURBHURE
VAIBHAV R. DHANASKAR

B.Sc. III (Sem-VI)

Date of Submission: 11/03/2019

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Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Shivani C. Ronghe, Swapnil P. Bhurbhure, Vaibhav R. Dhanaskar** have carried out Project Work entitled **"Bose Einstein Condensation"** successfully during the Session 2018-19 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 11/03/2019

Signature of Teacher in-charge

Head
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Head Of Physics Dept.
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Superconductors in Transportation"

Submitted by

VRUSHALI V. GULHANE

ANUSHRI DIWANE

RAKSHA D. INGOLE

B.Sc. III (Sem-VI)

Date of Submission: 11/03/2019

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Vrushali V. Gulhane, Anushri Diwane, Raksha D. Ingole** have carried out Project Work entitled **"Superconductors in Transportation"** successfully during the Session 2018-19 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 11/03/2019

Signature of Teacher in-charge

Head
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Principal

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18-19 ZOO SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"EXCRETORY ORGANS IN AMPHIOXUS"

Submitted by
AASIYA HUSAIN
B.Sc. II (Sem-III)

Date of Submission: 03.11.2018

Department of Zoology

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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. AASIYA HUSAIN has carried out Project Work entitled "EXCRETORY ORGANS IN AMPHIOXUS" successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:03.11.2018

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"MIGRATION IN FISHES"

Submitted by
AISHWARYA S. KALE
B.Sc. II (Sem-III)

Date of Submission: 03.11.2018

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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. AISHWARYA S. KALE has carried out Project Work entitled "MIGRATION IN FISHES" successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:03.11.2018

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"EVOLUTION OF MAN"

Submitted by
ANUSHRI D. NAGPURE
B.Sc. II (Sem-III)

Date of Submission: 03.11.2018

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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. ANUSHRI D. NAGPURE has carried out Project Work entitled "EVOLUTION OF MAN" successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
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Dhamangaon Rly.

Date of Submission:03.11.2018

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"LIVING FOSSILS"

Submitted by
APARNA D. UIKE
B.Sc. II (Sem-III)

Date of Submission: 03.11.2018

Department of Zoology

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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. APARNA D. UIKE has carried out Project Work entitled "LIVING FOSSILS" successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:03.11.2018

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"HABIT AND HABITAT OF AMPHIBIA"

Submitted by
HEMA S. JAGTAP
B.Sc. II (Sem-III)

Date of Submission: 03.11.2018

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. HEMA S. JAGTAP has carried out Project Work entitled "HABIT AND HABITAT OF AMPHIBIA" successfully during the Session 2018-19 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:03.11.2018

HEAD
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Principal
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Dhamangaon Rly.

18-19 ZOO SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"CONCEPT OF GENES"

Submitted by
AASIYA HUSAIN

B.Sc. II (Sem-IV)

Date of Submission: 03.11.2018

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. AASIYA HUSAIN has carried out Project Work entitled "CONCEPT OF GENES" successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:03.11.2018

Head Zoology
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"LAWS OF DOMINANCE"

Submitted by
AISHWARYA S. KALE

B.Sc. II (Sem-IV)

Date of Submission: 16.03.2019

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Academic Session: 2018-19

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. AISHWARYA S. KALE has carried out Project Work entitled "LAWS OF DOMINANCE" successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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Department of Zoology
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"LAW OF SEGREGATION"

Submitted by

ANUSHRI D. NAGPURE

B.Sc. II (Sem-IV)

Date of Submission: 16.03.2019

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. ANUSHRI D. NAGPURE has carried out Project Work entitled "LAW OF SEGREGATION" successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"LAW OF INDEPENDENT ASSORTMENT"

Submitted by
APARNA D. UIKE

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Academic Session: 2018-19

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. APARNA D. UIKE has carried out Project Work entitled "LAW OF INDEPENDENT ASSORTMENT" successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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Topic

"SUPPLEMENTARY FACTOR"

Submitted by
HEMA S. JAGTAP

B.Sc. II (Sem-IV)

Date of Submission: 16.03.2019

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CERTIFICATE

This is to certify that Ku. HEMA S. JAGTAP has carried out Project Work entitled "SUPPLEMENTARY FACTOR" successfully during the Session 2018-19 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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18-19 ZOO SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"TRANSPORT OF OXYGEN"

Submitted by
KU. AFREEN S. K. MURTUZA
B.Sc. III (Sem-V)

Date of Submission: 03.11.2018

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that KU. AFREEN S. K. MURTUZA has carried out Project Work entitled "TRANSPORT OF OXYGEN" successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"APICULTURE"

Submitted by

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B.Sc. III (Sem-V)

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CERTIFICATE

This is to certify that MR. AKSHAY D. ITIWALE has carried out Project Work entitled "APICULTURE" successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"BLOOD"

Submitted by
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B.Sc. III (Sem-V)

Date of Submission: 03.11.2018

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CERTIFICATE

This is to certify that MR. AKSHAY M. BHOYAR has carried out Project Work entitled "BLOOD" successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"SERICULTURE"

Submitted by
MR. ANIKET J. RAUT

B.Sc. III (Sem-V)

Date of Submission: 03.11.2018

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Academic Session: 2018-19

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CERTIFICATE

This is to certify that MR. ANIKET J. RAUT has carried out Project Work entitled "SERICULTURE" successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"THE LUNGS"

Submitted by
KU. BHAKTEE P. SHELOTKAR

B.Sc. III (Sem-V)

Date of Submission: 03.11.2018

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that KU. BHAKTEE P. SHELOTKAR has carried out Project Work entitled "THE LUNGS" successfully during the Session 2018-19 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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18-19 ZOO SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"DNA REPLICATION: SEMI CONSERVATIVE METHOD"

Submitted by

KU. AFREEN S. K. MURTUZA

B.Sc. III (Sem-VI)

Date of Submission: 16.03.2019

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Academic Session: 2018-19

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that KU. AFREEN S. K. MURTUZA has carried out Project Work entitled "DNA REPLICATION: SEMI CONSERVATIVE METHOD" successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"EXPERIMENT BY MESSELSON AND STAHL"

Submitted by
MR. AKSHAY D. ITIWALE

B.Sc. III (Sem-VI)

Date of Submission: 16.03.2019

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Academic Session: 2018-19

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MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that MR. AKSHAY D. ITIWALE has carried out Project Work entitled "EXPERIMENT BY MESSELSON AND STAHL" successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"CONCEPT OF GENES"

Submitted by
MR. AKSHAY M. BHOYAR

B.Sc. III (Sem-VI)

Date of Submission: 16.03.2019

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Academic Session: 2018-19

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that MR. AKSHAY M. BHOYAR has carried out Project Work entitled "CONCEPT OF GENES" successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
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Topic

"ONE GENE ONE ENZYME HYPOTHESIS"

Submitted by
MR. ANIKET J. RAUT

B.Sc. III (Sem-VI)

Date of Submission: 16.03.2019

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CERTIFICATE

This is to certify that MR. ANIKET J. RAUT has carried out Project Work entitled "ONE GENE ONE ENZYME HYPOTHESIS" successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"OVERLAPPING GENES"

Submitted by
KU. BHAKTEE P. SHELOTKAR

B.Sc. III (Sem-VI)

Date of Submission: 16.03.2019

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CERTIFICATE

This is to certify that KU. BHAKTEE P. SHELOTKAR has carried out Project Work entitled "OVERLAPPING GENES" successfully during the Session 2018-19 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2019

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2018-2019

A PROJECT REPORT ON

AMAZON

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

PRITI S. GAYDHANE

RUCHITA V. DESHEWAR

SHITAL C. PALEKAR

TEJASWINI G. BUCHANDE

VAISHNVI P. CHAVAN

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



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2018-19

Scanned with CamScanner

CERTIFICATE

This is to certify that **PRITI S. GAYDHANE, RUCHITA V. DESHEWAR,SHITAL C. PALEKAR, TEJASWINI G. BUCHANDE, VAISHNVI P. CHAVAN has** successfully completed the project titled **"AMAZON"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

BUSINESS 2 BUSINESS

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

NIKITA L. NIKHADE

PRITI H. SHELOKAR

SWITI D. MOHOD

VAISHNAVI S. TITARE

MAYURI T. GAYKWAD

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2018-19

Scanned with CamScanner

CERTIFICATE

This is to certify that **NIKITA L. NIKHADE, PRITI H. SHELOKAR, SWITI D. MOHOD, VAISHNAVI S. TITARE, MAYURI T. GAYKWAD** have successfully completed the project titled" **BUSINESS 2 BUSINESS**" at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

B2B MARKETING

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

KUNAL G. HATWAR

MONIKA R. JADHAV

POOJA G. FARKADE

VAIBHAV M. HATWAR

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2018-19

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CERTIFICATE

This is to certify that **KUNAL G. HATWAR, MONIKA R. JADHAV, POOJA G. FARKADE, VAIBHAV M. HATWAR** have successfully completed the project titled **" B2B MAKRETING"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

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A PROJECT REPORT ON

BUSINESS 2 CONSUMER

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

ARATI N. RONGHE

ASHWINI N. DHAGE

BHARATI B. NEWARE

CHETANA N. SAWLIKAR

Under the Guidance of

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Assistant Professor



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2018-19

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CERTIFICATE

This is to certify that **ARATI N. RONGHE, ASHWINI N. DHAGE, BHARATI B. NEWARE, CHETANA N. SAWLIKAR** have successfully completed the project titled **BUSINESS 2 CONSUMER "** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

BUSINESS 2 CONSUMER

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

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KIRTI J. RAMGAONKAR

POOJA G. KORDE

POOJA S. GAUPAL

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2018-19

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CERTIFICATE

This is to certify that **DIPALI A. RAUT, KIRTI J. RAMGAONKAR, POOJA G. KORDE, POOJA S. GAUPAL** have successfully completed the project titled **" E-banking"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

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19-20 CHEM SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

" SURFACE TENSION "

Submitted By

1) Apurva M. Pawar

2) Komal R. Virulkar

3) Renuka R. Bhusari

4) Harshali M. Shrirame

5) Bhagyashri Kasturkar

B. Sc. II (Sem. III)

Date of submission – *19 /09 /2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (SemIII) during the session 2018-2019.

1) Apurva M. Pawar

2) Komal R. Virulkar

3) Renuka R. Bhusari

4) Harshali M. Shrirame

5) Bhagyashri Kasturkar

Project Topic:

" SURFACE TENSION "

Signature of Teacher incharge

Date-19/09/2019

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla Commerce Mahavidyalaya,
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Head
Department of Chemistry

Principal
Adarsha Science
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Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Chemistry Of Carbonyl Group"

Submitted By

1) Miss. Pranjali Titare
2) Miss. Pranita Ambatkar
3) Miss. Kallyani Saundarkar

B. Sc. II (Sem. III)

Date of submission – *19 /09 /2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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Submitted By

1) Miss. Pranjali Titare
2) Miss. Pranita Ambatkar
3) Miss. Kallyani Saundarkar

Project Topic
"Chemistry Of Carbonyl Group"

Signature of Teacher incharge

Date- 19/09/2019

Head
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Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic :

Structure and bonding in carbonyl group

By

Mr. Rushikesh N. Daware

Mr . Gaurav R. Meshram

Mr. Kartik S. Deogade

Mr. Saurav P. Gadling

Mr. Purvesh P. Kanere

B. Sc. II (Sem- III)

Date of submission – 19 th *Sept. 2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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Submitted By

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2) Mr. Gaurav R. Meshram
3) Mr. Kartik S. Deogade
4) Mr. Saurav P. Gadling
5) Mr. Purvesh P. Kanere

Project Topic

"Structure and bonding in carbonyl group"

Signature of Teacher incharge

Date- 19/09/2019

Head
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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"EXTRACTION"

Submitted By

1) Miss. Papiha Dable
2) Miss. Pratiksha Vakil
3) Miss. Sana Ahmad
4) Miss. Snehal Masram
5) Miss. Renuka Borkar

B. Sc. II (Sem. III)

Date of submission – ***19 /09 /2019***

Department of chemistry

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

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Submitted By

1) Miss. Papiha Dable
2) Miss. Pratiksha Vakil
3) Miss. Sana Ahmad
4) Miss. Snehal Masram
5) Miss. Renuka Borkar

Project Topic

"EXTRACTION"

Principal
Adarsha Science
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Signature of Teacher incharge

Date- 19/09/2019

Head
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Van't Hoff Equation"

Submitted By

1) Mr. Abhishek Mudrake
2) Mr. Akash Shinganapure
3) Mr. Hemant Uike
4) Mr. Rajendra Yadav
5) Mr. Rutwik Karlekar

B. Sc. II (Sem. III)

Date of submission – *19 /09 /2019*

Department of chemistry

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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Submitted By

1) Mr. Abhishek Mudrake
2) Mr. Akash Shinganapure
3) Mr. Hemant Uike
4) Mr. Rajendra Yadav
5) Mr. Rutwik Karlekar

Project Topic

"Van't Hoff Equation"

Signature of Teacher incharge

Date- 19/09/2019

Head
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Head
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19-20 CHEM SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic :

Colligative Properties – Osmotic Pressure

By

1) Miss. Mahak S. Mokati

2) Miss. Divya P. Nikhade

3) Miss. Vaishnavi N. Gupta

4) Miss. Chetana D. Gajbhiye

5) Miss. Rupali B. Talan

B. Sc. II (Sem. IV)

Date of submission – *20th Feb. 2020*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2019-2020.

1) Miss. Mahak S. Mokati
2) Miss. Divya P. Nikhade
3) Miss. Vaishnavi N. Gupta
4) Miss. Chetana D. Gajbhiye
5) Miss. Rupali B. Talan

Project Topic:

" COLLIGATIVE PROPERTIES – OSMOTIC PRESSURE "

Principal
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Birla Commers Mahavidyalaya
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Signature of Teacher In-charge

Date- 20/02/2020

Head
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Dhamangaon Rly.

Head
Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic :

Metallurgy

By

1) Miss. Papiha R. Dable

2) Miss. Pratiksha K. Vakil

3) Miss. Renuka S. Borkar

4) Miss. Sana Ahmad

5) Miss. Snehal S. Masram

B. Sc. II (Sem. IV)

Date of submission – 20/02/2020

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. II (Sem.IV) during the session 2019-2020.

1) Miss. Papiha R. Dable
2) Miss. Pratiksha K. Vakil
3) Miss. Renuka S. Borkar
4) Miss. Sana Ahmad
5) Miss. Snehal S. Masram

Project Topic:

" Metallurgy "

Principal
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DHAMANGAON Rly.

Signature of Teacher In-charge

Date- 20/02/2020

Head
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic :

Colligative Properties Relative Lowering of Vapour Pressure

By

1) Miss. Komal Virulkar
2) Miss. Renuka Bhusari
3) Miss. Harshali Shrirame
4) Miss. Apurva Pawar
5) Miss. Bhaghyshri Kasturkar

B. Sc. II (Sem. IV)

Date of submission – *20th Feb. 2020*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

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2) Miss. Renuka Bhusari
3) Miss. Harshali Shrirame
4) Miss. Apurva Pawar
5) Miss. Bhaghyshri Kasturkar

Project Topic:

Colligative Properties Relative Lowering of Vapour Pressure

Principal
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Signature of Teacher incharge

Date- 20/02/2020

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Commerce Mahavidyalaya
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Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic :
BRAGG'S EQUATION AND IT'S APPLICATION

By

1) Mr. Adarsh T. Upadhayay

2) Mr. Akshay R. Ingle

3) Mr. Harshal A. Narode

4) Mr. Purvesh T. Chandak

B. Sc. II (Sem. IV)

Date of submission – *13th Feb. 2020*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE
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DEPARTMENT OF CHEMISTRY

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1) Mr. Adarsh T. Upadhayay

2) Mr. Akshay R. Ingle

3) Mr. Harshal A. Narode

4) Mr. Purvesh T. Chandak

Project Topic:

" BRAGG'S EQUATION AND IT'S APPLICATION "

Signature of Teacher In-charge

Date- 13/02/2020

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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

INNER TRANSITION ELEMENT

By

1) Miss. Vaishnavi S. Bhutada

2) Miss. Samiksha S. Dagwal

3) Miss. Sandesha M. Mundane

4) Miss. Shivani V. Bhongade

5) Miss. Pooja R. Tayvade

6) Miss. Priya P. Borkar

B. Sc. II (Sem IV)

Date of submission – *11 Feb 2020*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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DEPARTMENT OF CHEMISTRY

CERTIFICATE

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3) Miss. Sandesha M. Mundane

4) Miss. Shivani V. Bhongade

5) Miss. Pooja R. Tayvade

6) Miss. Priya P. Borkar

Project Topic:

INNER TRANSITION ELEMENT

Principal
Adarsha Science
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Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

Signature of Teacher In - charge

Date- 11/02/2020

Head
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Adarsha Science,J.B. Arts & Birla
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Head
Department of Chemistry

19-20 CHEM SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Fertilizer and Pollution"

Submitted By

1) Abhishek N. Jadhao
2) Ashutosh S. Bavaskar
3) Mahesh G. Mundane

B. Sc. III (Sem. V)

Date of submission – *12 /09 /2019*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2019-2020.

Submitted By

1) Abhishek N. Jadhao
2) Ashutosh S. Bavaskar
3) Mahesh G. Mundane

Project Topic
"Fertilizer and Pollution "

Signature of Teacher incharge

Date- 12/09/2019

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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

CHEMILUMINESCENCE AND BIOLUMINESCENCE

By

1) Miss. Pratiksha G.Tarpe

2) Miss.Rachana R.Sharma

3) Miss.Riddhi V.Bhande

4) Miss.Vaishnavi S.Hiwarkar

B. Sc. III (Sem. V)

Date of submission – *12 Sept 2019*

Department of chemistry

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DEPARTMENT OF CHEMISTRY

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Project Topic:

CHEMILUMINESCENCE AND BIOLUMINESCENCE

by

1) Miss. Pratiksha G.Tarpe

2) Miss. Rachana R.Sharma

3) Miss. Riddhi V.Bhande

4) Miss.Vaishnavi S.Hiwarkar

Principal
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Signature of Teacher in charge

Date- 12/09/2019

Head
Department of Chemistry

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project Submission as a Part of Internal Assessment)



Project on

"PHOTOCHEMISTRY"

Submitted by

1) Ms. Sneha Padole
2) Ms. Papiha Zele
3) Ms. Shivani Kawale
4) Ms. Snehal Sawant

B. Sc. III (Sem. V)

Date of Submission: 12/09/2019

Department of Chemistry

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2019-20

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALA, DHAMANGAON (RLY)

DEAPARTMENT OF CHEMISTRY

CERRIFICATE

This is to certify that the project work submitted in this report has been carried by following students of B. Sc. III (Sem. V) during the session 2019-20.

Submitted by

1) Ms. Sneha Padole
2) Ms. Papiha Zele
3) Ms. Shivani Kawale
4) Ms. Snehal Sawant

Project Topic:

"PHOTOCHEMISTRY"

Signature of Teacher in charge

Date - 12/09/2019

Head
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Chemistry of Organometallic Compound "

Submitted By

1) Vaishnavi G. Gulhane
2) Roshani A. Hiware
3) Vrushali P. Pinjari
4) Vineshwari N. Alone
5) Vaishnavi S. Thakare

B. Sc. III (Sem. V)

Date of submission – ***11 /09 /2019***

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

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DEPARTMENT OF CHEMISTRY

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1) Vaishnavi G. Gulhane
2) Roshani A. Hiware
3) Vrushali P. Pinjari
4) Vineshwari N. Alone
5) Vaishnavi S. Thakare

Project Topic

"Chemistry of Organometallic Compound "

Signature of Teacher incharge

Date- 11/09/2019

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Vibrational Spectroscopy

By

1) Komal B. Lahoti
2) Vruttika R. Bhilkar
3) Gayatri K. More
4) Anjali A. Bahurupi
5) Ankita S. Harsodkar

B. Sc. III (Sem. V)

Date of submission – 09/03/13

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DEPARTMENT OF CHEMISTRY

Certificate

This is to certify the project work submitted in this report has been carried out by following students of B. Sc. III (sem. V) during the session 2019-2020.

1) Komal B. Lahoti
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3) Gayatri K. More
4) Anjali A. Bahurupi
5) Ankita S. Harsodkar

Project topic:

Vibrational Spectroscopy

Signature of Teacher in charge

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Date:- 09/09/19

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19-20 CHEM SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

NMR SPECTROSCOPY

By

1) Miss. Pratiksha G. Tarpe

2) Miss. Rachana R. Sharma

3) Miss .Vaishnavi S. Hiwarkar

4) Miss. Riddhi V. Bhande

B. Sc. III (Sem. VI)

Date of submission –*20Feb 2020*

Department of chemistry

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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2019-2020.

1) Miss. Pratiksha G. Tarpe

2) Miss. Rachana R. Sharma

3) Miss .Vaishnavi S. Hiwarka

4) Miss. Riddhi V. Bhande

Project Topic:

NMR SPECTROSCOPY

Signature of Teacher in charge

Date- 20/02/2020

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

INFRA-RED SPECTROSCOPY

By

1) Owes Raheman Mugal

2) Himanshu Shrikant Shende

3) Sagar Gajanan sontakke

4)Mayur omkar Titare

B. Sc. III (Sem. VI)

Date of submission – ***08 Feb. 2020***

Department of chemistry

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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2019-2020.

1) Owes Raheman Mugal

2) Himanshu Shrikant Shende

3) Sagar Gajanan sontakke

4)Mayur omkar Titare

Project Topic:

INFRA-RED SPECTROSCOPY

Signature of Teacher in charge

Date- 08/02/2020

Head

Head
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

UV - VISIBLE Spectroscopy

By

- Komal B. Lahoti
- Vruttika R. Bhilkar
- Gayatri K. More
- Anjali A. Bahurupi
- Ankita S. Harsodkar

B. Sc. III (Sem. VI)

Date of submission – 22nd Feb 2020

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Adarsha Science J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

DEPARTMENT OF CHEMISTRY

Certificate

This is to certify the project work submitted in this report has been carried out by following students of B. Sc. III (sem. VI) during the session 2019-2020.

1) Komal B. Lahoti
2) Vruttika R. Bhilkar
3) Gayatri K. More
4) Anjali A. Bahurupi
5) Ankita S. Harsodkar

Project topic:

UV- VISIBLE Spectroscopy

Signature of Teacher in charge

Head
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Head
Department of Chemistry

Date:- 18 /02 /2020

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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Plastic Waste Management

Submitted By

1) Miss Juhi P. Raghuwanshi

2) Miss Pragati D. Dudhe

3) Miss Ankita R. Choudhari

4) Miss. Priyanka A. Kukse

B. Sc. III (Sem. VI)

Date of submission - 17-02-2020

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2019-2020.

1) Miss Juhi P. Raghuwanshi

2) Miss Pragati D. Dudhe

3) Miss Ankita R. Choudhari

4) Miss. Priyanka A. Kukse

Project Topic:

Plastic Waste Management

Signature of Teacher in charge

Date- 11/02/2020

Head

Department of Chemistry

Head
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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Kinetic Aspect of Metal Complexes

By

1) Miss. Dipali Joi

2) Miss. Amruta Gorde

3) Miss. Ashwini Patil

4) Miss. Kajal Panpaliya

5) Miss. Harshada Bhendarkar

B. Sc. III (Sem. VI)

Date of submission – *10 Feb. 2020*

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2019-2020.

1) Miss. Dipali Joi
2) Miss. Amruta Gorde
3) Miss. Ashwini Patil
4) Miss. Kajal Panpaliya
5) Miss. Harshada Bhendarkar

Project Topic:

Kinetic Aspect of Metal Complexes

Signature of Teacher in charge

Date- 10/02/2020

Head
Department Of Chemistry
Adarsha Science & Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

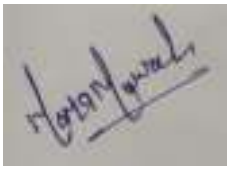
Principal
Adarsha Science
Jaiswardan Bhagchand Arts
Birla Commerce Mahavidyalaya

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **AACHAL R. THOOL** has carried out Project Work entitled " Image Processing **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ACHAL P. RAJANKAR** has carried out Project Work entitled " Image Processing **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ANKITA A. WAGHMARE** has carried out Project Work entitled " Image Processing **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that has carried out Project Work entitled " " successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ARATI V. ZADE** has carried out Project Work entitled " Mobile Wallet with Merchant Payment **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Image Processing

-:SUBMITTED BY:-

AACHAL R. THOOL

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Image Processing

-:SUBMITTED BY:-

ACHAL P. RAJANKAR

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Image Processing

-:SUBMITTED BY:-

ANKITA A. WAGHMARE

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

-:SUBMITTED BY:-

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Mobile Wallet with Merchant Payment

-:SUBMITTED BY:-

ARATI V. ZADE

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **AACHAL R. THOOL** has carried out Project Work entitled " Internet of Things(IOT) **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

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Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ANKITA A. WAGHMARE** has carried out Project Work entitled " Internet of Things(IOT) **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

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CERTIFICATE

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Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **ARATI V. ZADE** has carried out Project Work entitled " Big Data **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Internet of Things(IOT)

-:SUBMITTED BY:-

AACHAL R. THOOL

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Internet of Things(IOT)

-:SUBMITTED BY:-

ACHAL P. RAJANKAR

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Internet of Things(IOT)

-:SUBMITTED BY:-

ANKITA A. WAGHMARE

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

-:SUBMITTED BY:-

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Big Data

-:SUBMITTED BY:-

ARATI V. ZADE

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Aafrin S.A.** has carried out Project Work entitled " Credit Card Reader with Face recognition **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mariya Husain** has carried out Project Work entitled " Credit Card Reader with Face recognition **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Shubdha Dhakulkar** has carried out Project Work entitled " Credit Card Reader with Face recognition **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Amit Dambale** has carried out Project Work entitled " E-Governance **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avil Chitukane** has carried out Project Work entitled " E-Governance **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Credit Card Reader with Face recognition

-:SUBMITTED BY:-

Aafrin S.A.

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Credit Card Reader with Face recognition

-:SUBMITTED BY:-

Mariya Husain

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Credit Card Reader with Face recognition

-:SUBMITTED BY:-

Shubdha Dhakulkar

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

E-Governance

-:SUBMITTED BY:-

Amit Dambale

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

E-Governance

-:SUBMITTED BY:-

Avil Chitukane

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Aafrin S.A.** has carried out Project Work entitled " Google Map **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mariya Husain** has carried out Project Work entitled " Google Map **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Shubdha Dhakulkar** has carried out Project Work entitled " Google Map **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Amit Dambale** has carried out Project Work entitled " Google Class Room **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Avil Chitukane** has carried out Project Work entitled " Google Class Room **"** successfully during the Session 2018-2019 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.



Signature of Teacher in-charge **Head**

Date of Submission: **Department of Computer Science**



Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Map

-:SUBMITTED BY:-

Aafrin S.A.

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Map

-:SUBMITTED BY:-

Mariya Husain

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Map

-:SUBMITTED BY:-

Shubdha Dhakulkar

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Class Room

-:SUBMITTED BY:-

Amit Dambale

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Google Class Room

-:SUBMITTED BY:-

Avil Chitukane

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2018-2019)

Project Report

On

"Bike Turning Signal Indicator Device"

Submitted

To Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Miss. Dhanashree S. Jawadekar

Miss. Prachi N. Gadkari

Miss. Saloni R. Jaiswal

Miss. Vaishnavi P. Waghe

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke

Department of Electronics

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2019-2020)

CERTIFICATE

This is to certified that project entitled **"Bike Turning Signal Indicator Device"** has been successfully completed under the guidance of Dr. S. A. Rodge, Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati.

Submitted by

Miss. Dhanashree S. Jawadekar

Miss. Prachi N. Gadkari

Miss. Saloni R. Jaiswal

Miss. Vaishnavi P. Waghe

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department Of Electronics)

Dr. Y.B. Gandole
(Principal)

Department of Electronics
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2019–2020)

Project Report

On

"Alcohol Detector Using MQ-3 Sensor"

Submitted

To Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Mr. Nishikant L. Hatwar

Mr. Vishal S. Madare

Mr. Sumit V. Sawant

Mr. Prafulla D. Vairale

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke

Department of Electronics

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2019-2020)

CERTIFICATE

This is to certified that project entitled **"Alcohol Detector Using MQ-3 Sensor"** has been successfully completed under the guidance of Dr. S. A. Rodge, Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati.

Submitted by

Mr. Nishikant L. Hatwar

Mr. Vishal S. Madare

Mr. Sumit V. Sawant

Mr. Prafulla D. Vairale

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department Of Electronics)

Dr. Y.B. Gandole
(Principal)

Department of Electronics
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2019–2020)

Project Report

On

"Blinking Of Led Photoframe Using Multivibrator Based On General Purpose PCB"

Submitted

To Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Miss. Kajal S. Bansod

Miss. Pratiksha R. Kale

Miss. Harshali G. Talmale

Miss. Nidhi S. Dhawane

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke

Department of Electronics

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2019-2020)

CERTIFICATE

This is to certified that project entitled **"Blinking Of Led Photoframe Using Multivibrator Based On General Purpose PCB"** has been successfully completed under the guidance of Dr. S. A. Rodge, Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati.

Submitted by

Miss. Kajal S. Bansod
Miss. Harshali G. Talmale

Miss. Pratiksha R. Kale
Miss. Nidhi S. Dhawane

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department Of Electronics)

Dr. Y.B. Gandole
(Principal)

Department of Electronics
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2019–2020)

Project Report

On

"Metal Detector Using 555 Timer IC"

Submitted

To Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Mr. Sandesh V. Sonone

Mr. Pranay G. Ghawat

Mr. Nandakishor M. Jiwatode

Miss. Minakshi M. Rajankar

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke

Department of Electronics

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2019-2020)

CERTIFICATE

This is to certified that project entitled **"Metal Detector Using 555 Timer IC"** has been successfully completed under the guidance of Dr. S. A. Rodge, Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati.

Submitted by

Mr. Sandesh V. Sonone

Mr. Pranay G. Ghawat

Mr. Nandakishor M. Jiwatode

Miss. Minakshi M. Rajankar

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department Of Electronics)

Dr. Y.B. Gandole
(Principal)

Department of Electronics
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2019–2020)

Project Report

On

"Water Level Indicator"

Submitted

To Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Miss. Puja V. Wankhade

Miss. Monali C. Waghmare

Miss. Ashwini A. Manwatkar

Miss. Shrutika R. Warthi

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke

Department of Electronics

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2019-2020)

CERTIFICATE

This is to certified that project entitled **"Water Level Indicator"** has been successfully completed under the guidance of Dr. S. A. Rodge, Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati.

Submitted by

Miss. Puja V. Wankhade

Miss. Monali C. Waghmare

Miss. Ashwini A. Manwatkar

Miss. Shrutika R. Warthi

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department Of Electronics)

Dr. Y.B. Gandole
(Principal)

Department of Electronics
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2019–2020)

A

PROJECT REPORT

ON

"HOME AUTOMATION USING BLUETOOTH"

Submitted To

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

For the degree of

MASTER OF SCIENCE

IN

ELECTRONICS

Submitted By

MS. MAYURI B. GAWANDE

PROF. DR.Y. B. GANDOLE

PRINCIPAL

Adarsha Science, Jairamdas Bhagchand Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon (Rly)

PROF. S. A. RODGE

HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand Arts &
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Dhamangaon (Rly)

P.G. Department of Electronics

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY), DIST. AMRAVATI

2019-2020

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY), DIST. AMRAVATI

2019-2020

P.G. Department of Electronics



Certificate

This is to certify that the project entitled ***"HOME AUTOMATION USING BLUETOOTH"*** *which is being submitted to* ***Sant Gadge Baba Amravati University*** *herewith for the partial fulfillment of the requirement for the award of the* ***'Degree of Master of Science'*** *in* ***'Electronics'*** *of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by* ***Ms. Mayuri B. Gawande*** *under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.*

PROF. DR.Y.B.GANDOLE

PRINCIPAL

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

PROF. S. A. RODGE

HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

.....

External Examiner

A

PROJECT REPORT

ON

"HOME AUTOMATION USING BLUETOOTH"

Submitted To

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

For the degree of

MASTER OF SCIENCE

IN

ELECTRONICS

Submitted By

MS. NEHA P. NILAJKAR

PROF. DR.Y. B. GANDOLE

PRINCIPAL

Adarsha Science, Jairamdas Bhagchand Arts &
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PROF. S. A. RODGE

HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon (Rly)

P.G. Department of Electronics

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY), DIST. AMRAVATI

2019-2020

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY), DIST. AMRAVATI

2019-2020

P.G. Department of Electronics



Certificate

This is to certify that the project entitled ***"HOME AUTOMATION USING BLUETOOTH"*** *which is being submitted to* ***Sant Gadge Baba Amravati University*** *herewith for the partial fulfillment of the requirement for the award of the* ***'Degree of Master of Science'*** *in* ***'Electronics'*** *of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by* ***Ms. Neha P. Nilajkar*** *under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.*

PROF. DR.Y.B.GANDOLE

PRINCIPAL

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

PROF. S. A. RODGE

HOD DEPT. OF ELECTRONICS

Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

.....

External Examiner

A

PROJECT REPORT

ON

"Temperature Operated Machine"

Submitted to

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

for the degree of

MASTER OF SCIENCE

IN

ELECTRONIC INSTRUMENTATION

Submitted By

Mr Sumit N. Gedam



Dr. Y. B. GANDOLE
Principal

PROF. S. A. RODGE
Guide & HOD

P.G. Department of Electronics Instrumentation

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAIN RLY
Dist. Amravati

2019-2020

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAIN RLY
Dist. Amravati
2019-2020

P.G. Department of Electronics Instrumentation



Certificate

This is to certify that the project entitled "**Temperature Operated Machine**" which is being submitted to **Sant Gadge Baba Amravati University** herewith for the partial fulfillment of the requirement for the award of the **'Degree of Master of Science'** in **'Electronics Instrumentation'** of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by **Mr. Sumit Narendra Gedam** under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.

Dr. Y. B. GANDOLE
Principal

PROF. S. A. RODGE
Guide & HOD

.....
External Examiner

.....
Internal Examiner

A

PROJECT REPORT

ON

"Contactless Sanitizer Dispenser"

Submitted to

Sant Gadge Baba Amravati University, Amravati

For the fulfillment of the requirement of final year

for the degree of

MASTER OF SCIENCE

IN

ELECTRONIC INSTRUMENTATION

Submitted By

Mr. Gaurav M. Ronghe

Mr Piyush R. Agrawal



Dr. Y. B. GANDOLE
Principal

PROF. S. A. RODGE
Guide & HOD

P.G. Department of Electronics Instrumentation

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAIN RLY
Dist. Amravati

2019-2020

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAIN RLY
Dist. Amravati
2019-2020

P.G. Department of Electronics Instrumentation



Certificate

This is to certify that the project entitled "**Contactless Sanitizer Dispenser**" which is being submitted to **Sant Gadge Baba Amravati University** herewith for the partial fulfillment of the requirement for the award of the **'Degree of Master of Science'** in **'Electronics Instrumentation'** of Sant Gadge Baba Amravati University, Amravati. This is the result of the project work and contribution by **Mr. Gaurav M. Ronghe & Mr. Piyush R. Agrawal** under my supervision and guidance. The work embodied in this project has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of my knowledge and belief.

Dr. Y. B. GANDOLE
Principal

PROF. S. A. RODGE
Guide & HOD

.....
External Examiner

.....
Internal Examiner

19-20 MICRO SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Mutation by Gamma Rays

Submitted by

Adarsh T. Upadhyay

B.Sc.II (Sem-III)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Adarsh T. Upadhyay has carried out Project Work entitled **"Mutation by Gamma Rays"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Polymerase Chain Reaction PCR

Submitted by

Aishwarya V.Shastrakar

B.Sc.II (Sem-III)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aishwarya V.Shastrakar has carried out Project Work entitled **"Polymerase Chain Reaction PCR"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Isolation of genomic DNA from Bacteria

Submitted by

Anjali N. Funde

B.Sc.II (Sem-III)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Anjali N. Funde has carried out Project Work entitled **"Isolation of genomic DNA from Bacteria"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Mutation by Acrydene Dyes

Submitted by

Aparna S.Tarale

B.Sc.II (Sem-III)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aparna S.Tarale has carried out Project Work entitled **"Mutation by Acrydene Dyes"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Topoisomerases

Submitted by

Apurva M.Pawar

B.Sc.II (Sem-III)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Apurva M.Pawar has carried out Project Work entitled **"Topoisomerases"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

19-20 MICRO SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Widal Test

Submitted by

Adarsh T. Upadhyay

B.Sc.II (Sem-IV)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Adarsh T. Upadhyay has carried out Project Work entitled **"Widal Test"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Antigenic Determinants

Submitted by

Aishwarya V.Shastrakar

B.Sc.II (Sem-IV)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aishwarya V.Shastrakar has carried out Project Work entitled **"Antigenic Determinants"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Ig G (Immunoglobulin G)

Submitted by

Anjali N. Funde

B.Sc.II (Sem-IV)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Anjali N. Funde has carried out Project Work entitled **"Ig G (Immunoglobulin G)"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Ig A (Immunoglobulin A)

Submitted by

Aparna S.Tarale

B.Sc.II (Sem-IV)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Aparna S.Tarale has carried out Project Work entitled **"Ig A (Immunoglobulin A)"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Ig M (Immunoglobulin M)

Submitted by

Apurva M.Pawar

B.Sc.II (Sem-IV)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Apurva M.Pawar has carried out Project Work entitled **"Ig M (Immunoglobulin M)"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

19-20 MICRO SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Symbiotic Nitrogen Fixation

Submitted by

Ku. Aasiya P. S. Husain

B.Sc.III (Sem-V)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aasiya P. S. Husain has carried out Project Work entitled **"Symbiotic Nitrogen Fixation"** successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"Bioleaching

Submitted by

Ku. Aishwarya S. Kale

B.Sc.III (Sem-V)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aishwarya S. Kale has carried out Project Work entitled **"Bioleaching"** successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Isotopic Tracer technique

Submitted by

Ku. Anushri D. Nagpure

B.Sc.III (Sem-V)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Anushri D. Nagpure has carried out Project Work entitled **"Isotopic Tracer technique"** successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Biodegradation of pesticides

Submitted by

Ku. Aparna D. Uike

B.Sc.III (Sem-V)

Date of Submission: Winter 2019

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aparna D. Uike has carried out Project Work entitled **"Biodegradation of pesticides"** successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

“Air sanitation

Submitted by

Ku. Hema S. Jagtap

B.Sc.III (Sem-V)

Date of Submission: Winter 2019

Department of Microbiology

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Dhamangaon (Rly).

Academic Session: 2019-20

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Hema S. Jagtap has carried out Project Work entitled **"Air sanitation"** successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Winter 2019 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

19-20 MICRO SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Penicillin

Submitted by

Ku. Aasiya P. S. Husain

B.Sc.III (Sem-VI)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aasiya P. S. Husain has carried out Project Work entitled **"Industrial Production of Penicillin"** successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Microbial Industrial Production of Cellulase

Submitted by

Ku. Aishwarya S. Kale

B.Sc.III (Sem-VI)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aishwarya S. Kale has carried out Project Work entitled **"Microbial Industrial Production of Cellulase"** successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Beer

Submitted by

Ku. Anushri D. Nagpure

B.Sc.III (Sem-VI)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Anushri D. Nagpure has carried out Project Work entitled **"Industrial Production of Beer"** successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

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Topic

"Industrial Production of Amylase (Bacterial)

Submitted by

Ku. Aparna D. Uike

B.Sc.III (Sem-VI)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Aparna D. Uike has carried out Project Work entitled **"Industrial Production of Amylase (Bacterial)"** successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

"Industrial Production of Single Cell Protein

Submitted by

Ku. Hema S. Jagtap

B.Sc.III (Sem-VI)

Date of Submission: Summer 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Hema S. Jagtap has carried out Project Work entitled **"Industrial Production of Single Cell Protein"** successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge **Head**

Date of Submission: Summer 2020 **Department of Microbiology**

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

19-20 MICRO SEM IV MSC

A

Project on

"A STUDY OF ANTIMICROBIAL ACTIVITY OF ASAFOETIDA"

Submitted in partial fulfillment for degree of

Master In Science

IN

MICROBIOLOGY

Submitted By

Miss. Priya S. Khope

M.Sc. Part – II

Supervisor

Miss. Shweta Dudhe



P. G. DEPARTMENT OF MICROBIOLOGY

Adarsha Science, Jairamdas Bhagchand Arts and Birala Commerce

Mahavidyalaya, Dhamangaon Rly

2019-2020

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P. G. DEPARTMENT OF MICROBIOLOGY

Adarsha Science, Jairamdas Bhagchand Arts and Birala Commerce

Mahavidyalaya, Dhamangaon Rly

Amravati University

CERTIFICATE

This is to certify that the dissertation entitled, **" A STUDY OF ANTIMICROBIAL EFFECT OF ASAFOETIDA"** is being submitted in the partial fulfilment for the award of degree of Master of Science in Microbiology, S.G.B.A.U., Amravati has been prepared by Miss. Priya S. Khope under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

Dr. G. N. Budhlani

Head

Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Miss. Shweta D. Dudhe

Guide

Department of Microbiology

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A

PROJECT ON

"To determine the antimicrobial and anti-bio film activity Zingiber officinale (ginger oil) and ocimum bacilicum

(Tulsi oil) against biofilm forming pseudomonas species isolated from the used urinary catheter"

Submitted in partial fulfilment for degree of

MASTER OF SCIENCE

IN

MICROBIOLOGY

Submitted By

Miss. Pragati A Dhanjode

M.Sc. Part-II

Supervisor

Miss. S.P. Fadanvis



P. G. DEPARTMENT OF MICROBIOLOGY,

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY, DISTRICT AMRAVATI

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ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY, DISTRICT AMRAVATI

P. G. DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that the dissertation entitled **"To determine the antimicrobial and anti-bio film activity Zingiber officinale (ginger oil) and ocimum bacilicum (Tulsi oil) against biofilm forming pseudomonas species isolated from the used urinary catheter"** is being submitted in the partial fulfilment for the award of degree of Master of Science in Microbiology, S. G. B. A.U., Amravati has been prepared by **Miss. Pragati A Dhanjode** my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

Dr. G. N. Budalani

Head

Department of Microbiology

Miss. S. P. Fadanvis

Guide

Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
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Dhamangaon Rly.

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A

Project on

"MICROBIOLOGYCAL ANALYSIS OF STORED FOOD IN REFRIGERATOR"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE

IN

MICROBIOLOGY

Submitted By

Miss. Aishwarya Rajesh Marve

M.Sc. Part - II

Supervisor

Miss. Megha Bhoge mam



P. G. DEPARTMENT OF MICROBIOLOGY

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

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P.G DEPARTMENT OF MICROBIOLOGY

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce

Mahavidyalaya, Dhamangaon Rly

Amravati University

CERTIFICATE

This is to certify that the dissertation entitled, " **MICROBIOLOGYCAL ANALYSIS OF STORED FOOD IN REFRIGERATOR"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S.G.B.A.U., Amravati has been prepared by **Miss. Aishwarya R. Marve** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

Dr. G.N.Budhlani
Head
Department of microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Miss. Megha Bhoge
Guide
Department of microbiology

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A

Project on

"ANTIMICROBIALACTIVITYOFEHRETIALEAVESROXB.(KHANDUCHAKKA) PLANT."

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE

IN

MICROBIOLOY

SubmittedBy

Miss. Kajal RajuTupsundare

M.Sc. Part -II

Supervisor

Miss. Sweta D. Dudhe



P. G. DEPARTMENT OF MICROBIOLOGY ADAESHA SCIENCE,JAIRAMDAS BHAGCHANDARTSAND BIRLA COMMERCEMAHAVIDYALAYA, DHAMANGAON RLY.

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P.G DEPARTMENT OF MICROBIOLOG

AdarshaScience,JairamdasBhagchandArtsandBirlaCommerce

Mahavidyalaya,DhamangaonRly

Amravati University

CERTIFICATE

Thisistocertifythatthedissertationentitled,"**ANTIMICROBIALACTIVITYOF EHRETIA LEAVES ROXB. (KHANDU CHAKKA) PLANT.**" is being submitted in the partialfulfillmentfortheawardofdegreeofMasterofScienceinMicrobiology, S.G.B.A.U.,Amravatihasbeenpreparedby**Miss.KajalRajuTupsundare**undermy guidanceandsupervision.Thisworkhasnotbeensubmittedoranyotherdegreeof anyotheruniversityinIndiaorabroad.

Dr.G.N.Budhlani

Head

Department of microbiology

Miss.SwetaD.Dudhe

Guide

Department of microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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19-20 PHY SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Construction and application of Temperature sensor"

Submitted by

Abhishek Mudrake

Aditya A. Yewale

Akash G. Shinganapure

Aparna R. Sapate

B.Sc. II (Sem-III)

Date of Submission: 30/09/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Abhishek Mudrake, Aditya A. Yewale, Akash G. Shinganapure, Aparna R. Sapate** have carried out Project Work entitled **"Construction and application of Temperature sensor"** successfully during the Session 2019-20 for B. Sc. II Semester III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/09/2019

Signature of Teacher in-charge
(Mr. V. S. Thool)

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Head
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Study of Wave particle duality"

Submitted by

Ashwini S. Dasarwar
Hemant B. Uike
Karuna D. Naik
Komal D. Atram

B.Sc. II (Sem-III)

Date of Submission: 30/09/2019

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Ashwini S. Dasarwar, Hemant B. Uike, Karuna D. Naik, Komal D. Atram** have carried out Project Work entitled **"Study of Wave particle duality"** successfully during the Session 2019-20 for B. Sc. II Semester III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/09/2019

Signature of Teacher in-charge
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Study of water Jet packet"

Submitted by

Komal G. Shende
Minakshi M. Wankhade
Nikita R. Wagh
Pooja B. Gawande

B.Sc. II (Sem-III)

Date of Submission: 30/09/2019

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Academic Session: 2019-20

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Komal G. Shende, Minakshi M. Wankhade, Nikita R. Wagh, Pooja B. Gawande** have carried out Project Work entitled **"Study of water Jet packet"** successfully during the Session 2019-20 for B. Sc. II Semester III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/09/2019

Signature of Teacher in-charge
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Sensitive Intruder Alarm Circuit"

Submitted by

Pooja R. Taywade
Prajwal M. Bawane
Pratiksha B. Mankar
Priyanka S. Shastrakar

B.Sc. II (Sem-III)

Date of Submission: 30/09/2019

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Academic Session: 2019-20

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja R. Taywade, Prajwal M. Bawane, Pratiksha B. Mankar, Priyanka S. Shastrakar** have carried out Project Work entitled **"Sensitive Intruder Alarm Circuit"** successfully during the Session 2019-20 for B. Sc. II Semester III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/09/2019

Signature of Teacher in-charge
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Head
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Head Of Physics Deptt.
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... Co...
Dhama...

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Transistor Amplifier Circuit-12 Watts"

Submitted by

Rajendra K. Yadav
Rina A. Damble
Roshani P. Halde
Roshani R. Ghogare

B.Sc. II (Sem-III)

Date of Submission: 30/09/2019

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Academic Session: 2019-20

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Rajendra K. Yadav, Rina A. Damble, Roshani P. Halde, Roshani R. Ghogare** have carried out Project Work entitled **"Transistor Amplifier Circuit-12 Watts"** successfully during the Session 2019-20 for B. Sc. II Semester III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/09/2019

Signature of Teacher in-charge
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19-20 PHY SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Optical/Acoustic Metamaterials"

Submitted by

Abhishek Mudrake

Aditya A. Yewale

Akash G. Shinganapure

Aparna R. Sapate

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2019-20

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Abhishek Mudrake, Aditya A. Yewale, Akash G. Shinganapure, Aparna R. Sapate** have carried out Project Work entitled **"Optical/Acoustic Metamaterials"** successfully during the Session 2019-20 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge
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Department of Physics
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Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Solar Outdoor Air Purifier"

Submitted by

Ashwini S. Dasarwar
Hemant B. Uike
Karuna D. Naik
Komal D. Atram

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2019-20

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Ashwini S. Dasarwar, Hemant B. Uike, Karuna D. Naik, Komal D. Atram** have carried out Project Work entitled **"Solar Outdoor Air Purifier"** successfully during the Session 2019-20 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Optical Atomic Clock"

Submitted by

Komal G. Shende

Minakshi M. Wankhade

Nikita R. Wagh

Pooja B. Gawande

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Komal G. Shende, Minakshi M. Wankhade, Nikita R. Wagh, Pooja B. Gawande** have carried out Project Work entitled **"Optical Atomic Clock"** successfully during the Session 2019-20 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge
(Mr. V. S. Thool)

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Optical Metrology"

Submitted by

Pooja R. Taywade
Prajwal M. Bawane
Pratiksha B. Mankar
Priyanka S. Shastrakar

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2019-20

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja R. Taywade, Prajwal M. Bawane, Pratiksha B. Mankar, Priyanka S. Shastrakar** have carried out Project Work entitled **"Optical Metrology"** successfully during the Session 2019-20 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge
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Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Laser Ignition System"

Submitted by

Rajendra K. Yadav

Rina A. Damble

Roshani P. Halde

Roshani R. Ghogare

B.Sc. II (Sem-IV)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Rajendra K. Yadav, Rina A. Damble, Roshani P. Halde, Roshani R. Ghogare** have carried out Project Work entitled **"Laser Ignition System"** successfully during the Session 2019-20 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

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19-20 PHY SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Quantum Computing"

Submitted by

ANJALI A. BAHURUPI

ANKITA R. CHOUDHARI

ANKITA S. HARSODKAR

B.Sc. III (Sem-V)

Date of Submission: 03/10/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2019-2020

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Anjali A. Bahurupi, Ankita R. Choudhari, Ankita S. Harsodkar** have carried out Project Work entitled **"Quantum Computing"** successfully during the Session 2019-20 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 03/10/2019

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Quantum Dots"

Submitted by
CHAITALI J. TAORI
CHAITALI V. KELODE
GAYATRI K. MORE

B.Sc. III (Sem-V)

Date of Submission: 03/10/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2019-2020

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Chaitali J. Taori, Chaitali V. Kelode, Gayatri K. More** have carried out Project Work entitled **"Quantum Dots"** successfully during the Session 2019 - 20 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 03/10/2019

Signature of Teacher in-charge

Head
Department of Physics

(Dr. Y. B. Gandole)
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Big Bang Model of Elementary Particles"

Submitted by
HARSHA A. SALAME
JUHI P. RAGHUWANSHI
KOMAL B. LAHOTI

B.Sc. III (Sem-V)

Date of Submission: 03/10/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2019-2020

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Harsha A. Salame, Juhi P. Raghuvanshi, Komal B. Lahoti** have carried out Project Work entitled **"Big Bang Model of Elementary Particles"** successfully during the Session 2019-20 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 03/10/2019

Signature of Teacher in-charge

Head
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(Dr. Y. B. Gandole)
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Raman Spectroscopy"

Submitted by
MAYURI D. SURJUSE
NIKITA D. CHAKOLE
PRAGATI D. DUDHE

B.Sc. III (Sem-V)

Date of Submission: 03/10/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Mayuri D. Surjuse, Nikita D. Chakole, Pragati D. Dudhe** have carried out Project Work entitled **"Raman Spectroscopy"** successfully during the Session 2019-20 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 03/10/2019

Signature of Teacher in-charge

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Department of Physics

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Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Development in Nuclear Fusion"

Submitted by

REENA V. GAYAKWAD
SAMIKSHA P. PANPALIYA
SHRUTIKA R. TALE

B.Sc. III (Sem-V)

Date of Submission: 03/10/2019

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2019-2020

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Reena V. Gayakwad, Samiksha P. Panpaliya, Shrutika R. Tale** have carried out Project Work entitled **"Development in Nuclear Fusion"** successfully during the Session 2019-20 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 03/10/2019

Signature of Teacher in-charge

Head
Department of Physics

(Dr. Y. B. Gandole)
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19-20 PHY SEM VI

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

Department of Physics

Theory Project Allotment (2019– 20)

Sub: Physics

B.Sc. III (SEM VI)

S.N.	NAME OF STUDENT (T1)	Name of Project
1	ANJALI A. BAHURUPI	Liquid crystals
2	ANKITA R. CHOUDHARI	
3	ANKITA S. HARSODKAR	
4	CHAITALI J. TAORI	Josephson effect
5	CHAITALI V. KELODE	
6	GAYATRI K. MORE	
7	HARSHA A. SALAME	Physical method of synthesis of nanoparticles
8	JUHI P. RAGHUWANSHI	
9	KOMAL B. LAHOTI	
10	MAYURI D. SURJUSE	Bose Einstein Condensation
11	NIKITA D. CHAKOLE	
12	PRAGATI D. DUDHE	
13	REENA V. GAYAKWAD	Superconductors In Transportation
14	SAMIKSHA P. PANPALIYA	
15	SHRUTIKA R. TALE	
16	SHUBHANGI R. SHRIRHATE	SQUID
17	SIDDHI V. BHANDE	
18	VRUTTIKA R. BHILKAR	
19	MAHESH G. MUNDANE	
20	PRIYANKA A. KUKSE	Nano-scale magnetic materials
21	ASHUTOSH S. BAVASKAR	
22	ABHISHEK N. JADHAO	
S.N.	NAME OF STUDENT (T2)	Name of Project
1	ACHAL P. RAJANKAR	Photonic crystals
2	ANKITA A. WAGHMARE	
3	ARATI V. ZADE	
4	DIVYANI Y. SHARMA	Superfluid Helium
5	GANESH S. NANDANE	
6	KANCHAN P. LAMKASE	
7	KINJAL D. SHAH	Time crystal
8	MAITREYEE K. PATHAK	
9	MONALI S. NIMKAR	
10	PRAJAKTA D. RAJANKAR	Characterization techniques of nanoparticles
11	PRAJWAL S. SHRIRAME	
12	PUJA G. KALE	Green synthesis of nanoparticles
13	RADHIKA M. KANTALE	
14	RAGINI G. RAUT	
15	RANI M. SAHARE	High Tc Superconductors
16	RUSHINI S. BUDHLANI	
17	SAKSHI V. BORKAR	
18	SHVETA K. HIWASE	Applications of Nano-technology in Automobile
19	VAISHNAVI S. ALWADKAR	
20	VISHAKHA R. MUNDHE	
21	ASHWINI N. DHANGARE	

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S.N.	NAME OF STUDENT (T3)	Name of Project
1	AKASH P. BHOGE	Nanotechnology in Medicine
2	DARSHAN R. BHUMBAR	
3	GHANASHREE S JAWADEKAR	Nanotechnology in Agriculture
4	HARSHALI G. TALMALE	
5	KAJAL S. BANNOO	Chemical Methods of synthesis of Nano-particles
6	MONALI C. WAGHMARE	
7	NANDKISHOR M. JIWTODE	
8	NIDHI S. DHAWANE	Carbon nanotubes
9	NISHIKANT L. HATWAR	
10	PRACHI N. GADKARI	Bucky ball
11	PRAFULLA D. VAIRALE	
12	PRANAY G. GHAWAT	
13	PRATIKSHA R. KALE	Graphene
14	SAKSHI DHEMRE	
15	SALONI R. JAISWAL	
16	SANDESH V. SONONE	
17	SUMIT V. SAWANT	MAGLEV
18	YOGITA P. CHUNKHADE	
19	VISHAL MADARE	
S.N.	NAME OF STUDENT (T4)	Name of Project
1	ASHWINI A. MANWATKAR	Piezoelectric crystals
2	MINAKSHI M. RAJANKAR	
3	RAM T. GANDHI	Anti-ferromagnetic materials
4	SAGAR K. SUPALKAR	
5	SHRUTIKA R. WARTHI	Ferri-magnetic materials
6	SUMIT L. CHOUHAN	
7	SURAJ R. UKE	
8	VAISHNAVI P. WAGHE	Fermions
9	PUJA V. WANKHADE	

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Liquid Crystals"

Submitted by

ANJALI A. BAHURUPI
ANKITA R. CHOUDHARI
ANKITA S. HARSODKAR

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2019-2020

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Anjali A. Bahurupi, Ankita R. Choudhari, Ankita S. Harsodkar** have carried out Project Work entitled **"Liquid Crystals"** successfully during the Session 2019-20 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge

Head
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Head Of Physics Deptt.
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Josephson Effect"

Submitted by

CHAITALI J. TAORI
CHAITALI V. KELODE
GAYATRI K. MORE

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2020

Department of Physics

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Academic Session: 2019-2020

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Chaitali J. Taori, Chaitali V. Kelode, Gayatri K. More** have carried out Project Work entitled **"Josephson Effect"** successfully during the Session 2019-20 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Physical Methods of Synthesis of Nanoparticles"

Submitted by

HARSHA A. SALAME
JUHI P. RAGHUWANSHI
KOMAL B. LAHOTI

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2020

Department of Physics

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Academic Session: 2019-2020

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Harsha A. Salame, Juhi P. Raghuvanshi, Komal B. Lahoti** have carried out Project Work entitled **"Physical Methods of Synthesis of Nanoparticles"** successfully during the Session 2019-20 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge

Head
Department of Physics

(Dr. Y. B. Gandole)
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Bose Einstein Condensation"

Submitted by

MAYURI D. SURJUSE

NIKITA D. CHAKOLE

PRAGATI D. DUDHE

B.Sc. III (Sem-VI)

Date of Submission: 12/03/2020

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2019-2020

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Mayuri D. Surjuse, Nikita D. Chakole, Pragati D. Dudhe** have carried out Project Work entitled **"Bose Einstein Condensation"** successfully during the Session 2019-20 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2020

Signature of Teacher in-charge

Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"EXCRETORY ORGANS, GONADS"

Submitted by
AKSHAY RANJITRAO INGLE
B.Sc. II (Sem-III)

Date of Submission: 23.10.2019

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. AKSHAY RANJITRAO INGLE has carried out Project Work entitled **"EXCERTORY ORGANS, GONADS"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:23.10.2019

Head
HEAD
Department of Zoology
Adarsha Mahavidyalaya
Dhamangaon Rly.

Principal
PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"*Scoliodon sarrokawah* (Dogfish) – Habits and habitat"

Submitted by

DIVYA PUNDLIKRAW NIKHADE

B.Sc. II (Sem-III)

Date of Submission: 23.10.2019

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. DIVYA PUNDLIKRAW NIKHADE has carried out Project Work entitled "*Scoliodon sarrokawah* (Dogfish) – Habits and habitat" successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:23.10.2019

Head
Department of Zoology
Adarsha Mahavidyalaya
Dhamangaon Rly.
Department of Zoology

Principal

PRINCIPAL
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& Birla Comm. Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Migration in fishes-Types, causes and significance"

Submitted by

HARSHAL ANILRAO NARODE

B.Sc. II (Sem-III)

Date of Submission: 23.10.2019

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2019-20

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. HARSHAL ANILRAO NARODE has carried out Project Work entitled "Migration in fishes-Types, causes and significance" successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:23.10.2019

Head
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Adarsha Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"PARENTAL CARE IN AMPHIBIA"

Submitted by
MAHAK SATISH MOKATI
B.Sc. II (Sem-III)

Date of Submission: 23.10.2019

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2019-20

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Ku. MAHAK SATISH MOKATI has carried out Project Work entitled "PARENTAL CARE IN AMPHIBIA" successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:23.10.2019

Head

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Topic

"SNAKE VENOM AND ANTIVENOM"

Submitted by
PAPIHA RAVINDRA DABLE
B.Sc. II (Sem-III)

Date of Submission: 23.10.2019

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This is to certify that Ku. PAPIHA RAVINDRA DABLE has carried out Project Work entitled **"SNAKE VENOM AND ANTIVENOM"** successfully during the Session 2019-20 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Date of Submission:23.10.2019

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Topic

"CONCEPT OF GENES"

Submitted by
AKSHAY RANJITRAO INGLE
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Date of Submission: 07.03.2020

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CERTIFICATE

This is to certify that Mr. AKSHAY RANJITRAO INGLE has carried out Project Work entitled **"CONCEPT OF GENES"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"MENDELS LAWS OF HEREDITY"

Submitted by
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Date of Submission: 07.03.2020

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This is to certify that Ku. DIVYA PUNDLIKRAW NIKHADE has carried out Project Work entitled **"MENDELS LAWS OF HEREDITY"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Date of Submission:07.03.2020

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Topic
"LAW OF DOMINANCE"

Submitted by
HARSHAL ANILRAO NARODE
B.Sc. II (Sem-IV)

Date of Submission: 07.03.2020

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CERTIFICATE

This is to certify that Mr. HARSHAL ANILRAO NARODE has carried out Project Work entitled **"LAW OF DOMINANCE"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:07.03.2020

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Topic
"LAW OF SEGREGATION"

Submitted by
MAHAK SATISH MOKATI
B.Sc. II (Sem-IV)

Date of Submission: 07.03.2020

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CERTIFICATE

This is to certify that Ku. MAHAK SATISH MOKATI has carried out Project Work entitled **"LAW OF SEGREGATION"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Date of Submission:07.03.2020

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Topic

"LAW OF INDEPENDENT ASSORTMENT"

Submitted by

PAPIHA RAVINDRA DABLE

B.Sc. II (Sem-IV)

Date of Submission: 07.03.2020

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CERTIFICATE

This is to certify that Ku. PAPIHA RAVINDRA DABLE has carried out Project Work entitled **"LAW OF INDEPENDENT ASSORTMENT"** successfully during the Session 2019-20 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"STRUCTURE OF RESPIRATORY ORGANS"

Submitted by
AASIYA HUSAIN

B.Sc. III (Sem-V)

Date of Submission: 23.10.2019

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CERTIFICATE

This is to certify that Ku. AASIYA HUSAIN has carried out Project Work entitled "STRUCTURE OF RESPIRATORY ORGANS" successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"MECHANISM OF RESPIRATION"

Submitted by
AISHWARYA S. KALE
B.Sc. III (Sem-V)

Date of Submission: 23.10.2019

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This is to certify that Ku. AISHWARYA S. KALE has carried out Project Work entitled "MECHANISM OF RESPIRATION" successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"REGULATION OF VENTILATION IN LUNGS"

Submitted by
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B.Sc. III (Sem-V)

Date of Submission: 23.10.2019

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This is to certify that Ku. ANUSHRI D. NAGPURE has carried out Project Work entitled "REGULATION OF VENTILATION IN LUNGS" successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"EXCHANGE OF GASES"

Submitted by
APARNA D. UIKE
B.Sc. III (Sem-V)

Date of Submission: 23.10.2019

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CERTIFICATE

This is to certify that Ku. APARNA D. UIKE has carried out Project Work entitled "EXCHANGE OF GASES" successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"RESPIRATORY PIGMENTS IN ANIMALS"

Submitted by
HIMANSHU S. SHENDE
B.Sc. III (Sem-V)

Date of Submission: 23.10.2019

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CERTIFICATE

This is to certify that Mr. HIMANSHU S. SHENDE has carried out Project Work entitled "RESPIRATORY PIGMENTS IN ANIMALS" successfully during the Session 2019-20 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in charge

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Topic

"CHEMISTRY, TYPES AND FUNCTION OF RNA"

Submitted by
MAYUR O. TITARE
B.Sc. III (Sem-VI)

Date of Submission: 07.03.2020

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Academic Session: 2019-20

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CERTIFICATE

This is to certify that Mr. MAYUR O. TITARE has carried out Project Work entitled "CHEMISTRY, TYPES AND FUNCTION OF RNA" successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:07.03.2020

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Topic

"M-RNA, t-RNA AND R-RNA AND NON GENETIC RNA"

Submitted by
NIKITA P. JADHAO
B.Sc. III (Sem-VI)

Date of Submission: 07.03.2020

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CERTIFICATE

This is to certify that Ku. NIKITA P. JADHAO has carried out Project Work entitled "M-RNA, t-RNA AND R-RNA AND NON GENETIC RNA" successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

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Topic

"DNA REPLICATION: SEMI CONSERVATIVE METHOD"

Submitted by
NUTAN B. LAWANKAR
B.Sc. III (Sem-VI)

Date of Submission: 07.03.2020

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This is to certify that Ku. NUTAN B. LAWANKAR has carried out Project Work entitled "DNA REPLICATION: SEMI CONSERVATIVE METHOD" successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"EXPERIMENT BY MESSELSON AND STAHL"

Submitted by
OWES R. MUGAL

B.Sc. III (Sem-VI)

Date of Submission: 07.03.2020

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Topic

"CONCEPT OF GENES, ONE GENE ONE ENZYME HYPOTHESIS"

Submitted by
PIYUSHA D. KALBANDE
B.Sc. III (Sem-VI)

Date of Submission: 07.03.2020

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CERTIFICATE

This is to certify that Ku. PIYUSHA D. KALBANDE has carried out Project Work entitled "CONCEPT OF GENES, ONE GENE ONE ENZYME HYPOTHESIS" successfully during the Session 2019-20 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:07.03.2020

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2019-2020

A PROJECT REPORT ON

G2C Model of E-Governance

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

Megha Agrawal

Vimal Pataliya

Arti Bobade

Ashwini Gawande

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

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2019-20

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CERTIFICATE

This is to certify that **Megha Agrawal,Vimal Pataliya,Arti Bobade, Ashwini Gawande** successfully completed the project titled **"G2C Model of E-Governance"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

BUSINESS 2 CONSUMER

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

Himanshu Paul

Shivam Dave

Nadeem Sheikh

Chetan Devdhagale

Rushikesh Pachangane

Under the Guidance of

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2019-20

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CERTIFICATE

This is to certify that **Himanshu Paul, Shivam Dave, Nadeem Sheikh, Chetan Devdhagale, Rushikesh Pachanganehave** successfully completed the project titled" **BUSINESS 2 CONSUMER "** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

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A PROJECT REPORT ON

E-Governance

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

MOHIT SINGH BAGHEL

MOHD. SUFIYAN

YASH TATED

NIKLESH MISHRA

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2019-20

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CERTIFICATE

This is to certify that **MOHIT SINGH BAGHEL,MOHD. SUFIYAN, YASH TATED, NIKLESH MISHRA** have successfully completed the project titled " **E-Governance**" at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

Drop-Shipping Model

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

VAISHNAVI PARSONE

KAJAL THAWARE

PRAGATI MESHRAM

SONIKA SHARMA

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



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CERTIFICATE

This is to certify that **VAISHNAVI PARSONE, KAJAL THAWARE, PRAGATI MESHRAM, SONIKA SHARMA** have successfully completed the project titled " **Drop-Shipping Model**" at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

HEAD
Dept. of Commerce
Adarsha Mahavidyalaya
Dhamangaon Rly

PRINCIPAL
Adarsha Science,
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

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A PROJECT REPORT ON

INTERNET MARKETING

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

HEMANT THAKARE

AKSHAY CHOUDHARI

AKASH WAKODE

ANKUSH MALWAR

AKSHAY BOKADE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2019-20

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This is to certify that **HEMANT THAKARE, AKSHAY CHOUDHARI, AKASH WAKODE, ANKUSH MALWAR, AKSHAY BOKADE** have successfully completed the project titled **" INTERNET MARKETING"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Projeet Guide

(Dr.Rupesh R. Dahake)

Head

HEAD
Dept. of Commerce
Adarsha Sci. Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya
Dhamangaon Rly

Department of Commerce

PRINCIPAL
Adarsha Science,
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

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20-21 BOT SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Bentham and Hooker system of Classification"

Submitted by

Aastha L. Wasnik

B.Sc. II (Sem-III)

Date of Submission: 28/01/2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss** Aastha L. Wasnik has carried out Project Work entitled **"Bentham and Hooker system of Classification"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:

Head

Department of Botany

Head of the Department
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Adarsha Sci., J.B. Arts and
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DHAMANGAON-RLY. (M.S.)

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic
"Concept of Biodiversity"

Submitted by
Anchal V. Nagrikar
B.Sc. II (Sem-III)

Date of Submission: 28/01/2021

Department of Botany
Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss Anchal V. Nagrikar** has carried out Project Work entitled **"Concept of Biodiversity"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

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Adarsha Sc., J. B. Arts & B.
Birla Comm. Mahavidyalaya
DHAMANGAON (RLY.), 444709

PRINCIPAL
Adarsha Science, J.B. Arts
Bi la Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic
"Endosperm types"

Submitted by
Akshata A. Lokhande
B.Sc. II (Sem-III)

Date of Submission: 28/01/2021

Department of Botany
Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss Akshata A. Lokhande** has carried out Project Work entitled **"Endosperm types"** successfully during the Session 2020-21 for Semester III / IV / V / VI in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

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& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Malvaceae Family"

Submitted by

Apeksha S. Garad

B.Sc. II (Sem-III)

Date of Submission: 28/01/2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss Apeksha S. Garad** has carried out Project Work entitled **"Malvaceae Family"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Apiaceae Family"

Submitted by

Ashwini P. Wankhade

B.Sc. II (Sem-III)

Date of Submission: 28/01/2021

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Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss Ashwini P. Wankhade** has carried out Project Work entitled **"Apiaceae Family"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:

Head

Department of Botany

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20-21 BOT SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Prokaryotic and Eukaryotic cell structure"

Submitted by

Aastha L. Wasnik

B.Sc. II (Sem-IV)

Date of Submission: 31.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Aastha L. Wasnik** has carried out Project Work entitled **"Prokaryotic and Eukaryotic cell structure"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Date of Submission:

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DHAMANGAON RLY. 444709

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Cell wall –Structure and Functions"

Submitted by

Achal V. Nagrikar

B.Sc. II (Sem-IV)

Date of Submission: 31.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Achal V. Nagrikar** has carried out Project Work entitled **"Cell wall –Structure and Functions"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Plasma Membrane Structure & Function"

Submitted by

Akshata Lokhande

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Akshata Lokhande** has carried out Project Work entitled **"Plasma Membrane Structure & Function"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

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Date of Submission:

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Nucleus – Ultra structure (nuclear membrane, nuclear pore complex and nucleolus) and functions"

Submitted by

Apeksha S. Garad

B.Sc. II (Sem-IV)

Date of Submission: 31.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Apeksha S. Garad** has carried out Project Work entitled **"Nucleus – Ultra structure (nuclear membrane, nuclear pore complex and nucleolus) and functions"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:

Head

Department of Botany

Head of the Department
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DHAMANGAON-RLY. 444709

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Adarsha Science, J.B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Chloroplast- Structure and Functions"

Submitted by

Ashwini P. Wankhade

B.Sc. II (Sem-IV)

Date of Submission: 31.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Ashwini P. Wankhade** has carried out Project Work entitled **"Chloroplast- Structure and Functions"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

Head of the Department
Department of Botany
Adarsha Science, J.B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

20-21 BOT SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Auxins"

Submitted by
Adarsh T. Upadhyay
B.Sc. III (Sem-V)

Date of Submission: 01/01/2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Adarsh T. Upadhyay** has carried out Project Work entitled **"Auxins"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Botany

Date of Submission:

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Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Active and passive absorption of water"

Submitted by

Aishwarya V. Shastrakar

B.Sc. III (Sem-V)

Date of Submission: 01/01/2021

Department of Botany

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Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Aishwarya V. Shastrakar** has carried out Project Work entitled **"Active and passive absorption of water"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Botany

Date of Submission:

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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Cytokinin"

Submitted by

Niyati S. Kucheriya

B.Sc. III (Sem-V)

Date of Submission: 01/01/2021

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Niyati S. Kucheriya** has carried out **Project** Work entitled **"Cytokinin"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:

Head

Department of Botany

Head of the Department
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Adarsha Science, J. B. Arts and
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DHAMANGAON-RLY, 444709

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Adarsha Science, J. B. Arts &
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Diffusion and Osmosis"

Submitted by

Anjali N. Funde

B.Sc. III (Sem-V)

Date of Submission: 01/01/2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Anjali N. Funde** has carried out Project Work entitled **"Diffusion and Osmosis"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Botany

Date of Submission:

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Diffusion"

Submitted by

Aparna S. Tarale

B.Sc. III (Sem-V)

Date of Submission: 01/01/2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Aparna S. Tarale** has carried out Project Work entitled **"Diffusion"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
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Dhamangaon Rly.

20-21 BOT SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Historical account – Griffith's Expt, Hershey and Chase Expt."

Submitted by

Adarsh T. Upadhyay

B.Sc.III (Sem- VI)

Date of Submission: 30.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Adarsh T. Upadhyay** has carried out Project Work entitled **"Historical account – Griffith's Expt, Hershey and Chase Expt."** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Date of Submission:

Department of Botany

Head of the Department
Department of Botany,
Adarsha Science, J. B. Arts and
Birla Commerce Mahavidyalaya,
Dhamangaon Rly. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"DNA– Chemical composition and Double Helical model"

Submitted by

Aishwarya V. Shastrakar

B.Sc.II (Sem- V)

Date of Submission: 30.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Aishwarya V. Shastrakar** has carried out Project Work entitled **"DNA– Chemical composition and Double Helical model."** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

Head of the Department
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PRINCIPAL
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"DNA replication in Eukaryotes"

Submitted by

Niyati S. Kucheriya

B.Sc.II (Sem- V)

Date of Submission: 30.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

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DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Niyati S. Kucheriya** has carried out **Project** Work entitled **"DNA replication in Eukaryotes"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"DNA Packaging - Nucleosome and Solenoid"

Submitted by

Anjali N. Funde

B.Sc.III (Sem-V)

Date of Submission: 30.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Anjali N. Funde** has carried out Project Work entitled **"DNA Packaging - Nucleosome and Solenoid"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:

Department of Botany

PRINCIPAL
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Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Transposable element in plants (AC-DS system)"

Submitted by

Aparna S. Tarale

B.Sc.III (Sem.-VI)

Date of Submission: 30.07.2021

Department of Botany

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr./Miss Aparna S. Tarale** has carried out Project Work entitled **"Transposable element in plants (AC-DS system)"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Botany

Date of Submission:

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

20-21 CHEM SEM III

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Baeyer strain theory and its limitations"

Submitted by

Ku. Achal S. Jagtap

Ku. Akansha D. Gawande

Ku. Arpita S. Kadu

B.Sc. II (Sem-III)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr. / Miss. **Achal S. Jugtap, Akansha D. Gawande and Arpita S. Kadu** has carried out Project Work entitled **"Bacyer strain theory and its limitations"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Conformational isomerism"

Submitted by

Ku. Bhagyashri A. Waghade

Ku. Bhairavi P. Gandole

Ku. Chhaya R. Dandare

B.Sc. II (Sem-III)

Date of Submission: 30/01/2021

Department of Chemistry

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr. / Miss. **Bhagyashri A. Waghade, Bhairavi P. Gandole and Chhaya R. Dandare** has carried out Project Work entitled **"Conformational isomerism"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

Head
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Geometrical isomerism"

Submitted by

Ku. Pooja D. Chakole,

Ku.Sakshi B. Malode

Ku. Trupti S. Meshram

B.Sc. II (Sem-III)

Date of Submission: 30/01/2021

Department of Chemistry

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja D. Chakole, Sakshi B. Malode, and Trupti S. Meshram** has carried out Project Work entitled **"Geometrical isomerism"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Structure and bonding in carbonyl group"

Submitted by

Ku. Vaishnavi D. Waghade

Ku. Vaishnavi R. Kalsarpe

Ku. Yogita I. Jambhulkar

B.Sc. II (Sem-III)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Vaishnavi D. Waghade, Vaishnavi R. Kalsarpe, and Yogita I, Jambhulkar** has carried out Project Work entitled **"Structure and bonding in carbonyl group"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Optical isomerism"

Submitted by

Ku. Aastha L. Wasnik

Ku. Achal V. Nagrikar

Ku. Akashata Lokhande

B.Sc. II (Sem-III)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.E. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr. / Miss. **Aastha L. Wasnik, Achal V. Nagrikar, and Akashta Lokhande** has carried out Project Work entitled **"Optical isomerism"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

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Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Carbohydrates"

Submitted by

Ku. Achal S. Jagtap

Ku. Akansha D. Gawande
Ku. Arpita S. Kadu

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Chemistry

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Achal S. Jagtap, Akansha D. Gawande and Arpita S. Kadu** has carried out Project Work entitled **"Carbohydrates"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Polypeptides"

Submitted by

Ku. Bhagyashri A. Waghade

Ku. Bhairavi P. Gandole

Ku. Chhaya R. Dandare

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Bhagyashri A. Waghade, Bhairavi P. Gandole and Chhaya R. Dandare** has carried out Project Work entitled **"Polypeptides"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head

Head
Department of Chemistry
Adarsha Science,J.B. Arts & Birla
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Aminoacides"

Submitted by

Ku. Pooja D. Chakole,
Ku.Sakshi B. Malode
Ku. Trupti S. Meshram

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja D. Chakole, Sakshi B. Malode, and Trupti S. Meshram** has carried out Project Work entitled **"Aminoacids"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department of Chemistry
Adarsha Science, J.B. Arts & Birla
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Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Diazonium salts"

Submitted by

Ku. Vaishnavi D. Waghade

Ku. Vaishnavi R. Kalsarpe

Ku. Yogita I. Jambhulkar

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.D. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Vaishnavi D. Waghade, Vaishnavi R. Kalsarpe, and Yogita I, Jambhulkar** has carried out Project Work entitled **"Diazonium salts"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department Of Chemistry
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Polynuclear hydrocarbons"

Submitted by

Ku. Aastha L. Wasnik

Ku. Achal V. Nagrikar

Ku. Akashata Lokhande

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Aastha L. Wasnik, Achal V. Nagrikar, and Akashta Lokhande** has carried out Project Work entitled **"Polynuclear hydrocarbons"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department Of Chemistry
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Principal
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DHAMANGAON Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Photochemical reactions"

Submitted by

Abhishek G. Mudrake
Akash G. Shignapure

B.Sc. III (Sem-V)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr. / Miss. **Abhishek G. Mudrake and Akash G. Shingnapure** has carried out Project Work entitled **"Photochemical reactions"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Chemiluminescence and Bioluminescence"

Submitted by

Ku. Ashwini S. Dasarwar

Ku. Minakshi M. Wankhade

Ku. Nikita R. Wagh

B.Sc. III (Sem-V)

Date of Submission: 30/01/2021

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Academic Session: 2020-2021

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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Ashwini S. Dasarwar, Minakshi M. Wankhade, and Nikita R. Wagh** has carried out Project Work entitled "**Chemiluminescence and Bioluminescence**" successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Fluorescence and Phosporescence"

Submitted by

Ku. Pooja R. Taywade

Ku. Priya P. Borkar

Ku. Priyanka S. Shastrakar

B.Sc. III (Sem-V)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja R. Taywade, Priya P. Borkar, Priyanka S. Shastrakar** has carried out Project Work entitled **"Fluorescence and Phosporescence"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

Head
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Microwave spectroscopy"

Submitted by

Rajendra K. Yadav

Rutwik S. Karlekar

Adarsha T. Upadhyay

B.Sc. III (Sem-V)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr. / Miss. **Rajendra K. Yadav, Rutwik S. Karlekar, and Adarsha T. Upadyay** has carried out Project Work entitled **"Microwave spectroscopy"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

Head
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Principal
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Jaiprakash Bindbrand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON RLY.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Vibrational spectroscopy"

Submitted by

Ku. Sandesh Mundane

Ku. Sanketi B. Taywade

Ku. Shivani V. Bhongade

Ku. Vaishnavi S. Bhutada

B.Sc. III (Sem-V)

Date of Submission: 30/01/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Sandesh Mundane, Sanketi B. Tayde, Shivani V. Bhongade, and Vaishnavi S. Bhutada** has carried out Project Work entitled **"Vibrational spectroscopy"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/01/2021

Head
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Dhamangaon Rly.

Principal
Adarsha Science
Jaibirla Commerce Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Recent advances in the chemistry of triazoles"

Submitted by

Abhishek G. Mudrake

Akash G. Shignapure

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Abhishek G. Mudrake and Akash G. Shingnapure** has carried out Project Work entitled **"Recent advances in the chemistry of triazoles"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department Of Chemistry
Adarsha Science, J.B. Arts &
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jawaharlal Nehru Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Recent development in the field of dithiazoles"

Submitted by

Ku. Ashwini S. Dasarwar
Ku. Minakshi M. Wankhade
Ku. Nikita R. Wagh

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Ashwini S. Dasarwar, Minakshi M. Wankhade, and Nikita R. Wagh** has carried out Project Work entitled **"Recent development in the field of dithiazoles"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya.
Dhamangaon Rly.
Department of Chemistry

Principal
Principal
Adarsha Science
Jahanlal Bajajmand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Recent development in the field of thiazine"

Submitted by

Ku. Pooja R. Taywade

Ku. Priya P. Borkar

Ku. Priyanka S. Shastrakar

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja R. Taywade, Priya P. Borkar, Priyanka S. Shastrakar** has carried out Project Work entitled **"Recent development in the field of thiazine"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly

Department of Chemistry

Principal
Adarsha Science
Jahanvidas Bhargavdas Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Chemistry of Morphaline"

Submitted by

Rajendra K. Yadav

Rutwik S. Karlekar

Adarsha T. Upadhyay

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr. / Miss. **Rajendra K. Yadav, Rutwik S. Karlekar, and Adarsha T. Upadyay** has carried out Project Work entitled **"Chemistry of Morpholine"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Junior College & Mahavidyalaya
Birla Commerce Mahavidyalaya
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Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Chemistry of diazine"

Submitted by

Ku. Sandesh Mundane

Ku. Sanketi B. Taywade

Ku. Shivani V. Bhongade

Ku. Vaishnavi S. Bhutada

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss. Sandesh Mundane, Sanketi B. Tayde, Shivani V. Bhongade, and Vaishnavi S. Bhutada** has carried out Project Work entitled **"Chemistry of diazine"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 31/07/2021

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science,
J.B. Arts and
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

20-21 CPS SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

PROJECT OF COMPUTER SCIENCE

SUBJECT :- Graphics Processing Unit

-:SUBMITTED BY:-

Prajwal Jaywantrao Patil

Mr.Pratik Gajananrao Kalsait

Darpan Mukeshrao Wadaskar

B.Sc. II [SEM III]

Prof. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Scien...
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Prof. S. A. GHOGARE

Ass. Professor

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2020-2021)

PRINCIPAL
Adarsha Scienoe, J. B. Arts &
Birla Commerce Mahavidyalaya,
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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Prajwal Jaywantrao Patil

has carried out Project Work entitled **"Graphics Processing Unit"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Mr.Pratik Gajananrao Kalsait

has carried out Project Work entitled **"Graphics Processing Unit"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Darpan Mukeshrao Wadaskar has carried out Project Work entitled **"Graphics Processing Unit"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
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& Birla Comm. Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

PROJECT OF COMPUTER SCIENCE

SUBJECT :- Internet of Things (IoT)

-:SUBMITTED BY:-

Ku. Vedika Govind Mankar

Ku. Sakshi Sushil Paliwal

B.Sc. II [SEM III]

Prof. M. V. MAWALE

(H.O.D.)

Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Prof. S. A. GHOGARE

Ass. Professor

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2020-2021)

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Ku. Vedika Govind Mankar

has carried out Project Work entitled **"Internet of Things (IoT)"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
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Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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& Birla Comm. Mahavid...
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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Sakshi Sushil Paliwal has carried out Project Work entitled **"Internet of Things (IoT)"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

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Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY

PROJECT OF COMPUTER SCIENCE

SUBJECT :- Big Data

-:SUBMITTED BY:-

Ku. Shweta Sanjayrao Ingale

Ku. Tanvi Vinodrao Gorde

Ku. Vaishnavi Kisanrao Jadhav

B.Sc. II [SEM III]

Prof. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Scie...
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Prof. S. A. GHOGARE

Ass. Professor

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2020-2021)

PRINCIPAL
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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Ku. Shweta Sanjayrao Ingale has carried out Project Work entitled **"Big Data"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla [illegible] Mahavidyalaya
Dhamangaon Rly. - 444 709

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Tanvi Vinodrao Gorde

has carried out Project Work entitled **"Big Data"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavid, ' va
Dhamangaon Rly

20-21 CPS SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-FOG COMPUTING

-:SUBMITTED BY:-

Ku.Trupti H.Dambale

Ku.Vijeta J.Khairkar

B.Sc. III [SEM V]

Prof. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Prof. S. A. GHOGARE

Ass. Professor

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2020-2021)

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss**. Ku. Vijeta Jagdishrao Khairkar has carried out Project Work entitled **" Fog Computing"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Ku. Yashoda Shankarrao Jadhao has carried out Project Work entitled **" Fog Computing"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

-:SUBMITTED BY:-

Ku.Snehal Sushil Shrirame

B.Sc. III [SEM V]

Prof. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Prof. S. A. GHOGARE

Ass. Professor

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2020-2021)

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Adarsha Science, J. B. Arts &
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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Ku. Vrutika Ganeshrao Hatwar has carried out Project Work entitled **" Ethical Hacking on Hacktivism"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Adarsha Science, J.B. Arts

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Ku.Snehal Sushil Shrirame has carried out Project Work entitled **" Ethical Hacking on Hacktivism"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-Machine Learning

-:SUBMITTED BY:-

Mr. Sumit Dipakkumar Sharma

Mr. Swapnil Arvindrao Dagadkar

Mr. Rahul Ashok Patil

B.Sc. III [SEM V]

Prof. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Prof. S. A. GHOGARE

Ass. Professor

DEPARTMENT OF COMPUTER SCIENCE

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Dhamangaon Rly

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Mr. Swapnil Arvindrao Dagadkar has carried out Project Work entitled **" Machine Learning"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
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Adarsha Science, J.B. Arts
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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss**. Mr. Rahul Ashok Patil has carried out Project Work entitled **" Machine Learning"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss.** Mr. Sumit Dipakkumar Sharma has carried out Project Work entitled **" Machine Learning"** successfully during the Session 2020-21 for **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 01/06/2021

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

20-21 ELE AEM VI

Project Report

On
"Alcohol Detector Using MQ-3"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Mr.Rahul Patil

Mr. Ajay Nimakar

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke



Department of Electronics

Adarsha Science, J. B. Arts&Birla Commerce Mahavidyalaya

Dhamangaon(rly) Dist.Amravati

(2020-2021)

CERTIFICATE

This is to certified that project entitled " ~~Smart Dustbin Using Arduino~~ Alcohol Detector Using MQ-3 " has been successfully completed under the guidance of **Dr. S. A. Rodge** and **Mr. S. K. Shelke** in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge BabaAmravati University, Amravati.

Submitted by

Mr.Rahul Patil

Mr. Ajay Nimakar

Mr. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J. B. Arts&Birla Commerce Mahavidyalaya
Dhamangaon(rly) Dist.Amravati
(2020–2021)

Project Report

On

"Metal Detector"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Hritik S. Popalkar

Akash V. Bante

Aniket P. Pusadkar

Sheikh Toied Rahim

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke



Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2020 - 2021)

CERTIFICATE

This is to certified that project entitled "Metal Detector" has been successfully completed under the guidance of **Dr. S. A. Rodge** and **Mr. S. K. Shelke** in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Hritik S. Popalkar
Akash V. Bante
Aniket P. Pusadkar
Sheikh Toied Rahim

Mr. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
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Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
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(External Examiner)

Department of Electronics
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Dhamangaon (rly) Dist. Amravati
(2020 – 2021)

Project Report

On

"Patient Health Monitoring System"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Miss.Jaie R. Pimpalkar

Miss.Kajal S. Yenkar

Miss.Vaishnavi P. Dehankar

Miss.Kanchan P. Talmale

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke



Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2020 - 2021)

CERTIFICATE

This is to certified that project entitled **"~~Project Title~~ Patient Health Monitoring System"** has been successfully completed under the guidance of **Dr. S. A. Rodge** and **Mr. S. K. Shelke** in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Miss.Jaie R. Pimpalkar
Miss.Kajal S. Yenkar
Miss.Vaishnavi P. Dehankar
Miss.Kanchan P. Talmale

Shelke

Mr. S. K. Shelke
(Project Guide)

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Dhamangaon (rly) Dist. Amravati
(2020 – 2021)

Project Report

On

"RAIN DETECTOR ALARM"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillement of the requirement

of final year degree of

Bachelor of Science

Electronics

Submitted by

Ashish Nimbarte
Mahesh Ghate

Ashish Khadase
Prajwal Khandare

Under the Guidance of

Mr.Swapnil K. Shelke



Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2020 - 2021)

CERTIFICATE

This is to certified that project entitled "**Rain Detector Alarm** " has been successfully completed under the guidance of "**Mr.Swapnil K. Shelke**" In recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics, Sant Gadge Baba Amravati University, Amravati

Submitted by

Ashish Nimbarte
Mahesh Ghate

Ashish Khadase
Prajwal Khandare

Mr.Swapnil K.Shelke
(Project Guide)

Dr. S.A. Rodge
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(External Examiner)

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Dhamangaon (rly) Dist. Amravati
(2020 – 2021)

Project Report

On

"Automatic Hand Sanitizer "

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

" **vijeta khairkar**

Monika Raut

Ragini khandare

Komal uparikar

Under the Guidance of

Dr. S. A. Rodge **Mr. S. K. Shelke**



Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2020 - 2021)

CERTIFICATE

This is to certified that project entitled **"Project Title"** has been successfully completed under the guidance of **Dr. S. A. Rodge** and **Mr. S. K. Shelke** in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

vijeta khairkar
Monika Raut
Ragini khandare
Komal uparikar

Mr. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
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(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2020 – 2021)

Project Report

On

'' Smart Dustbin Using Arduino ''

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Shrikant R. Bopache

Jayprakash M. Kaple

Sumit D. Sharma

Bhushan D. Uike

Under the Guidance of

Dr. S. A. Rodge

Mr. S. K. Shelke

Department of Electronics

Adarsha Science, J. B. Arts&Birla Commerce Mahavidyalaya

Dhamangaon(rly) Dist.Amravati

(2020-2021)

CERTIFICATE

This is to certified that project entitled " ***Smart Dustbin Using Arduino*** " has been successfully completed under the guidance of **Dr. S. A. Rodge** and **Mr. S. K. Shelke** in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge BabaAmravati University, Amravati.

Submitted by

Shrikant R. Bopache

Sumit D. Sharma

Jayprakash M. Kaple

Bhushan D. Uike

Mr. S. K. Shelke
(Project Guide)

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Dhamangaon(rly) Dist.Amravati
(2020–2021)

20-21 MICRO SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Physical mutagens"

Submitted by

Aastha Laxmanrao Wasnik

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Aastha Laxmanrao Wasnik has carried out Project Work entitled **"Physical mutagens"** successfully during the Session 2020-21 for Sem III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

Department of Microbiology

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Polymerase chain reaction PCR"

Submitted by

Achal Nagrikar

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Achal Nagrikar has carried out Project Work entitled **"Polymerase chain reaction PCR"** successfully during the Session 2020-21 for Sem III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

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Date of Submission: Winter 2020

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ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Isolation of genomic DNA from bacteria"

Submitted by

Akashata Lokhande

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Akashata Lokhande has carried out Project Work entitled **"Isolation of genomic DNA from bacteria"** successfully during the Session 2020-21 for Sem III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Mutation by acrydene dyes"

Submitted by

Apeksha Shivdatta Garad

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Apeksha Shivdatta Garad has carried out Project Work entitled **"Mutation by acrydene dyes"** successfully during the Session 2020-21 for Sem III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

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ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Characters of genetic code"

Submitted by

Ashwini pramod wankhade

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Ashwini pramod wankhade has carried out Project Work entitled **"Characters of genetic code"** successfully during the Session 2020-21 for Sem III in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

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Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Widal test"

Submitted by

Aastha Laxmanrao Wasnik

Date of Submission: Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Aastha Laxmanrao Wasnik has carried out Project Work entitled **"Widal test"** successfully during the Session 2020-21 for Sem IV in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

Department of Microbiology

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ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Antigenic determinants"

Submitted by

Achal Nagrikar

Date of Submission: Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr./ Miss.** Achal Nagrikar has carried out Project Work entitled **"Antigenic determinants"** successfully during the Session 2020-21 for Sem IV in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

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ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Ig G (Immunoglobulin G)"

Submitted by

Akashata Lokhande

Date of Submission: Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr./ Miss.** Akashata Lokhande has carried out Project Work entitled **"Ig G (Immunoglobulin G)"** successfully during the Session 2020-21 for Sem IV in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

Department of Microbiology

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ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Ig A (Immunoglobulin A)"

Submitted by

Apeksha Shivdatta Garad

Date of Submission: Summer 2021

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Academic Session: 2020-2021

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr./ Miss.** Apeksha Shivdatta Garad has carried out Project Work entitled **"Ig A (Immunoglobulin A)"** successfully during the Session 2020-21 for Sem IV in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

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ADARSHA SCIENCE, J.B.ARTS & BIRLACOMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Ig M (Immunoglobulin M)"

Submitted by

Ashwini pramod wankhade

Date of Submission: Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr./ Miss. Ashwini pramod wankhade has carried out Project Work entitled **"Ig M (Immunoglobulin M)"** successfully during the Session 2020-21 for Sem IV in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

Department of Microbiology
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Symbiotic Nitrogen Fixation"

Submitted by
Adarsh Upadhayay

Date of Submission:Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Adarsh Upadhayay has carried out Project Work entitled **"Symbiotic Nitrogen Fixation"** successfully during the Session 2020-21 for Sem V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

Department of Microbiology

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Bioleaching"

Submitted by
Aishwarya Vinod shastrakar

Date of Submission:Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2020-2021

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Aishwarya Vinod shastrakar has carried out Project Work entitled **"Bioleaching"** successfully during the Session 2020-21 for Sem V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

Department of Microbiology

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Isotopic Tracer technique"

Submitted by
Akshay ingle

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Akshay ingle has carried out Project Work entitled **"Isotopic Tracer technique"** successfully during the Session 2020-21 for Sem V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Biodegradation of pesticides"

Submitted by

Anjali funde

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Anjali funde has carried out Project Work entitled **"Biodegradation of pesticides"** successfully during the Session 2020-21 for Sem V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

Department of Microbiology

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ADARSHA SCIENCE, J.D. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Air sanitation"

Submitted by
Aparna Tarale

Date of Submission: Winter 2020

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Aparna Tarale **has** carried out Project Work entitled **"Air sanitation"** successfully during the Session 2020-21 for Sem V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Winter 2020

Department of Microbiology

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

PRINCIPAL
Adarsha Sci., J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

20-21 MICRO SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Penicillin"

Submitted by

Adarsh Upadhayay

Date of Submission:Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. Adarsh Upadhayay** has carried out Project Work entitled **"Industrial Production of Penicillin"** successfully during the Session 2020-21 for **Semester ~~III / IV / V~~ / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Microbiology

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Date of Submission: Summer 2021

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Microbial Industrial Production of Cellulase"

Submitted by
Aishwarya Vinod Shastrakar

Date of Submission:Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **Aishwarya Vinod Shastrakar** has carried out Project Work entitled **"Microbial Industrial Production of Cellulase"** successfully during the Session 2020-21 for Semester ~~III / IV~~ ~~V~~ / **VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

Department of Microbiology

Head
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Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"Industrial Production of Beer"

Submitted by
Akshay Ingle

Date of Submission:Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHSCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **Akshay Ingle** has carried out Project Work entitled **"Industrial Production of Beer"** successfully during the Session 2020-21 for **Semester ~~III / IV / V~~ / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Microbiology
Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Date of Submission: Summer 2021

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of Amylase (bacterial)"

Submitted by
Anjali Funde

Date of Submission:Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **Anjali Funde** has carried out Project Work entitled **"Industrial Production of Amylase (bacterial)"** successfully during the Session 2020-21 for **Semester ~~III / IV / V~~ / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Microbiology

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
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Dhamangaon Rly.

Date of Submission: Summer 2021

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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Industrial Production of single cell protein"

Submitted by
Aparna Tarale

Date of Submission:Summer 2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHASCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. Aparna Tarale has carried out Project Work entitled "**Industrial Production of single cell protein**" successfully during the Session 2020-21 for Semester ~~III / IV / V~~ / VI in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: Summer 2021

Department of Microbiology
Head
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20-21 PHY SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Construction and application of Temperature sensor"

Submitted by

Abhishekh Sudhakar Bhonge

Achal Sharadrao Jagtap

Akanksha Gajanan Gulhane

Akansha Dineshrao Gawande

B.Sc. II (Sem-III)

Date of Submission: 10/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Abhishekh Sudhakar Bhonge, Achal Sharadrao Jagtap, Akanksha Gajanan Gulhane, Akansha Dineshrao Gawande** have carried out Project Work entitled **"Construction and application of Temperature sensor"** successfully during the Session 2020-21 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/03/2021

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
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Department of Physics
Head Of Physics Deptt.
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Study of Wave particle duality"

Submitted by

Alisha Jayprakash Bhagat

Aniket Anil Gajbhiye

Anusbri Hiramanji Bhagat

Arpita Sunil Kadu

B.Sc. II (Sem-III)

Date of Submission: 10/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Alisha Jayprakash Bhagat Aniket Anil Gajbhiye, Anushri Hiramanji Bhagat, Arpita Sunil Kadu** have carried out Project Work entitled **"Study of Wave particle duality"** successfully during the Session 2020-21 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/03/2021

Signature of Teacher in-charge
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Study of water Jet packet"

Submitted by

Bhagyashree Ashokrao Waghade
Chhaya Ramdasji Dandare
Darpan Mukeshrao Wadaskar
Indrayani Yogirajji Thakare

B.Sc. II (Sem-III)

Date of Submission: 10/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON R.LY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Bhagyashree Ashokrao Waghade, Chhaya Ramdasji Dandare, Darpan Mukeshrao Wadaskar Indrayani Yogirajji Thakare** have carried out Project Work entitled **"Study of water Jet packet"** successfully during the Session 2020-21 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/03/2021

Signature of Teacher in-charge
(Mr. V. S. Thool)

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Sensitive Intruder Alarm Circuit"

Submitted by

Khushi Prasanna Bhandari

Labhanshu Mohanrao Jadhav

Madhuri Prathamraj Bhamkar

Minakshi Gopal Agrawal

B.Sc. II (Sem-III)

Date of Submission: 10/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Khushi Prasanna Bhandari Labhanshu Mohanrao Jadhav, Madhuri Prathamraj Bhamkar, Minakshi Gopal Agrawal** have carried out Project Work entitled **"Sensitive Intruder Alarm Circuit"** successfully during the Session 2020-21 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/03/2021

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Otkar)
Head
Department of Physics
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"The Theory of Relativity, Then and Now"

Submitted by

Nishigandha Subhashrao Kannake

Pallavi Vijayrao Badhiye

Pooja Diliprao Chakole

Prajwala Manoj Tirmare

B.Sc. II (Sem-III)

Date of Submission: 10/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Nishigandha Subhashrao Kannake, Pallavi Vijayrao Badhiye, Pooja Dilipprao Chakole, Prajwala Manoj Tirmare** have carried out Project Work entitled **"The Theory of Relativity, Then and Now"** successfully during the Session 2020-21 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 10/03/2021

Signature of Teacher in-charge
(Mr. V. S. Thool)

(Dr. S. G. Onkar)
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Head Of Physics Dept.
Adarsha Science, J.B. Arts &
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(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

□□□□1)：□4&. □*7

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Optical/Acoustic Metamaterials"

Submitted by

Achal Sharadrao Jagtap

Akanksha Gajanan Gulhane

Akansha Dineshrao Gawande

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Achal Sharadrao Jagtap, Akanksha Gajanan Gulhane, Akansha Dineshrao Gawande** have carried out Project Work entitled **"Optical/Acoustic Metamaterials"** successfully during the Session 2020-21 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

(Dr. S. G. Onkar)
Head
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Adarsha Science, J.B. Arts &
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Solar Outdoor Air Purifier"

Submitted by

Alisha Jayprakash Bhagat
Aniket Anil Gajbhiye
Anushri Hiramanji Bhagat
Arpita Sunil Kadu

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Alisha Jayprakash Bhagat Aniket Anil Gajbhiye, Anushri Hiramanji Bhagat, Arpita Sunil Kadu** have carried out Project Work entitled **"Solar Outdoor Air Purifier"** successfully during the Session 2020-21 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

(Dr. S. G. Onkar)
Head
Department of Physics

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Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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Principal

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Adarsha Science, J. & Arts &
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Optical Atomic Clock"

Submitted by

Bhagyashree Ashokrao Waghade
Chhaya Ramdasji Dandare
Indrayani Yogirajji Thakare

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Bhagyashree Ashokrao Waghade, Chhaya Ramdasji Dandare, Indrayani Yogirajji Thakare** have carried out Project Work entitled **"Optical Atomic Clock"** successfully during the Session 2020-21 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

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Head
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Adarsha Science, J.B. Arts &
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Optical Metrology"

Submitted by

Khushi Prasanna Bhandari
Labhanshu Mohanrao Jadhav
Madhuri Prathamraj Bhamkar
Minakshi Gopal Agrawal

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Khushi Prasanna Bhandari Labhanshu Mohanrao Jadhav, Madhuri Prathamraj Bhamkar, Minakshi Gopal Agrawal** have carried out Project Work entitled **"Optical Metrology"** successfully during the Session 2020-21 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

Signature of Teacher In-charge
(Dr. S. S. Sharma)

(Dr. S. G. Onkar)
Head
Department of Physics
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Adarsha Science, J.B. Arts &
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Adarsha Science, J.B. Arts &
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Laser Ignition System"

Submitted by

Nishigandha Subhashrao Kannake

Pallavi Vijayrao Badhiye

Pooja Diliprao Chakole

Prajwala Manoj Tirmare

B.Sc. II (Sem-IV)

Date of Submission: 31/07/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Nishigandha Subhashrao Kannake, Pallavi Vijayrao Badhiye, Pooja Diliprao Chakole, Prajwala Manoj Tirmare** have carried out Project Work entitled **"Laser Ignition System"** successfully during the Session 2020-21 for **B. Sc. II Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

(Dr. S. G. Onkar)
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(Dr. V. R. Gandole)
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Adarsha Science, J.B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Big bang model of elementary particles"

Submitted by

Abhishek G. Mudrake

Akash G. Shinganapure

Ashwini S. Dasarwar

Minakshi M. Wankhade

B.Sc. III (Sem-V)

Date of Submission: 12/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Abhishek G. Mudrake, Akash G. Shinganapure, Ashwini S. Dasarwar, Minakshi M. Wankhade** have carried out Project Work entitled **"Big bang model of elementary particles"** successfully during the Session 2020-21 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2021

Signature of Teacher in-charge
(G. S. Mendhe)

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Adarsha Science, J.B. Arts &
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(Dr. Y. B. Gandole)
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Standard model of elementary particles"

Submitted by

Nikita R. Wagh

Pooja R. Taywade

Priyanka S. Shastrakar

Rajendra K. Yadav

B.Sc. III (Sem-V)

Date of Submission: 12/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Nikita R. Wagh, Pooja R. Taywade, Priyanka S. Shastrakar, Rajendra K. Yadav** have carried out Project Work entitled "**Standard model of elementary particles**" successfully during the Session 2020-21 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2021

Signature of Teacher in-charge
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Raman spectroscopy"

Submitted by

Rutwik S. Karlekar

Sandesha M. Mundane

Sanketi B. Tayade

Shivani V. Bhongade

B.Sc. III (Sem-V)

Date of Submission: 12/03/2021

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Rutwik S. Karlekar, Sandesha M. Mundane, Sanketi B. Tayade, Shivani V. Bhongade** have carried out Project Work entitled "**Raman spectroscopy**" successfully during the Session 2020-21 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2021

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"UV spectroscopy"

Submitted by

Priya P. Borkar

Vaishnavi S. Bhutada

Samiksha S. Dagwal

B.Sc. III (Sem-V)

Date of Submission: 12/03/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Priya P. Borkar, Vaishnavi S. Bhutada, Samiksha S. Dagwal** have carried out Project Work entitled **"UV spectroscopy"** successfully during the Session 2020-21 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2021

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Recent advances in power amplifiers"

Submitted by

Aditya A. Yewale

Aparna R. Sapate

Karuna D. Naik

Komal G. Shende

B.Sc. III (Sem-V)

Date of Submission: 12/03/2021

Department of Physics

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Aditya A. Yewale, Aparna R. Sapate, Karuna D. Naik, Komal G. Shende** have carried out Project Work entitled **"Recent advances in power amplifiers"** successfully during the Session 2020-21 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 12/03/2021

Signature of Teacher in-charge
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Josephson effect"

Submitted by

Abhishek G. Mudrake

Akash G. Shinganapure

Ashwini S. Dasarwar

Minakshi M. Wankhade

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

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Academic Session: 2020-2021

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Abhishek G. Mudrake, Akash G. Shinganapure, Ashwini S. Dasarwar, Minakshi M. Wankhade** have carried out Project Work entitled **"Josephson effect"** successfully during the Session 2020-21 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Superconductors In Transportation"

Submitted by

Nikita R. Wagh

Pooja R. Taywade

Priyanka S. Shastrakar

Rajendra K. Yadav

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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CERTIFICATE

This is to certify that **Mr. / Miss. Nikita R. Wagh, Pooja R. Taywade, Priyanka S. Shastrakar, Rajendra K. Yadav** have carried out Project Work entitled **"Superconductors In Transportation"** successfully during the Session 2020-21 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"SQUID"

Submitted by

Rutwik S. Karlekar
Sandesha M. Mundane
Sanketi B. Tayade

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

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Academic Session: 2020-2021

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CERTIFICATE

This is to certify that Mr. / Miss. **Rutwik S. Karlekar, Sandesha M. Mundane, Sanketi B. Tayade,** have carried out Project Work entitled **"SQUID"** successfully during the Session 2020-21 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Physical Methods of synthesis of Nano-particles"

Submitted by

Priya P. Borkar

Vaishnavi S. Bhutada

Samiksha S. Dagwal

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. **Priya P. Borkar, Vaishnavi S. Bhutada, Samiksha S. Dagwal** have carried out Project Work entitled **"Physical Methods of synthesis of Nano-particles"** successfully during the Session 2020-21 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Liquid crystals"

Submitted by

Aditya A. Yewale

Aparna R. Sapate

Karuna D. Naik

Komal C. Shende

B.Sc. III (Sem-VI)

Date of Submission: 31/07/2021

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Aditya A. Yewale, Aparna R. Sapate, Karuna D. Naik, Komal G. Shende** have carried out Project Work entitled **"Liquid crystals"** successfully during the Session 2020-21 for **B. Sc. III Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 31/07/2021

Signature of Teacher in-charge
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20-21 ZOO SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"EXCRETORY ORGANS IN AMPHIOXUS"

Submitted by

KU. CHANCHAL G. GAWARLE

B.Sc. II (Sem-III)

Date of Submission: 15.10.2020

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. KU. CHANCHAL G. GAWARLE** has carried out Project Work entitled "**EXCRETORY ORGANS IN AMPHIOXUS**" successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher-in-charge

Date of Submission: 15.10.2020

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"MIGRATION IN FISHES"

Submitted by

KU. DINESHWARI SHELAR

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Date of Submission:15.10.2020

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Academic Session: 2020-2021

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CERTIFICATE

This is to certify that Mr. / Miss. **KU. DINESHWARI SHELAR** has carried out Project Work entitled **"MIGRATION IN FISHES"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Topic

"EVOLUTION OF MAN"

Submitted by

KU. GAVATRI BANTE

B.Sc. II (Sem-III)

Date of Submission:15.10.2020

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Academic Session: 2020-2021

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CERTIFICATE

This is to certify that **Mr. / Miss. GAYATRI BANTE** has carried out Project Work entitled "EVOLUTION OF MAN" successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 15.10.2020

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

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Topic

"LIVING FOSSILS"

Submitted by

KU. GAURI BUDHE

B.Sc. II (Sem-III)

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Academic Session: 2020-2021

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CERTIFICATE

This is to certify that **Mr. / Miss. GAURI BUDHE** has carried out Project Work entitled "LIVING FOSSILS" successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Date of Submission:15.10.2020

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Topic

"HABIT AND HABITAT OF AMPHIBIA"

Submitted by

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Date of Submission:15.10.2020

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CERTIFICATE

This is to certify that **Mr. / Miss. GAURI KHANDARKAR** has carried out Project Work entitled **"HABIT AND HABITAT OF AMPHIBIA"** successfully during the Session 2020-21 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 15.10.2020

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20-21 ZOO SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"CONCEPT OF GENE"

Submitted by

KU. CHANCHAL G. GAWARLE
B.Sc. II (Sem-IV)

Date of Submission: 16.03.2021

Department of Zoology

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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CERTIFICATE

This is to certify that Mr. / Miss. **KU. CHANCHAL G. GAWARLE** has carried out Project Work entitled **"CONCEPT OF GENE"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 16.03.2021

Head

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Topic

"LAW OF DOMINANCE"

Submitted by

KU. DINESHWARI SHELAR

B.Sc. II (Sem-IV)

Date of Submission: 16.03.2021

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Academic Session: 2020-2021

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CERTIFICATE

This is to certify that Mr. / Miss. **KU. DINESHWARI SHELAR** has carried out Project Work entitled **"LAW OF DOMINANCE"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

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Date of Submission: 16.03.2021

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Topic

"LAW OF SEGREGATION"

Submitted by

KU. GAYATRI BANTE

B.Sc. II (Sem-IV)

Date of Submission:16.03.2021

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This is to certify that **Mr. / Miss. GAYATRI BANTE** has carried out Project Work entitled **"LAW OF SEGREGATION"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

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Date of Submission: 16.03.2021

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"LAW OF INDEPENDENT ASSORTMENT"

Submitted by

KU. GAURI BUDHE

B.Sc. II (Sem-IV)

Date of Submission:16.03.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. GAURI BUDHE** has carried out Project Work entitled **"LAW OF INDEPENDENT ASSORTMENT"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 16.03.2021

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly.

Principal

Principal
Adarsha Science
Jr. Arts & Birla Commerce Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"SUPPLEMENTARY FACTOR"

Submitted by

KU. GAURI KHANDARKAR

B.Sc. II (Sem-IV)

Date of Submission:16.03.2021

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Dhamangaon (Rly).

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. GAURI KHANDARKAR** has carried out Project Work entitled **"SUPPLEMENTARY FACTOR"** successfully during the Session 2020-21 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2021

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &

Principal

Principal
Adarsha Science
Jr. Arts & Comm. College

20-21 ZOO SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"TRANSPORT OF OXYGEN"

Submitted by

A. R. INGALE

B.Sc. III (Sem-V)

Date of Submission:15.10.2020

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. A. R. INGALE has carried out Project Work entitled "TRANSPORT OF OXYGEN" successfully during the Session 2020-21 for Semester V in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Date of Submission: 15.10.2020

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J.B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

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Jaramdas Boradchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST'T. AMRAVATI



Topic

"SERICULTURE"

Submitted by

KU. DIVYA NIKHADE

B.Sc. III (Sem-V)

Date of Submission:15.10.2020

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **DIVYA NIKHADE** has carried out Project Work entitled **"SERICULTURE"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 15.10.2020

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

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Adarsha Science
Jaikumardas Bagdharmal Arts
Birla Commerce Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"THE LUNGS"

Submitted by

HARSHAL NARODE

B.Sc. III (Sem-V)

Date of Submission: 15.10.2020

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **HARSHAL NARODE** has carried out Project Work entitled **"THE LUNGS"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:15.10.2020

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
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Dhamangaon Rly

Principal

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Adarsha Science
J.B. Arts & Birla Commerce Mahavidyalaya
DHAMANGAON Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"FISH BIPRODUCTS"

Submitted by

KU. MAHEK MOKATI

B.Sc. III (Sem-V)

Date of Submission:15.10.2020

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. MAHEK MOKATI** has carried out Project Work entitled **"FISH BIPRODUCTS"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 15.10.2020

Head

Department of Zoology

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Adarsha Science, J. B. Arts &
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Principal

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Adarsha Science
Junior College & Degree College
Girls Degree Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"BLOOD GROUPS"

Submitted by

KU. PAPIHA DABLE

B.Sc. III (Sem-V)

Date of Submission: 15.10.2020

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **PAPIHA DABLE** has carried out Project Work entitled **"BLOOD GROUPS"** successfully during the Session 2020-21 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:15.10.2020

Head

Department of Zoology

HEAD
Department of Zoology

Principal

Principal
Adarsha Science
DHAMANGAON Rly.

20-21 ZOO SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST'T. AMRAVATI



Topic

"DNA REPLICATION: SEMI CONSERVATIVE METHOD"

Submitted by

A. R. INGALE

B.Sc. III (Sem-VI)

Date of Submission; 16.03.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. A. R. INGALE has carried out Project Work entitled **"DNA REPLICATION: SEMI CONSERVATIVE METHOD"** successfully during the Session 2020-21 for Semester VI in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Zoology

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Adarsha Science, J. B. Arts &
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Date of Submission: 16.03.2021

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Adarsha Science
Jahagirdar Bhaychand Arts
Birla Commerce Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"ONE GENE ONE ENZYME HYPOTHESIS"

Submitted by

KU. DIVYA NIKHADE

B.Sc. III (Sem-VI)

Date of Submission:16.03.2021

Department of Zoology

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Dhamangaon (Rly).

Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. DIVYA NIKHADE** has carried out Project Work entitled **"ONE GENE ONE ENZYME HYPOTHESIS"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2021

Head

Department of Zoology

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Department of Zoology
Adarsha Science, J. B. Arts &
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"OVERLAPPING GENES"

Submitted by

HARSHAL NARODE

B.Sc. III (Sem-VI)

Date of Submission:16.03.2021

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **HARSHAL NARODE** has carried out Project Work entitled **"OVERLAPPING GENES"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 16.03.2021

Head

Department of Zoology

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Department of Zoology
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Principal

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Adarsha Science
Jawaharlal Bhagchand Arts
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DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"GENETIC CODE AND ITS FEATURES"

Submitted by

KU. MAHEK MOKATI
B.Sc. III (Sem-VI)

Date of Submission:16.03.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **MAHEK MOKATI** has carried out Project Work entitled **"GENETIC CODE AND ITS FEATURES"** successfully during the Session 2020-21 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 16.03.2021

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly.

Principal

Principal
Adarsha Science
Jaiprakash Bajpeyee Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"LAC-OPERON MODEL OF E.COLI"

Submitted by

KU. PAPIHA DABLE

B.Sc. III (Sem-VI)

Date of Submission: 16.03.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

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Academic Session: 2020-2021

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Mr. / Miss. **PAPIHA DABLE** has carried out Project Work entitled **"LAC-OPERON MODEL OF E.COLI"** successfully during the Session 2020-21 for Semester VI in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:16.03.2021

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

Principal
Adarsha Science
Jairamdas Bajorchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

A PROJECT REPORT ON

Basic Of E-commerce

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1.MANSI KADE

2.SNEHA GORDE

3.PUNAM DAHAT

4.VAISHNAVI MAKODE

5.SHWETA BHOYAR

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhageband Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that **Manal Kude, Sneha Gorde, Punam Dubut, Vaishnavi Makade, Shweta Bhoyar** have successfully completed the project titled **" Basic Of E-commerce"** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

B2B ECOMMERCE

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1.SAKSHI JUWARE

2.PRITI TIJARE

3.SHIVANI RAUT

4.AVANTIKA MANDVAGANE

5.ANKITA KHANDARE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dharmangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that **SAKSHI JUWARE,PRITI TIJARE,SHIVANI RAUT ,AVANTIKA MANDVAGANE, ANKITA KHANDARE** have successfully completed the project titled **" B2B ecommerce "** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

E-COMMERCE IN INDIA

Submitted in partial fulfillment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1.PALLAVI BAMNOTE

2.PRANALI ASKARPOHARE

3.SHRADDHA PUSADKAR

4.PRITI BADIYE

5.SNEHA SHABHARKAR

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Dr. RUPESH R. DAHAKE

Assistant Professor

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2020-21

CERTIFICATE

This is to certify that Pallavi Bamnote, Pranali Askarpohure, Shraddha Pusadkar Priti Radiye, Sneha Shabhankar have successfully completed the project titled" E-commerce in India " at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

A PROJECT REPORT ON

E–Banking

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1. NARESH BANDE
2. PRASHANT CHAMLATE
3. VAIBHAV BOTARE
4. SAMIR DAFARE
5. BHUSHAN ROKADE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that Naresh Bande,Prashant Chamlate,Vaibhav Botare,Samir Dafare, Bhushan Rokade have successfully completed the project titled" E-Banking " at Adarsha Science, Jairamdas Bhageland Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester. Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

E-commerce

Submitted in partial fulfillment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1.Tejas Bhagwat

2.Mohan Shinde

3.Rutwik Ingale

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya.

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that Tajas Bhagwat, Mohan Shinde, Ruturik Ingale have successfully completed the project titled" E-commerce " at Adarsha Science, Jairamdas Bhugchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

Study of Flipkart digital marketing strategy

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1)SHRDHHA PUSADKAR

2)SNEHA SHAMBHARKAR

3)POOJA WANKHADE

4)TEJASWINI WAGHAMARE

5)PRIYA DHOMANE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that **Shrdhha Pusadkar,Sneha Shambharkar,Pooja Wankhade,Tejaswini Waghamare,Priya Dhamane** have successfully completed the project titled " Study of Flipkart digital marketing strategy" at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Sixth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

BUSINESS MODEL OF HOTSTAR & AMAZON PRIME

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1. DIPALI THAKARE

2. GAYATRI SHIRSHATE

3. DHANASHRI GAWANDE

4. ASHAWINI PARISE

5. PRANALI RAUT

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that **Dipali Thakare, Gayatri Shirbhate, Dhanashri Gawande, Ashwini Parise, Pranali Raut** have successfully completed the project titled **" BUSINESS MODEL OF HOTSTAR & AMAZON PRIME "** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Sixth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Dept. of Commerce

Department of Commerce

Dhamangaon Rly

PRINCIPAL

Adarsha Science J. B. Arts

& Birla Comm. Mahavidyalaya

Dhamangaon Rly.

A PROJECT REPORT ON

E-COMMERCE SUBSCRIPTION MODEL WEB SITE.

Submitted in partial fulfillment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1. AARTI KOMRE

2. ARTI ALONE

3. SAMIKSHA SHENDE

4. PAYAL THAKARE

5. KUNAL KUYATE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati,

2020-21

CERTIFICATE

This is to certify that **AARTI KOMBE, ARTI ALONE,SAMIKSHA SHENDE,PAYAL THAKARE,KUNAL KUYATE** have successfully completed the project titled " **E-COMMERCE SUBSCRIPTION MODEL WEB SITE.** " at Adarsha Science, Jairamdas Bhageband Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Sixth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

HEAD
Dept. of Commerce
Dhamangaon Rly

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

STUDY OF FLIPKART BUSINESS MODEL

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1) HARSHADA BHERDE

2) ACHAL BHENDE

3) VRUSHALI MEHENGE

4) VAISHNAVI GULHANE

5) PALLAVI KAMBLE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that **HARSHADA BHERDE,ACHAL BHENDE,VRUSHALI MEHENGE,VAISHNAVI GULHANE,PALLAVI KAMBLE** have successfully completed the project titled " **STUDY OF FLIPKART BUSINESS MODEL**" at Adarsha Science, Jairamdas Bhageband Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Sixth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

HEAD
Dept. of Commerce
Dhamangaon Rly

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

A PROJECT REPORT ON

Study of Amazon Business Model

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

1. MANJIRI SATHWANE

2. PALLAVI SARODE

3. YUGESHVARI SARODE

4 VIDYA BELE

5 KARISHMA MOON

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2020-21

CERTIFICATE

This is to certify that **MANJIRI SATHWANE, PALLAVI SARODE, YUGESHVARI SARODE, VIDYA BELE, KARISHMA MOON** have successfully completed the project titled **" Study of Amazon Business Model "** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Sixth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

Project Guide

(Dr.Rupesh R. Dahake)

Head

Department of Commerce

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

- Project Topic –

Bignonia stem

Submitted by : vaishanavi prakash pethe

B.Sc. Part II Sem III (MCB)

Date of submission: - / / 2021-22

Department of Botany

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly, Dist. Amravati 444709

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (Sem-3) during the session 2021-2022

Project Topic: - Bignonia stem

Signature
Teacher in charge

Head,
Department of botany

Head of
Department of
Adarsha Science, J.B. Arts and
Birla Commerce Mahavidyalaya,
DHAMANGAON (RLY), 444 709

Date: -

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Adarsh Science and JB Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly

Topic

Engler And Prantl System Of Classification

• Department Name •

BOTONY

• Name of the Student •

Ku. Khushali Pundlikrao Tarhekar

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

→ **Guided By** ←

Mr. S.T. Pendam Sir

and

Mr. S.P. Patil Sir

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by Ku. Khushali Pundlikrao Tarhekar of B.Sc. II (Sem 3) during the session 2021-2022.

Project Topic

Engler and Prantle's System of classification

Signature
Teacher in charge

Head
Department of Botany

Head of Department of Botany
Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, DHAMANGAON (RLY.) 444 709

PRINCIPAL
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

Topic

-Anomalous Secondary Growth in Boerhavia Stem-

Department Of Botany

• Name of the Student •

Ku. Sakshi Badhiye.

• Class : B.Sc. II Year (Sem III) •

• Group: MCB•

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (Sem III) during the session (2021-2022)

Assignment Topic: - Anamolous Scondary Structure in Boerhavia Stem.

Signature
Teacher in charge

Head,
Department of Botany.

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
Birla Nagar, Dhamangaon Rly.
DHAMANGAON-RLY. 444 709

Date: -

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

ϵϽ Topic ϵϽ

primary structure of dicot ROOT

• Department Name •

BOTONY

• Name of the Student •

Sahil Nilesh Bhoyar

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

Date of submission : / /2021

→ **Guided By** ←

Mr. S.T. Pendam Sir

and

Mr. S.P. Patil Sir

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been ried out by following students of B.Sc. II (Sem-3) during the session 21-2022

Project Topic: - primary structure in dicot root

Signature
Teacher in charge

Head,
Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Date: -

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

Topic

Anatomy of root, primary structure of dicot and monocot root

• Department Name •

BOTONY

• Name of the Student •

Pratik Vijayrao Nagrikar

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

→ Guided By ←

Mr. S.T. Pendam Sir

and

Mr. S.P. Patil Sir

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been ied out by following students of B.Sc. II (Sem-3) during the session 2021-2

ect Topic: - Anatomy of root, primary structure of dicot and monocoat root

Signature
Teacher in charge

Head,
Department of ~~Chemistry~~. Botany

PRINCIPAL
Adarsha Science, J. B. Arts &

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (Sem IV) during the session (2021-2022)

Project Topic: - Perioxysome and Mitochondria

Signature
Teacher in charge

Head,
Department of Botany.
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Date: - 22.04.2022

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Scanned with OKEN Scanner

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss.** KU. SONALI ANIL KALPANDE has carried out Project Work entitled CROSSING OVER successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 22/04/2022

~~**Botany**~~

Head
Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

Principal
PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

Department of Botany

CERTIFICATE

This is to certify that **Miss Krishna Chandak** has carried out Project Work entitled **"Chloroplast"** successfully during the Session 2021-22 for B.Sc. Part II **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 21.04.2022

Head

Department of botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss. Anuradha Padurang Pinjari** has carried out Project Work entitled **"Plasma membrane structure and function"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head of Department Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (SemIV) during the session (2021-2022)

Project Topic: - Prokaryotic cell and Eukaryotic Cell.

Signature
Teacher in charge

Head,
Department of Botany.

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Date: -22.04.22

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Department Of Botany

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



CERTIFICATE

This is to certify that the project work submitted in this report has been Carried out by **Pratik V. Nagrikar**B.Sc. Part II (SEM. IV) during the session 2021-2022

Tital of Project:

" Cell cycle: Mitosis and Meiosis "

Signature of the Teacher Incharge

Date : 21-04-2022

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya

Head

Department of botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON (R.L.Y.)

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF Botany

CERTIFICATE

This is to certify that **Mr./Miss. Vaishnavi Pethe** has carried out Project Work entitled " Nomenclature of Enzyme" successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 18/04/2022

Department of Botany
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON RLY. 444 709

Principal
PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Department Of Botany

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

CERTIFICATE

This is to certify that the project work submitted in this report has been Carried out by **Sahil N. Bhoyar** B.Sc. Part II (SEM. IV) during the session 2021-2022

Title of Project:

" chromosome – morphology, types, centromere & telomere "

Signature of the Teacher Incharge

Date: - 21/04-2022

Head

Department of botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr. / Miss**. Tejas Sanjayrao Gawarle has carried out Project Work entitled" **Gene Mutations-Spontaneous and Induced** " successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:22/04/2022

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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DEPARTMENTOFBOTANY

CERTIFICATE

This is to certify that ~~Mr.~~ / **KhushaliPundlikraoTarhekar**has carried out Project Workentitled **"Nucleus"**successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of SantGadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

SignatureofTeacherin-charge

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY, 444 709

Principal

Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Date of Submission: 25/04/2022

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SANT GADAGE BABA AMRAVATI UNIVERSITY
AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

PROJECT ON

TOPIC NAME: Ascent of sap

SUBMITTED BY

NAME OF THE STUDENT: Akshata A. Lokhande.

BSC PART III

(SEMISTER V)

(MCB)

GUIDED BY

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following Students of B.Sc. Part III (SEM. V) during the session 2021-2022.

Submitted by

Akshata A. Lokhande.

Project Topic

" Ascent of sap "

Signature of the Teacher In charge

Date:

Head

Department of Botany

PRINCIPAL
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

:PROJECT ON:

Metabolism – Source of Nitrogen, Nitrogen Fixation And It's Role

:SUBMITTED BY:

KU. NIKITA G. KARANGALE

B.SC PART III

(SEMISTER V)

(MCB)

:GUIDED BY:

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. V) during the session 2021-2022.

:SUBMITTED BY:

KU. NIKITA G. KARANGALE

:PROJECT TOPIC:

Metabolism- Source of Nitrogen, Nitrogen Fixation And It's Role

Signature of the Teacher In charge

Date: 02-12-2021

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya.
Dhamangaon Rly

SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

:PROJECT ON:

PLANT MOVEMENT AND NASTIC MOVEMENT

:SUBMITTED BY:

KU. SHIVANI RAJU BHALERAO

B.Sc PART III

(SEMISTER V)

(MCB)

:GUIDED BY:

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. V) during the session 2021-2022.

:Submitted by:

KU. SHIVANI RAJU BHALERAO

:Project Topic:

PLANT MOVEMENT AND NASTIC MOVEMENT

Signature of the Teacher In charge

Date: 3/12/21

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
Department of Botany

SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

PROJECT ON

TOPIC NAME:" **Mineral absorption** "

SUBMITTED BY

NAME OF THE STUDENT: Bhagyashri V. Wanjari

BSC PART III

(SEMISTER V)

(MCB)

GUIDED BY

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by followingstudents of B.Sc. Part III (SEM. V) during the session 2021-2022.

Submitted by

Bhagyashri V. Wanjari

Project Topic

" Mineral absorption"

Signature of the Teacher In charge

Date: 29-11-21

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyal
DHAMANGAON RLY
Department of Botany

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA DHAMANGAON (RLY)



Department Of Botany

Project on

"Growth, Phase of Growth and Growth Curve"

Submitted By

Miss. Palak A. Raut

B. Sc. III (Sem.V)

(MCB)

Guided by

Prof. S.T.Pendam Sir

Prof. S.P. Patil Sir

2021 -2022

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2021-2022.

Submitted By

Miss. Palak A. Raut

Project Topic -

""Growth, Phase of Growth and Growth Curve"

Signature of Teacher In charge

Date -22/11/2021

Head

Department of Botany

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY, 444 709

ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAY
A,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This istocertifythat **Mr. / Miss. – Shivani R.Bhalerao** has carried out ProjectWorkentitled **"-Gene Amplifiction** "successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacherin-charge

Head

Date of Submission:
23.04.2022

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. VI) during the session 2021-2022.

Submitted by

Akshata A. Lokhande.

Project Topic

"DNA replication in eukaryotes"

Signature of the Teacher In charge

Date: 20-01-2022

Head

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Commerce Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Department of Botany

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE

MAHAVIDYALAYA,DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss. Shraddha D.Pingari** has carried out Project Work entitled **"Growth Hormones"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 21/04/2022

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. VI) during the session 2021-2022.

Submitted By

Ku. SEJAL BABANRAO CHOUDHARI

Project Topic

GENE SOURCE: GENOMIC AND c-DNA LIBRARY

Signature of the Teacher In charge

Date:- 18-04-2022

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head

Department of Botany
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. VI) during the session 2021-2022.

Submitted By

DIKSHA SHASHIKANT CHOUBE

Project Topic

GENE EXPRESSION - CENTRAL DOGMA

Signature of the Teacher In charge

Date:- 18-04-22

Head
Head of the Department
Department of Botany
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2021-2022.

Submitted By

Miss. Palak A. Raut

Project Topic -

"PROTEIN TRAFFICKING "

Signature of Teacher In charge

Date - 18/04/2021

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci. J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2021-2022.

Submitted By

Miss.Janavi H. Titare

Project Topic -

"Endomembranesystem"

Signature of Teacher In charge

Date - 18/04/2021

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY.

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAY
A,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This istocertifythat **Mr. / Miss. Kanchan A. Nyahare** has carried out ProjectWorkentitled **"Regulation of Gene Expression In Prokaryotes"**successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 19/04/2022

Departmentof Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Scanned with OKEN Scanner

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDYALAY , DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to verify that the project work submitted in this report has been carried out by following students of B.Sc . lll (Sem.VI) during the session 2021-2022 .

Submitted By

Miss . Vaishnavi L. Kardikar

Project on

"Protoplast Culture and Somatic Hybridization"

Signature of Teacher In charge

Date : 22-04-22

Head

Department botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Scanned with OKEN Scanner

ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAY
A,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This istocertifythat **Mr. / Miss. Ashwini P.Wankhade**

has carried out ProjectWorkentitled **"Ac/ Dc Transposable Element in Maize"**successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 19/04/2022

Head

Departmentof Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts & C.
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Scanned with OKEN Scanner

21-22 CHEM SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(*Project report submission as a part of internal assessment*)

Topic:-

"METALLIC BONDING"

Submitted By-

Mr. Aditya Nare

Mr. Aditya Ahir

Mr. Bhavesh tapre

B.Sc. Part II (Sem.III)

Date of submission :-

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly.)

2021-2022

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem.III) during the session 2021-2022.

1) Aditya Nare
2) Aditya Ahir
3) Bhavesh tapre

Project Topic:
"METALLIC BONDING"

30/12/21

Signature of Teacher in charge

Manohare
Head
Department of Chemistry
Adarsha Science J.B. Arts & Birla
Mahavidyalaya,

Head
Department of Chemistry

Date- 22/12/2021

Principal

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Molecular Orbital Structure Of Heteronuclear Diatomic Molecules"

By

1. Aachal .R. Dafe

2. Achal .D. Pinjari.

3. Rashmi .N. Raut.

B.Sc.-II (Sem. III)

Date of submission – 29/12/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem.III) during the session 2021-2022.

1. Aachal .R. Dafe

2. Achal .D. Pinjari.

3. Rashmi .N. Raut.

Project Topic:

"Molecular Orbital Structure Of Heteronuclear Diatomic Molecules "

29/12/21

Signature of Teacher in charge

Date- 29/12/21

Bmanohare

Head

Department Of Chemistry

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly.

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Molecular structure of homonuclear diatomic molecules"

By

1) Anuradha Prakash Bagade

2) Vaidehi Vilas Khedekar

B. Sc. II (Sem. III)

Date of submission – 29-12-21

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly.)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem.III) during the session 2021-2022.

1) Anuradha Prakash Bagade

2) Vaidehi Vilas Khedekar

Project Topic:

"Molecular structure of homonuclear diatomic molecules"

29/12/21

Signature of Teacher in charge

Date- 29-12-21

Head
Department Of Chemistry
Adarsha Science, Jairamdas & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Choice Of Suitable Indicator In Volumetric Analysis"

By

1. Chanchal .R. Jadhao .

2. Shruti .R. Thakur .

3. Yogita .B. Kale .

B.Sc.-II (Sem. III)

Date of submission – 22/12/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem.III) during the session 2021-2022.

1) Chanchal .R. Jadhao .

2) Shruti .R. Thakur .

3) Yogita .B. Kale .

Project Topic:

'' Choice Of Suitable Indicator In Volumetric Analysis''

22/12/21

Signature of Teacher in charge

Date- 22/12/21

Head
Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya.
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(*Project report submission as a part of internal assessment*)

Topic:-

"VSEPR THEORY"

Submitted By

Mr. Rutik Manohare
Mr. Ruttik Shende
Mr. Tejas Tale

B.Sc. Part II (Sem.III)
Date of submission:-27/12/2021

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly.)

2021-2022

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem-III) during the session 2021-2022.

1) Rutik Manohare
2) Ruttik Shende
3) Tejas Tale

Project Topic:

"VSEPR THEORY"

27/12/21

Signature of Teacher in charge
Date- 27/12/2021

Manohare

Head
Department of Chemistry

Department Of Chemistry
Adarsha Science,J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science

21-22 CHEM SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Analysis of Drinking Water"

Submitted by-

1. Ku. Aashumi Kucheriya

2. Ku. Akansha Kharbade

3. Ku. Anuradha Pinjari

B.Sc. II (Sem-IV)

Date of Submission: 13/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr./Miss. Aashumi Kucheriya, Aakansha Kharbade, and Anuradha Pinjari** has carried out Project Work entitled **"Analysis of Drinking Water"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of **Sant Gadge Baba Amravati University**, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 13/04/2022

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Inner Transition Elements"

Submitted by

1. Ku. Gayatri Nikam

2. Ku. Gayatri Chandure

3. Ku. Punam Chakole

B.Sc. II (Sem.-IV)

Date of Submission: 13/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly),

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr./Miss. Gayatri Nikam, Gayatri Chandure, and Punam Chakole** has carried out Project Work entitled **"Inner Transition Elements"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 13/04/2022

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Methods of Purification of Industrial Waste Water"

Submitted by

1. Sankalp Malviya

2. Pratik Nagrikar

3. Sahil Bhoyar

4. Tejas Gawarle

B.Sc. II (Sem.-IV)

Date of Submission: 13/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr./Miss. Sankalp Malviya, Pratik Nagrikar, Sahil Bhoyar, and Tejas Gawarle** has carried out Project Work entitled **"Methods of Purification of Industrial Waste Water"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 13/04/2022

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Electronic Configuration of d-Block Elements"

Submitted by

1. Ku. Payal Chaware

2. Ku. Sakshi Thakare

B.Sc. II (Sem.-IV)

Date of Submission: 13/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr./Miss. **Payal Chaware and Sakshi Thakare** has carried out Project Work entitled **"Electronic Configuration of d-Block Elements"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Date of Submission: 13/04/2022

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Comaers Mahavidyalaya
DHAMANGAON Rly.

Principal

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Lanthanides"

Submitted by

1. Ku. Sonali Kalpande
2. Ku. Sakshi Badhiye
3. Ku. Shital Kokate

B.Sc. II (Sem.-IV)

Date of Submission: 13/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr./Miss. **Sonali Kalpande, Sakshi Badhiye,** and **Shital Kokate** has carried out Project Work entitled **"Lanthanides"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 13/04/2022

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

21-22 CHEM SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Sidgwick Electronic Theory"

By

1) Ku. Gauri D. Khandarkar

2) Ku. DineshwariJ. Shelar

3) Ku. Chanchal G. Gawarle

B. Sc. III (Sem. V)

Date of submission:15/12/2021

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

2021-2022

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2021-2022.

1) Ku. Gauri D. Khandarkar

2) Ku. Dineshwari J. Shelar

3) Ku. Chanchal G. Gawarle

Project Topic:

"Sidgwick Electronic Theory"

Asadatale

Signature of Teacherin charge

Date 17.12.21

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jairamdas Bhagchand Arts

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

" Werner's Theory Of Co-ordination"

By

1) Isha V.Unone

2) Pratiksha G. Bhoyar

3) Gauri A. Budhe

4) Gayatri P. Bante

B. Sc. III (Sem. V)

Date of submission : 13-12-2021

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce

Mahavidyalaya Dhamangaon (Rly)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III(Sem.V) during the session 2021-2022.

1) *Isha V.Unone*

2) *Pratiksha G.Bhoyar*

3) Gauri A. Budhe

4) Gayatri P.Bante

Project Topic:

"Werner's Theory Of Co-ordination"

Signature of Teacherin charge

Date 13-12-21

Head
Department Of Chemistry
Arts, Science & Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Crystal Field Theory "

By

1) Miss. Priti S. Sultane.
2) Miss. Pradnya M. Wasnik.
3) Miss. Pallavi R. Chimurkar.

B. Sc. III (Sem. V)

Date of submission – 15/12/2021

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

2021-2022

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2021-2022.

1) Miss. Priti S. Sultane.

2) Miss. Pradnya M. Wasnik.

3) Miss. Pallavi R. Chimurkar.

Project Topic:

"Crystal Field Theory"

Signature of Teacher in charge

Date- 17-12-21

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jaiswardas Bhagchand Arts
Birla Commerce Mahavidyalaya

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

(Project report submission as a part of internal assessment)

Topic

"Valence Bond Theory of Transition Metal Complexes"

By

1) Sakshi A. Nikam
2) Sakshi V. Pole
3) Sakshi R. Shirame

B. Sc. III (Sem. V)

Date of submission – 15/12/2021

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

2021-2022

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2021-2022.

1) Sakshi A. Nikam

2) Sakshi V. Pole

3) Sakshi R. Shirame

Project Topic:

"Valence Bond Theory Of Transition Metal Complexes"

Signature of Teacher in charge

Date- 19-12-2021

Head
Department Of Chemistry
Adarsha Science, J.B. Arts and
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya

SANT GADGE BABA AMRAVATI UNIVERSITY,

AMRAVATI

ADARSH SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY

Topic
"Chelates-Classfication & Application"

Submitted by

Miss. Sakshi Manoj Shinde

Miss. Shreya Vinod Kandalkar

B. Sc. III (Sem. V)

Date of submission :15-12-2021

Department of chemistry

Adarsha Science, J. B. Arts and Birla commerce Mahavidyalaya

Dhamangaon (Rly)

Academic session:2020-2021

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem. V) during the session 2020-2021.

1) Miss. Sakshi Manoj Shinde
2) Miss. Shreya Vinod Kandalkar

Project Topic:

"Chelates-Classfication & Application"

Signature of Teacher in charge

Date- 17-12-21

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science

21-22 CHEM SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHASCIENCE, J. B.ARTS & BIRL ACOMMERCE MAHAVIDYALAYA,

DHAMANN RLY., DIST. AMRAVATI



Topic

"Electronic Spectroscopy"

Submitted by

Ku. Achal Jagtap

Ku. Akansha Gawande

Ku. Arpita Kadu

B.Sc.III(Sem-VI)

Date of Submission: 16/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya Dhamangaon (Rly).

AcademicSession:2021-2022

ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAYA,

DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENTOFCHEMISTRY

CERTIFICATE

This is to certify that **Miss.AchalJagtap,Miss.AkanshaGawande and Miss.ArpitaKadu** has carried out ProjectWorkentitled **"Electronic Spectroscopy"**successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Dmanohare

Signature of Teacher in charge

Dmanohare

Head

Department Of Chemistry

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Date of Submission: 16/04/2022.

Principal

Adarsha Science

Jaisamdas Bhagchand Arts

Birla Commers Mahavidyalaya

DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DIST.AMRAVATI



Topic

"INFRARED SPECTROSCOPY"

Submitted by

1. **Bhairavi P. Gandole**
2. **Bhagyashri A. Waghade**
3. **Sakshi B. Malode**

B.Sc. III (Sem-VI)

Date of Submission: 16/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Miss. Bhairavi P. Gandole, Bhagyashri A. Waghade and Sakshi B. Malode** has carried out Project Work entitled **"Infrared Spectroscopy"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 16/04/2022

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commers Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"NMR Spectroscopy"

Submitted by

Chhaya R. Dandare
Trupti S. Meshram
Vaishnavi R. kalsarape

B.Sc. III(Sem-VI)

Date of Submission: 16/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Mr. / Miss**. -Chhaya R. Dandare. Trupti S. Meshram **and Vaishnavi R. kalsarape** has carried out Project Work entitled **"NMR spectroscopy"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 16/04/2022

Head
Department Of Chemistry
Adarsha Science J.B. Arts & Birla
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Principal
Adarsha Science
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Birla Commerce Mahavidyalaya

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE

MAHAVIDYALAYA, DHAMANGAON RLY. DIST. AMRAVATI



Topic

"ESR SPECTROSCOPY"

Submitted by

1) Ku. Shweta Kale

2) Ku. Nikita Chavade

3) Ku. Sonali Parkhande

B.Sc. III (Sem-VI)

Date of Submission: 26/04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly.), dist. Amravati

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY, DIST. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Miss.Shweta Kale, Miss.Nikita Ghavade** and **Miss.Sonal Parkhande** has carried out Project Work entitled **"ESR SPECTROSCOPY"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 26/04/2022

Head
Department Of Chemistry
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
Adarsha Science
Jairamdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY, DIST. AMRAVATI



Topic

" PLANCK'S QUANTUM THEORY OF RADIATION"

Submitted by
Ku. Aastha L. Wasnik
Ku. Aachal V. Nagarikar
Ku. Akshata A. Lokhande

B. Sc. III (Sem-VI)

Date of Submission: 13 /04/2022

Department of Chemistry

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY, DIST. AMRAVATI

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Miss. Aastha L. Wasnik, Aachal V. Nagarikar and Akshata A. Lokhande** has carried out Project Work entitled " **Planck's Quantum Theory of Radiation** "successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 13 /04/2022

Head
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Adarsha Science, J.B. Arts &
Commerce Mahavidyalaya,
Dhamangaon Rly.

Department of Chemistry

Principal
Adarsha Science
Jeramdas Bhagchand Arts
Birla Commerce Mahavidyalaya
DHAMANGAON Rly.

21-22 CPS SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Role of Social Media in Education

-:SUBMITTED BY:-

Sampada Virendra Wankhade

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Sampada Virendra Wankhade** has carried out Project Work entitled **"Role of Social Media in Education"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

Department of Computer Science

Head
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Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Principal

PRINCIPAL
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Dhamangaon Rly.

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY

PROJECT

ON

SUBJECT :-

Role of Social Media in Education

-:SUBMITTED BY:-

Shital Digambar Rajankar

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

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DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Shital Digambar Rajankar** has carried out Project Work entitled **"Role of Social Media in Education"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

Department of Computer Science

Head
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

PROJECT

ON

SUBJECT :-

Role of Social Media in Education

-:SUBMITTED BY:-

Shivani Bhanudasji Nachankar

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

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Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Shivani Bhanudasji Nachankar** has carried out Project Work entitled "**Role of Social Media in Education**" successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Big Data Analytics

-:SUBMITTED BY:-

Shivani Nilkanth Choudhari

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

Head
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Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Shivani Nilkanth Choudhari** has carried out Project Work entitled **"Big Data Analytics"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

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Head
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Big Data Analytics

-:SUBMITTED BY:-

Shravani Vinod Thaknaik

B.Sc. II [SEM III]

Dr. M. V. MAWALE

(H.O.D.)

Head
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DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Shravani Vinod Thaknaik** has carried out Project Work entitled **"Big Data Analytics"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

Department of Computer Science

Head
Dept. of Computer Science
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21-22 CPS SEM IV

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Virtual Reality

-:SUBMITTED BY:-

Vedanti Vilas Chandan

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Vedanti Vilas Chandan** has carried out Project Work entitled **"Virtual Reality"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science
Head
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Adarsha Sci., J. B. Arts &
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

5G network

-:SUBMITTED BY:-

Kartik Pradiprao More

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
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Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Kartik Pradiprao More** has carried out Project Work entitled **"5G network"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

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PROJECT

ON

SUBJECT :-

5G network

-:SUBMITTED BY:-

Prashik Raghunathji Dhabarde

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

Head
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Teacher in-charge

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Prashik Raghunathji Dhabarde** has carried out Project Work entitled "**5G network**" successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science

Head
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DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

5G network

-:SUBMITTED BY:-

Yash Jagadish Katgale

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

Head
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Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Yash Jagadish Katgale** has carried out Project Work entitled **"5G network"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science

Head
Dept. of Computer Science
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Principal

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Serverless Computing

-:SUBMITTED BY:-

Sanket Kishorrao Dhemare

B.Sc. II [SEM IV]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Sanket Kishorrao Dhemare** has carried out Project Work entitled **"Serverless Computing"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science
Head
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21-22 CPS SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Edge Computing

-:SUBMITTED BY:-

Aniket Anil Gajbhiye

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Aniket Anil Gajbhiye** has carried out Project Work entitled **"Edge Computing"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

Department of Computer Science

Dept. of Computer Science
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Edge Computing

-:SUBMITTED BY:-

Utkarsh Mohan Deshmukh

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Scien...
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Utkarsh Mohan Deshmukh** has carried out Project Work entitled **"Edge Computing"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

Department of Computer Science
Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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PRINCIPAL
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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Edge Computing

-:SUBMITTED BY:-

Atharva Anil Deshpande

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Scienc
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Atharva Anil Deshpande** has carried out Project Work entitled **"Edge Computing"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

Department of Computer Science
Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Principal
PRINCIPAL
Adarsha Science, J. B. Arts
& Birla Comm. Mahavidyalaya,
Dhamangaon Rly.

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Edge Computing

-:SUBMITTED BY:-

Labhanshu Mohanrao Jadhav

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Labhanshu Mohanrao Jadhav** has carried out Project Work entitled **"Edge Computing"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

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Birla Comm. Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

RPA (Robotic Process Automation)

-:SUBMITTED BY:-

Komal Prakashrao Velukar

B.Sc. III [SEM V]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Com. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Pallavi Vijayrao Badhiye** has carried out Project Work entitled **"Blue Chain"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 6/12/2021

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Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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Adarsha Science, J. B. Arts
& Birla Comm. Mahavidyalaya,
Dhamangaon Rly.

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21-22 CPS SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

AMV Alumini form Creation

-:SUBMITTED BY:-

Madhuri Prathamraj Bhamkar

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Madhuri Prathamraj Bhamkar** has carried out Project Work entitled "**AMV Alumini form Creation**" successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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Dhamangaon Rly

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

AMV Alumini form Creation

-:SUBMITTED BY:-

Khushi Prasanna Bhandari

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)
Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Khushi Prasanna Bhandari** has carried out Project Work entitled "**AMV Alumini form Creation**" successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science
Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
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& Birla [illegible] Mahavidyalaya,
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

AMV Alumini form Creation

-:SUBMITTED BY:-

Nishigandha Subhashrao Kannake

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Nishigandha Subhashrao Kannake** has carried out Project Work entitled **"AMV Alumini form Creation"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

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Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

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& Birla ... Mahavidyalaya,
... Rly.

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

PROJECT

ON

SUBJECT :-

Design calculator in java applet

-:SUBMITTED BY:-

Komal Prakashrao Velukar

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Komal Prakashrao Velukar** has carried out Project Work entitled **"Design calculator in java applet"** successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science

Head
Dept. of Computer Science
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Birla Comm. Mahavidyalaya
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Dhamangaon Rly.

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ADARSHA SCIENCE, J.B.ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY



PROJECT

ON

SUBJECT :-

Design calculator in java applet

-:SUBMITTED BY:-

Tanvi Vinodrao Gorde

B.Sc. III [SEM VI]

Dr. M. V. MAWALE

(H.O.D.)

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Dr. S. A. GHOGARE

Teacher in-charge

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC SESSION (2021-2022)

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DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that **Mr. / Miss. Tanvi Vinodrao Gorde** has carried out Project Work entitled "**Design calculator in java applet**" successfully during the Session 2021-22 for B.Sc. **Semester III / IV / V / VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 4/5/2022

Department of Computer Science

Head
Dept. of Computer Science
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
Dhamangaon Rly - 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts
& Birla Comm. Mahavidyalaya,
Dhamangaon Rly.

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21-22 ELE B. Sc.

A

Project Report

On

"Fire Detector Alarm"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

In

Electronics (Instrumentation)

Submitted by

Miss. Sonal S. Taksande
Miss. Vallari A. Hiwarkar
Miss. Vedika G. Mankar
Miss. Alfiya Y. Shaha

Under the Guidance of

Mr. S.K. Shelke
Dr. S.A.Rodge

Department of Electronics
Adarsha Science,J.B.Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist.Amravati

(2021–2022)

CERTIFICATE

This is to certified that project entitled "**Fire Alarm Detector** " has been successfully completed under the guidance of Dr. S. A. Rodge and Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Miss.Sonal S.Taksande

Miss.Vallari A.Hiwarkar

Miss.Vedika G.Mankar

Miss.Alfiya Y. Shaha

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department Of Electronics)

Dr. Y.B.Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics

Adarsha Science,J.B.Arts & Birla Commerce Mahavidyalaya

Dhamangaon(rly) Dist.Amravati

(2021–2022)

Project Report

On

"LDR Laser Security System"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

in

Electronics (Instrumentation)

Submitted by

Swapnil Pataliya

Akshay Lawankar

Pritam Ingole

Rushikesh Nandeshwar

Under the Guidance of

Mr. S. K. Shelke

Dr. S. A. Rodge

Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled **"LDR Laser Security System"** has been successfully completed under the guidance of Dr. S. A. Rodge ,Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Swapnil Pataliya

Akshay Lawankar

Pritam Ingole

Rushikesh Nandeshwar

Mr. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2020 – 2021)

Project Report

On

"Rain Alarm Sensor"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

in

Electronics (Instrumentation)

Submitted by

OMPRAKASH GAJANAN TAYADE

PRAJOT MILIND PAHADE

PRATIK GAJANAN KALSAIT

Under the Guidance of

Dr.S.A RODGE

Prof. S. K. Shelke



Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled **"Rain Alarm Sensor"** has been successfully completed under the guidance of Dr. S.A Rodge Prof. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

OMPRAKASH GAJANAN TAYADE

PRAJOT MILIND PAHADE

PRATIK GAJANAN KALSAIT

Prof. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm. Mahavidyalaya,
Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

Project Report

On

"Panic Alarm circuit using 555 Timer IC"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

in

Electronics (Instrumentation)

Submitted by

Miss.ShreyaR.Tale

Miss . Monali R. Thakare

Miss.Sakshi H.Dhole

Miss.Sakshi N.Mankar

Under the Guidance of

Mr. S. K. Shelke

Dr. S. A. Rodge



Department of Electronics

Adarsh Science, J. B. Arts & Birla Commerce Mahavidyalaya

Dhamngaon (rly) Dist. Amaravati

(2021-2022)

CERTIFICATE

This is to certified that project entitled "Panic Alarm circuit Using 555 timer IC" has been successfully completed under the guidance of **Mr. S. K. Shelke, Dr. S. A. Rodge** in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Miss Shreya R. Tale

Miss. Monali R. Thakare

Miss. Sakshi H. Dhole

Miss. Sakshi N. Mankar

Mr. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

Project Report

On

"Rain Detector"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Bachelor of Science

in

Electronics (Instrumentation)

Submitted by

Miss .Akanksha R. Bhujbal
Miss. Amruta M. Tinkhede
Miss. Lekha C. Kothari
Miss. Nutan P. Lamkase

Under the Guidance of

Dr. S.A. Rodge

Mr. S. K. Shelke

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (Rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled **Rain Detector** has been successfully completed under the guidance of Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Bachelor of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Miss .Akanksha R. Bhujbal
Miss. Amruta M. Tinkhede
Miss. Lekha C. Kothari
Miss. Nutan P. Lamkase

Mr. S. K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

21-22 ELE M. Sc.

Project Report

On

"IOT Base Wi-Fi Controlled Home Automation using Blink Application with Node MCU"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement

of final year degree of

Masters of Science

In

Electronics

Submitted by

Yogesh R. Dangare **Shubham K. Purohit** **Mohan S. Khobragade**

Under the Guidance of

Dr. S. A. Rodge

Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled **"IOT Base Wi-Fi Controlled Home Automation using Blink Application with Node MCU"** has been successfully completed under the guidance of **Dr. S. A. Rodge** in recognition to the partial fulfillment for the award of the degree of Master of Science in Electronics, Sant Gadge Baba Amravati University, Amravati

Submitted by

Yogesh R. Dangare | **Shubham K. Purohit** | **Mohan S. Khobragade**

Dr. S. A. Rodge
(Project Guide & HOD)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

Project Report

On

"Wireless Notice Board using GSM & ATmega 328"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement of final year degree of

Masters of Science

In

Electronics (Instrumentation)

Submitted by

Miss.Prachi N. Gadkari Miss.Vaishnavi P. Waghe

Under the Guidance of

Mr. S. K. Shelke



Department of Electronics

Adarsha Science,J.B.Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist.Amravati

(2021–2022)

CERTIFICATE

This is to certified that project entitled **"Wireless Notice Board using GSM & AT mega 328"** has been successfully completed under the guidance of Mr. S. K. Shelke in the recognition to the partial fulfillment for the award of the degree of Masters of Science in Electronics (Instrumentation), Sant Gadge Baba Amravati University, Amravati

Submitted by

Miss. Prachi N. Gadkari **Miss. Vaishnavi P. Waghe**

Mr. S. K. Shelke
(Project Guide)

Dr. S.A.Rodge
(HOD, Department of Electronics)

Dr. Y.B.Gandole
(Principal)

(External Examiner)

Department of Electronics

Adarsha Science,J.B.Arts & Birla Commerce Mahavidyalaya

Dhamangaon(rly) Dist.Amravati

(2021–2022)

Project Report

On

"Human Following Intelligent Trolley for Shopping Malls & Grocery Stores Using Arduino SMD"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement

of final year degree of

Masters of Science

In

Electronics

Submitted by

Shamli R. Jalit

Dhanshri S. Jawdekar

Under the Guidance of

Dr. S. A. Rodge

Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled **"Human Following Intelligent Trolley for Shopping Malls & Grocery Stores Using Arduino SMD"** has been successfully completed under the guidance of **Dr. S. A. Rodge** in recognition to the partial fulfillment for the award of the degree of Master of Science in Electronics, Sant Gadge Baba Amravati University, Amravati

Submitted by

Shamli R. Jalit

Dhanshri S. Jawdekar

Dr. S. A. Rodge

(Project Guide & HOD)

Dr. Y. B. Gandole

(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

Project Report

On

"Smart Fire Detection Base Water Sprinkler System Using Flame Sensor and Arduino SMD"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement

of final year degree of

Masters of Science

In

Electronics

Submitted by

Priyanka M. Gulhane

Nikita S. Ghawat

Under the Guidance of

Mr. Swapnil K. Shelke

Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled "**Smart Fire Detection Base Water Sprinkler System Using Flame Sensor and Arduino SMD**" has been successfully completed under the guidance of **Mr. Swapnil K. Shelke** In recognition to the partial fulfillment for the award of the degree of Master of Science in Electronics, Sant Gadge Baba Amravati University, Amravati

Submitted by

Priyanka M. Gulhane

Nikita S. Ghawat

Mr. Swapnil K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.

(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

Project Report

On

"Water Level Indicator using Water Level Depth sensor using Arduino SMD"

Submitted To

Sant Gadge Baba Amravati University

For the partial fulfillment of the requirement

of final year degree of

Masters of Science

In

Electronics

Submitted by

Suraj R. Uke

Sagar K. Supalkar

Under the Guidance of

Mr. Swapnil K. Shelke

Department of Electronics

Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya

Dhamangaon (rly) Dist. Amravati

(2021 - 2022)

CERTIFICATE

This is to certified that project entitled "**Water Level Indicator using Water Level Depth sensor using Arduino SMD** has been successfully completed under the guidance of **Mr. Swapnil K. Shelke** In recognition to the partial fulfillment for the award of the degree of Master of Science in Electronics, Sant Gadge Baba Amravati University, Amravati

Submitted by

Suraj R. Uke

Sagar K. Supalkar

Mr. Swapnil K. Shelke
(Project Guide)

Dr. S. A. Rodge
(HOD, Department Of Electronics)

Dr. Y. B. Gandole
(Principal)

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya, Dhamangaon Rly.



(External Examiner)

Department of Electronics
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Dhamangaon (rly) Dist. Amravati
(2021 – 2022)

21-22 PHY SEM III

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Electrostatic Separation Technology"

Submitted by

Aachal Raju Dafe
Achal Dnyaneshwar Pinjari
Aditya Duryodhan Nare
Bhavesh Chandrashekhar Tapare

B.Sc. II (Sem-III)

Date of Submission: 30/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Aachal Raju Dafe, Achal Dnyaneshwar Pinjari, Aditya Duryodhan Nare, Bhavesh Chandrashekhar Tapare** have carried out Project Work entitled **"Electrostatic Separation Technology"** successfully during the Session 2021-22 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/12/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Hall Effect Sensor"

Submitted by

Chanchal Rajendra Jadhao
Rashmi Nandkishorrao Raut
Rushali Sureshrao Nandane
Rutik Sudhakar Manohare

B.Sc. II (Sem-III)

Date of Submission: 30/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Chanchal Rajendra Jadhao Rashmi Nandkishorrao Raut, Rushali Sureshrao Nandane, Rutik Sudhakar Manohare** have carried out Project Work entitled **"Hall Effect Sensor"** successfully during the Session 2021-22 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/12/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Study of Wave Particle Duality"

Submitted by

Ruttik Nandkishor Shende
Shruti Ranjeetsingh Thakur
Tejas Arvind Tale
Yogita Bramhanand Kale

B.Sc. II (Sem-III)

Date of Submission: 30/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Ruttik Nandkishor Shende Shruti Ranjeetsingh Thakur, Tejas Arvind Tale, Yogita Bramhanand Kale** have carried out Project Work entitled **"Study of Wave Particle Duality"** successfully during the Session 2021-22 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/12/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

Head
Department of Physics
Head Of Physics Dept.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Relativity and Black Holes"

Submitted by

Amit Narendrarao Hande
Ankita Narpatsing Rajpurohit
Atish Vijayrao Sute
Bhushan Arunrao Amale

B.Sc. II (Sem-III)

Date of Submission: 30/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Amit Narendrarao Hande, Ankita Narpatsing Rajpurohit, Atish Vijayrao Sute, Bhushan Arunrao Amale** have carried out Project Work entitled **"Relativity and Black Holes"** successfully during the Session 2021-22 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/12/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

Head
Department of Physics

Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal

PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Sensitive Intruder Alarm Circuit"

Submitted by

Harshada Ravindra Pakhale
Jash Vijay Kambale
Jay Prakash Shende
Mayuri Prakashrao Raut

B.Sc. II (Sem-III)

Date of Submission: 30/12/2021

Department of Physics

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Academic Session: 2021-2022

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Harshada Ravindra Pakhale, Jash Vijay Kambale, Jay Prakash Shende, Mayuri Prakashrao Raut** have carried out Project Work entitled **"Sensitive Intruder Alarm Circuit"** successfully during the Session 2021-22 for **B. Sc. II Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30/12/2021

Signature of Teacher in-charge
(Dr. S. S. Sharma)

Head
Department of Physics

Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

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21-22 PHY SEM IV

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DIST. AMRAVATI

Theory Project Report

On

"Solar Outdoor Air Purifier"

Submitted by

Aachal .R. Dafe

Mayuri .P. Raut

Shruti .R. Thakur

Yogita .B. Kale

B.Sc.-II (Sem-IV)

Date of Submission: 06/05/2022

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session: 2021-2022

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss.** Bachal R. Dafe , Mayuri P. Raut , Shruti R. Thakur, Yogita B. kale of **B. Sc.** 2nd **(Semester** IV**)** has carried out Project Work entitled " "solar outdoor air purifier" " successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission:
06/05/2022

Signature of Teacher in-charge

Head Of Physics Dept.
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
Dhamangaon Rly.

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Commerce Mahavidyalaya
Principal
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY,AMRAVATI

ADARSHA SCIENCE, J.B. ARTS&BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY, DIST. AMRAVATI



Theory Project Report
On
"OPTICAL ATOMIC CLOCK"

Submitted by
ANKITA N. RAJPUROHIT
CHANCHAL R. JADHAV
PRAVINA G. PAWAR
SHRUTI N. SANGODE
ACHAL D. PINJARE

B.Sc.-II (Sem-IV)

Date of Submission: 11 MAY 2022

Department of Physics

Adarsha Science ,J.B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly)

Academic Session:2021-2022

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. (1) Ankita N. Rajpurohit
(2) Chandrakal R. Jadhav (3) Pravina G. Pawar of B. Sc. III (Semester V)
(4) Bharti N Sangode, (5) Rahul D. Pinjari
has carried out Project Work entitled "
"Optical Atomic clock"
"

successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission:
11-05-22

Signature of Teacher in-charge

Head
Department of Physics

Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

Principal

PRINCIPAL
Adarsha Science, J.B. Arts &
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,DHAMANGAON RLY., DIST. AMRAVATI



Theory Project Report

On

"Technology of Femtosecond Laser"

Submitted by

Ruttik Shende

Rutik Manohare

Vipin Dhepe

Pratik Sarode

B.Sc.-II (Sem-IV)

Date of Submission: 7|5|2022

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya Dhamangaon (Rly)

Academic Session: 2021-2022

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. ~~Ruttik Shende~~, ~~Ruttik Manohare~~, Vipin Dhepe, Pratik Sarode of B. Sc. II (Semester ~~III~~ IV) has carried out Project Work entitled "Technology of Femtosecond Laser" successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 7/5/2022

Signature of Teacher in-charge

Head
Department of Physics

Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

Principal

PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,DHAMANGAON RLY., DIST. AMRAVATI



Theory Project Report

On

"Fiber To The Home"

Submitted by

Sumit Gotefode

Atish sute

Namdeo Madavi

Jash Kamble

Bhushan Amale

B.Sc.-II (Sem-IV)

Date of Submission: 07-05-22

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya Dhamangaon (Rly)

Academic Session: 2021-2022

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / ~~Miss~~.** Sumit Atish Namdeo Gatchat Gute Madavi
Tash Ashishan Hamble Amale of **B. Sc.** II **(Semester** IV**)**
has carried out Project Work entitled "Fiber To The Home"
successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission:
07-05-22

Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE

MAHAVIDYALAYA,DHAMANGAON RLY., DIST. AMRAVATI



Theory Project Report

On

"Laser-Driven Particle Accelerators"

Submitted by

Aditya D. Nare

Amit N. Hande

Bhavesh C. Tapare

Tejas A. Tale

Jay P. Shende

B.Sc.-II (Sem-IV)

Date of Submission: 07.05.2022

Department of Physiys

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly)

Academic Session: 2021-2022

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss.** Aditya Nare, Amit Hande, Bhavesh Tapre, Tejas Tale, Jay Shinde of **B. Sc.** II (**Semester** IV) has carried out Project Work entitled "Laser - Driven Particle Accelerators" successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 07.05.2022.

Signature of Teacher in-charge

Head
Department of Physics

Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

Principal

PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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21-22 PHY SEM V

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Quantum Computing"

Submitted by

Achal S. Jagtap

Akansha D. Gawande

Arpita S. Kadu

B.Sc. III (Sem-V)

Date of Submission: 24/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Achal S. Jagtap, Akansha D. Gawande, Arpita S. Kadu** have carried out Project Work entitled **"Quantum Computing"** successfully during the Session 2021-22 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 24/12/2021

Signature of Teacher in-charge
(G. S. Mendhe)

Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Quantum dots"

Submitted by

Bhagyashree A. Waghade

Bhairavi P. Gandole

Chhaya R. Dandare

B.Sc. III (Sem-V)

Date of Submission: 24/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Bhagyashree A. Waghade, Bhairavi P. Gandole, Chhaya R. Dandare** have carried out Project Work entitled **"Quantum dots"** successfully during the Session 2021-22 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 24/12/2021

Signature of Teacher in-charge
(G. S. Mendhe)

Dr. S. G. Chauhan
Head
Department of Physics
Head Of Physics Dept.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
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Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
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Topic

"Big bang model of elementary particles"

Submitted by

Pooja D. Chakole

Sakshi B. Malode

Trupti S. Meshram

B.Sc. III (Sem-V)

Date of Submission: 24/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Pooja D. Chakole, Sakshi B. Malode, Trupti S. Meshram** have carried out Project Work entitled **"Big bang model of elementary particles"** successfully during the Session 2021-22 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 24/12/2021

Signature of Teacher in-charge
(G. S. Mendhe)

Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Topic

"Raman Spectroscopy"

Submitted by

Vaishnavi D. Waghade

Vaishnavi R. Kalsarpe

B.Sc. III (Sem-V)

Date of Submission: 24/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Vaishnavi D. Waghade, Vaishnavi R. Kalsarpe** have carried out Project Work entitled **"Raman Spectroscopy"** successfully during the Session 2021-22 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 24/12/2021

Signature of Teacher in-charge
(G. S. Mendhe)

Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

(Dr. Y. B. Gandole)
Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Topic

"Quantum Gravity"

Submitted by

Akansha G. Gulhane

Alisha J. Bhagat

Aniket A. Gajbhiye

B.Sc. III (Sem-V)

Date of Submission: 24/12/2021

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

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DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss. Akansha G. Gulhane, Alisha J. Bhagat, Aniket A. Gajbhiye** have carried out Project Work entitled **"Quantum Gravity"** successfully during the Session 2021-22 for **B. Sc. III Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 24/12/2021

Signature of Teacher in-charge
(G. S. Mendhe)

Head
Department of Physics

(Dr. Y. B. Gandole)
Principal

21-22 PHY SEM VI

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Theory project Report
ON

"Liquid Crystal "

Submitted by

Miss. Achal Jagtap
Miss. Akansha Gawande
Miss. Arpita Kadu.

B.Sc. III (Sem-VI)

Date of Submission: 27/04/2022

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. Achal Jagtap, Arpita kadu, Akansha Gawande of B. Sc. III (Semester VI) has carried out Project Work entitled "Liquid crystal's" successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 27/04/22

Signature of Teacher in-charge

Head of Physics Dept.
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
Dhamangaon Rly.

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm., Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY., DIST. AMRAVATI

Theory Project Report

ON

"Josephson effect"

Submitted by

1. Bhairavi P. Gandole
2. Bhagyashri A. Waghade
3. Chhaya R. Dandare

B.Sc. III (Sem-VI)

Date of Submission: 30-04-2022

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-2022

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. Bhagyashri A. Waghade
Bhairavi P. Gandole, Shreya P. Dandare of B. Sc. III (Semester VI)
has carried out Project Work entitled " "Josephson effect" "
successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission: 30-04-2022

Signature of Teacher in-charge

Head
Department of Physics

Principal

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI



Theory Project Report

ON

"Physical method of synthesis of nanoparticles"

Submitted by

Pooja D. Chakole

Sakshi B. Malode

Trupti S. Meshram

B.Sc. III (Sem-VI)

Date of Submission:**25/04/2022**

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session - 2021 - 22

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DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that **Mr. / Miss.** Pooja D. Chakole, Sakshi B. Malode, Jyupti S. Meshram **of B. Sc.** III **(Semester** VI**)** has carried out Project Work entitled " Physical method of Synthesis of nanoparticles ". " successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 30/04/2022

Principal

Head
Department of Physics

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DIST. AMRAVATI

Theory Project Report
ON

" Name of project
Boss -Einstein Condensation

Submitted by
1) Vaishnavi D. Waghade
2) Vaishnavi R. Kalsarpe

B.Sc. III (Sem-VI)

Date of Submission:-06-05-2022

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. Vaishnavi D. Bagbade and Vaishnavi R. Kalsarpe of B. Sc. III (Semester VI) has carried out Project Work entitled "Bose - Einstein Condensation" successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Date of Submission:
6-5-2022

Signature of Teacher in-charge

Head
Department of Physics
Head Of Physics Deptt.
Adarsha Science, J.B. Arts &
Birla Comm., Mahavidyalaya
Dhamangaon Rly.

Principal
PRINCIPAL
Adarsha Science, J.B. Arts &
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DHAMANGAON RLY., DIST. AMRAVATI

Theory Project Report

ON

"Superconductors in transportation "

Submitted by

Aniket A.Gajbhiye

Akansha G.Gulhane

Alisha J.Bhagat

B.Sc. III (Sem-VI)

Date of Submission: 30/04/22

Department of Physics

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

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DHAMANGAON RLY., DIST. AMRAVATI

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that Mr. / Miss. Aniket A. Gajbhiye.
Aniket Gajbhiye, Akanksha Gulhane, Atiata Ghage

of B. Sc. 3rd (Semester VI) has carried out Project Work entitled " ------
Superconductor in transportation "

successfully during the Session 2021-22, in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of practical project marks.

Date of Submission:

Signature of Teacher in-charge

Head Of Dept.
Department of Physics
Adarsha Science, J.B. Arts & Birla Comm., Mahavidyalaya
Dhamangaon Rly.

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Topic

"AQUATIC MAMMALS"

Submitted by:

Ku. Anuradha Bagade

Ku. Shreya Thakur

B.Sc. II (Sem-III)

Date of Submission: 18.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Anuradha Bagade and Ku. Shreya Thakur** has carried out Project Work entitled **"Aquatic Mammals"** successfully during the Session 2021-22 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology
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Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
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Topic

"HARDY-WEINBERG EQUILLIBRIUM"

Submitted by:

Ku. Payal Kamble

Ku. Sejal Motghare

B.Sc. II (Sem- III)

Date of Submission: 06.01.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Payal Kamble and Ku. Sejal Motghare** has carried out Project Work entitled **"Hardy-Weinberg Equillibrium"** successfully during the Session 2021-22 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Topic

"DOMESTIC ANIMALS"

Submitted by

Ku. Yadavi Gawande

Ku. Sayali Gulhane

B.Sc. II (Sem- III)

Date of Submission: 18.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Yadavi Gawande and Ku. Sayali Gulhane** has carried out Project Work entitled **"Domestic Animals"** successfully during the Session 2021-22 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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Topic

"DIVERSITY IN BUTTERFLIES"

Submitted by

Ku. Sakshi Ingale
Ku. Gayatri Gulhane

B.Sc. II (Sem- III)

Date of Submission: 20.12.2021

Department of Zoology

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Sakshi Ingale and Ku. Gayatri Gulhane** has carried out Project Work entitled **"Diversity in Butterflies"** successfully during the Session 2021-22 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"DIVERSITY IN INSECTS"

Submitted by

Ku. Gayatri Nikam

Ku. Anuja Nishan

B.Sc. II (Sem-III)

Date of Submission: 15.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Gayatri Nikam and Ku. Anuja Nishan** has carried out Project Work entitled **"Diversity in Insects"** successfully during the Session 2021-22 for **Semester III** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

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Department of Zoology

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"DIVERSITY OF FISHES IN GAVAFARKADE"

Submitted by

Ku. Nikita Ghavade

Ku. Priti Sultane

Ku. Sakshi Shinde

B.Sc. III (Sem- V)

Date of Submission: 15.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Nikita Ghavade, Ku. Priti Sultane and Ku. Sakshi Shinde** has carried out Project Work entitled **"Diversity of Fishes in Gavafarkade"** successfully during the Session 2021-22 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

Department of Zoology
Adarsha Science, J. B. Arts &
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Adarsha Science J. B. Arts
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"POULTRY FARMING"

Submitted by
Ku. Chanchal Gawarle
Ku. Sakshi Shrirame
Ku. Shweta Kale

B.Sc. III (Sem- V)

Date of Submission: 27.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Chanchal Gawarle, Ku. Sakshi Shrirame and Ku. Shweta Kale** has carried out Project Work entitled **"Poultry Farming"** successfully during the Session 2021-22 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

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Adarsha Science J. B. Arts
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"DETECTION OF BLOOD GROUPS IN DHAMANGAON RAILWAY"

Submitted by
Ku. Sakshi Pole
Ku. Pradnya Wasnik
Ku. Pallavi Chimurkar

B.Sc. III (Sem- V)

Date of Submission: 31.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Sakshi Pole, Ku. Pradnya Wasnik and Ku. Pallavi Chimurkar** has carried out Project Work entitled **"Detection of Blood Groups in Dhamangaon Railway"** successfully during the Session 2021-22 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

Department of Zoology
Adarsha Science, J. B. Arts &
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Dhamangaon Rly

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"PHYSIOLOGY AND BIOCHEMISTRY OF AGING"

Submitted by
Ku. Gauri Khandarkar
Ku. Shreya Kandalkar
Ku. Sonal Parkhande

B.Sc. III (Sem- V)

Date of Submission: 15.12.2021

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

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DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Gauri Khandarkar, Ku. Shreya Kandalkar and Ku. Sonal Parkhande** has carried out Project Work entitled **"PHYSIOLOGY AND BIOCHEMISTRY OF AGING"** successfully during the Session 2021-22 for **Semester V** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Department of Zoology
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Birla Commerce Mahavidyalaya
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"PHYSICO-CHEMICAL ANALYSIS OF DIFFERENT WATER SAMPLES FROM DHAMANGAON RAILWAY"

Submitted by:

Ku. Snehal Durge

Ku. Shivani Akade

Ku. Gayatri Chandure

B.Sc. II (Sem- IV)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss**. Snehal Durge, Miss. Shivani Akade, Miss. Gayatri Chandure has carried out Project Work entitled **"Physico-chemical analysis of different water samples from Dhamangaon Railway"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
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Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"RECENT ADVANCES IN FORENSIC DNA ANALYSIS"

Submitted by:

Ku. Shreya Thakur

Mr. Aditya Ahir

B.Sc. II (Sem-IV)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. Aditya Ahir and Miss. Shreya Thakur** has carried out Project Work entitled **"Recent Advances in Forensic DNA Analysis"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Physico-chemical analysis of different water samples from Nimboli"

Submitted by

Ku. Anuja Nishan

Ku. Anju Dhanke

Ku. Diksha Dhanke

Ku. Gayatri Nikam

B.Sc. II (Sem- IV)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss. Anuja Nishan, Anju Shanke, Diksha Dhanke, Gayatri Nikam** has carried out Project Work entitled **"Physico-chemical analysis of different water samples from Nimboli"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Department of Zoology
Adarsha Science, J. B. Arts &
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Physico-chemical analysis of different water samples from Dhamangaon Railway"

Submitted by

Ku. Sayali Gulhane

Ku. Yadavi Gawande,

Ku. Sejal Motghare

Ku. Anuradha Bagade

Ku. Payal Kamble

B.Sc. II (Sem- IV)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Sayali Gulhane Ku. Yadavi Gawande, Ku. Sejal Motghare, Ku. Anuradha Bagade, Ku. Payal Kamble** has carried out Project Work entitled **"Physico-chemical analysis of different water samples from Dhamangaon Railway"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

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Birla Commerce Mahavidyalaya
Dhamangaon Rly

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Recent Trends in Prenatal Diagnosis"

Submitted by

Ku. Punam Meshram

Ku. Punam Chakole

Ku. Vaidehi Khedekar

B.Sc. II (Sem-IV)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Punam Meshram, Ku. Punam Chakole, Ku. Vaidehi Khedekar** has carried out Project Work entitled **"Recent Trends in Prenatal Diagnosis"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

Topic

"Physico-chemical analysis of water samples from Anjansingi"

Submitted by

Ku. Asmita Shrirame
Ku. Samiksha Thakare
Ku. Gayatri Gulhane
Ku. Sakshi Kale
Ku. Sakshi Ingale
Ku. Sanjana Wankhade

B.Sc. II (Sem- IV)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Asmita Shrirame, Ku. Samiksha Thakare, Ku. Gayatri Gulhane, Ku. Sakshi Kale, Ku. Sakshi Ingale, Ku. Sanjana Wankhade** has carried out Project Work entitled **"Physico-chemical analysis of water samples from Anjansingi"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"PCR Technique"

Submitted by
Ku. Nikita Ghavade

B.Sc. III (Sem- VI)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Nikita Ghavade has carried out Project Work entitled **"PCR Technique"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Spinocerebellar Ataxia"

Submitted by
Ku. Isha Unone
Ku. Gayatri Bante

B.Sc. III (Sem- VI)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Isha Unone and Ku. Gayatri Bante** has carried out Project Work entitled **"Spinocerebellar Ataxia"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head
Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Biotechnology and Its Applications"

Submitted by

Ku. Sakshi Shrirame

Ku. Chanchal gawarle

B.Sc. III (Sem- VI)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Sakshi Shrirame and Ku. Chanchal Gawarle** has carried out Project Work entitled **"Biotechnology and Its Applications"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher-In-charge

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Protein Synthesis"

Submitted by

Ku. Sakshi Nikam

Ku. Gauri Budhe

B.Sc. III (Sem- VI)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Sakshi Nikam and Ku. Gauri Budhe** has carried out Project Work entitled **"Protein Synthesis"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Department of Zoology

HEAD
Department of Zoology
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly.

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY., DISTT. AMRAVATI



Topic
"Recombinant DNA Technology"

Submitted by
Ku. Priti Sultane
Ku. Sakshi Shinde

B.Sc. III (Sem- VI)

Date of Submission: 30.04.2022

Department of Zoology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-22

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **Ku. Priti Sultane and Ku. Sakshi Shinde** has carried out Project Work entitled **"Recombinant DNA Technology"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher In-charge

Head

Department of Zoology

Department of Zoology
Adarsha Science, J. B. Arts &

Principal

PRINCIPAL
Adarsha Science J. B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

21-22 COMMERCE SEM V

A PROJECT REPORT ON

(Electronic payment)

Submitted in partial fulfilment of requirements for award of the degree

Of

BACHELOR OF COMMERCE (SEM -V)

SUBMITTED BY

Miss. Manisha Shelke

Miss. Dhanashri Vilayatkar

Miss. Vaishanavi Ghongde

Miss. Vaishnavi Kupale

Miss.Tejaswini Tulshikar

Under the Guidance of

DR.RUPESH R. DAHAKE

Assistant Professor



DEPARTMENT OF COMMERCE

Adarsha Science,Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly , Amravati 2021-2022

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CERTIFICATE

This is to certify that Manisha Shelke , Dhanashri Vilayatkar , Vaishnavi Ghongade , Vaishnavi Kupale , Tejaswini Tulsikar have successfully completed the project titled **E-PEYMENT** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

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A PROJECT REPORT ON

(BUSINESS TO BUSINESS)

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

Mr. Gaurav Nikhade

Mr. Gaurav Raut

Mr. Abhijeet Dandge

Mr. Ujwal Ajmire

Mr. Yogesh Wanve

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2021-22

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CERTIFICATE

This is to certify that Gaurav Nikhade, Gaurav Raut, Abhijeet Dandge, Ujwal Ajmire and Yogesh Wanve, have successfully completed the project titled "Business To Business" at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(Internet)

Submitted in partial fulfilment of requirements for award of the degree

Of

BACHELOR OF COMMERCE (SEM -V)

SUBMITTED BY

Miss Trupti Hajare

Miss Jayashri Bhagat

Miss Rakhi Neware

Miss Monika Sharma

Mr Aniket Chakdhare

Under the Guidance of

DR.RUPESH R. DAHAKE

Assistant Professor

DEPARTMENT OF COMMERCE

Adarsha Science,Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly , Amravati 2021-2022

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CERTIFICATE

This is to certify that Trupti hajare ,Jayashri Bhagat, Rakhi Neware Monika sharma , Aniket Chakdhare, have successfully completed the project titled **INTERNET** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(INTERNET)

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce (sem.5th)

Submitted By

KU. JAYSHRI DILIP KATAGLE

KU. NANDINI PRABHAKAR SONULE

KU. GAURI HARIDASJI NAKHATE

KU. MADHURI SURESHRAO ALONE

KU. VAISHNAVI MUKUNDRAO GAWANDE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science,JairamdasBhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2021-22

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CERTIFICATE

This is to certify that KU. JAYSHRI DILIP KATGALE, KU. NANDINI PRABHAKAR SONULE KU.GAURI HARIDASJI NAKHATE, KU. MADHURI SURESHRAO ALONE, KU. VAISHNAVI MUKUNDRAO GAWANDE have successfully completed the project titled "INTERNET" at Adarsha Science, JairamdasBhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(CONSUMER TO BUSINESS MODEL IN INDIA)

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce (Semester--V)

Submitted By

MISS.ANKITA MOHAN KANOJ

MISS. HARSHALI DADARAO KAMDI

MISS. KARINA AMARLAL KUKREJA

MISS. NUPUR GUNVANT NANNAWARE

MISS. PUNAM GOPAL BAWANKAR

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

Scanned with CamScanner

2021-22

CERTIFICATE

This is to certify that MISS. ANKITA MOHAN KANOJ, MISS.HARSHALI DADARAO KAMDI and MISS.KARINA AMARLAL KUKREJA and MISS.NUPUR GUNVANT NANNAWARE and MISS. PUNAM GOPAL BAWANKAR have successfully completed the project titled " (CONSUMER TO BUSINESS MODEL IN INDIA) "at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

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21-22 COMMERCE SEM VI

A PROJECT REPORT ON

(Electronic payment)

Submitted in partial fulfilment of requirements for award of the degree

Of

BACHELOR OF COMMERCE (SEM -V)

SUBMITTED BY

Miss. Manisha Shelke

Miss. Dhanashri Vilayatkar

Miss. Vaishanavi Ghongde

Miss. Vaishnavi Kupale

Miss.Tejaswini Tulshikar

Under the Guidance of

DR.RUPESH R. DAHAKE

Assistant Professor



DEPARTMENT OF COMMERCE

Adarsha Science,Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly , Amravati 2021-2022

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CERTIFICATE

This is to certify that Manisha Shelke , Dhanashri Vilayatkar , Vaishnavi Ghongade , Vaishnavi Kupale , Tejaswini Tulsikar have successfully completed the project titled **E-PEYMENT** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(BUSINESS TO BUSINESS)

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce

Submitted By

Mr. Gaurav Nikhade

Mr. Gaurav Raut

Mr. Abhijeet Dandge

Mr. Ujwal Ajmire

Mr. Yogesh Wanve

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2021-22

Scanned with CamScanner

CERTIFICATE

This is to certify that Gaurav Nikhade, Gaurav Raut, Abhijeet Dandge, Ujwal Ajmire and Yogesh Wanve, have successfully completed the project titled "Business To Business" at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(Internet)

Submitted in partial fulfilment of requirements for award of the degree

Of

BACHELOR OF COMMERCE (SEM -V)

SUBMITTED BY

Miss Trupti Hajare

Miss Jayashri Bhagat

Miss Rakhi Neware

Miss Monika Sharma

Mr Aniket Chakdhare

Under the Guidance of

DR.RUPESH R. DAHAKE

Assistant Professor

DEPARTMENT OF COMMERCE

Adarsha Science,Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya,
Dhamangaon Rly , Amravati 2021-2022

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CERTIFICATE

This is to certify that Trupti hajare ,Jayashri Bhagat, Rakhi Neware Monika sharma , Aniket Chakdhare, have successfully completed the project titled **INTERNET** at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(INTERNET)

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce (sem.5th)

Submitted By

KU. JAYSHRI DILIP KATAGLE

KU. NANDINI PRABHAKAR SONULE

KU. GAURI HARIDASJI NAKHATE

KU. MADHURI SURESHRAO ALONE

KU. VAISHNAVI MUKUNDRAO GAWANDE

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor

Department of Commerce

Adarsha Science,JairamdasBhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

2021-22

Scanned with CamScanner

CERTIFICATE

This is to certify that KU. JAYSHRI DILIP KATGALE, KU. NANDINI PRABHAKAR SONULE KU.GAURI HARIDASJI NAKHATE, KU. MADHURI SURESHRAO ALONE, KU. VAISHNAVI MUKUNDRAO GAWANDE have successfully completed the project titled "INTERNET" at Adarsha Science, JairamdasBhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

Scanned with CamScanner

A PROJECT REPORT ON

(CONSUMER TO BUSINESS MODEL IN INDIA)

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Commerce (Semester--V)

Submitted By

MISS.ANKITA MOHAN KANOJ

MISS. HARSHALI DADARAO KAMDI

MISS. KARINA AMARLAL KUKREJA

MISS. NUPUR GUNVANT NANNAWARE

MISS. PUNAM GOPAL BAWANKAR

Under the Guidance of

Dr. RUPESH R. DAHAKE

Assistant Professor



Department of Commerce

Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya,

Dhamangaon, Amravati.

Scanned with CamScanner

2021-22

CERTIFICATE

This is to certify that MISS. ANKITA MOHAN KANOJ, MISS.HARSHALI DADARAO KAMDI and MISS.KARINA AMARLAL KUKREJA and MISS.NUPUR GUNVANT NANNAWARE and MISS. PUNAM GOPAL BAWANKAR have successfully completed the project titled " (CONSUMER TO BUSINESS MODEL IN INDIA) "at Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly. under my supervision and guidance in the fulfillment of requirements of Fifth Semester, Bachelor of Commerce (E-Commerce) of Sant Gadge Baba Amravati University, Amravati.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Project Guide
(Dr.Rupesh R. Dahake)

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

- Project Topic –

Bignonia stem

Submitted by : vaishanavi prakash pethe

B.Sc. Part II Sem III (MCB)

Date of submission: - / / 2021-22

Department of Botany

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly, Dist. Amravati 444709

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (Sem-3) during the session 2021-2022

Project Topic: - Bignonia stem

Signature
Teacher in charge

Head,
Department of botany

Head of
Department of
Adarsha Science, J.B. Arts and
Birla Commerce Mahavidyalaya,
DHAMANGAON (RLY), 444 709

Date: -

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Adarsh Science and JB Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly

Topic

Engler And Prantl System Of Classification

• Department Name •

BOTONY

• Name of the Student •

Ku. Khushali Pundlikrao Tarhekar

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

→ **Guided By** ←

Mr. S.T. Pendam Sir

and

Mr. S.P. Patil Sir

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by Ku. Khushali Pundlikrao Tarhekar of B.Sc. II (Sem 3) during the session 2021-2022.

Project Topic

Engler and Prantle's System of classification

Signature
Teacher in charge

Head
Department of Botany

Head of Department of Botany
Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, DHAMANGAON (RLY.) 444 709

PRINCIPAL
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

Topic

-Anomalous Secondary Growth in Boerhavia Stem-

Department Of Botany

• Name of the Student •

Ku. Sakshi Badhiye.

• Class : B.Sc. II Year (Sem III) •

• Group: MCB•

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (Sem III) during the session (2021-2022)

Assignment Topic: - Anamolous Scondary Structure in Boerhavia Stem.

Signature
Teacher in charge

Head,
Department of Botany.

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
Birla Nagar, Dhamangaon Rly.
DHAMANGAON-RLY. 444 709

Date: -

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

ϵϽ Topic ϵϽ

primary structure of dicot ROOT

• Department Name •

BOTONY

• Name of the Student •

Sahil Nilesh Bhoyar

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

Date of submission : / /2021

→ **Guided By** ←

Mr. S.T. Pendam Sir

and

Mr. S.P. Patil Sir

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been ried out by following students of B.Sc. II (Sem-3) during the session 21-2022

Project Topic: - primary structure in dicot root

Signature
Teacher in charge

Head,
Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Date: -

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

Topic

Anatomy of root, primary structure of dicot and monocot root

• Department Name •

BOTONY

• Name of the Student •

Pratik Vijayrao Nagrikar

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

→ Guided By ←

Mr. S.T. Pendam Sir

and

Mr. S.P. Patil Sir

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been ied out by following students of B.Sc. II (Sem-3) during the session 2021-2

ect Topic: - Anatomy of root, primary structure of dicot and monocoat root

Signature
Teacher in charge

Head,
Department of ~~Chemistry~~. Botany

PRINCIPAL
Adarsha Science, J. B. Arts &

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,

Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (Sem IV) during the session (2021-2022)

Project Topic: - Perioxysome and Mitochondria

Signature
Teacher in charge

Head,
Department of Botany.
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Date: - 22.04.2022

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

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DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss.** KU. SONALI ANIL KALPANDE has carried out Project Work entitled CROSSING OVER successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 22/04/2022

~~**Botany**~~

Head
Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

Principal
PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya
Dhamangaon Rly

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

Department of Botany

CERTIFICATE

This is to certify that **Miss Krishna Chandak** has carried out Project Work entitled **"Chloroplast"** successfully during the Session 2021-22 for B.Sc. Part II **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 21.04.2022

Head

Department of botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss. Anuradha Padurang Pinjari** has carried out Project Work entitled **"Plasma membrane structure and function"** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head of Department Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Botany

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. II (SemIV) during the session (2021-2022)

Project Topic: - Prokaryotic cell and Eukaryotic Cell.

Signature
Teacher in charge

Head,
Department of Botany.

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Date: -22.04.22

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Scanned with OKEN Scanner

Department Of Botany

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY



CERTIFICATE

This is to certify that the project work submitted in this report has been Carried out by **Pratik V. Nagrikar**B.Sc. Part II (SEM. IV) during the session 2021-2022

Tital of Project:

" Cell cycle: Mitosis and Meiosis "

Signature of the Teacher Incharge

Date : 21-04-2022

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya

Head

Department of botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON (R.L.Y.)

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF Botany

CERTIFICATE

This is to certify that **Mr./Miss. Vaishnavi Pethe** has carried out Project Work entitled " Nomenclature of Enzyme" successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 18/04/2022

Department of Botany
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON RLY. 444 709

Principal
PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Department Of Botany

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

CERTIFICATE

This is to certify that the project work submitted in this report has been Carried out by **Sahil N. Bhoyar** B.Sc. Part II (SEM. IV) during the session 2021-2022

Title of Project:

" chromosome – morphology, types, centromere & telomere "

Signature of the Teacher Incharge

Date: - 21/04-2022

Head

Department of botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Mr. / Miss**. Tejas Sanjayrao Gawarle has carried out Project Work entitled" **Gene Mutations-Spontaneous and Induced** " successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission:22/04/2022

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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DEPARTMENTOFBOTANY

CERTIFICATE

This is to certify that ~~Mr.~~ / **KhushaliPundlikraoTarhekar**has carried out Project Workentitled **"Nucleus"**successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of SantGadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

SignatureofTeacherin-charge

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY, 444 709

Principal

Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Date of Submission: 25/04/2022

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SANT GADAGE BABA AMRAVATI UNIVERSITY
AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

PROJECT ON

TOPIC NAME: Ascent of sap

SUBMITTED BY

NAME OF THE STUDENT: Akshata A. Lokhande.

BSC PART III

(SEMISTER V)

(MCB)

GUIDED BY

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following Students of B.Sc. Part III (SEM. V) during the session 2021-2022.

Submitted by

Akshata A. Lokhande.

Project Topic

" Ascent of sap "

Signature of the Teacher In charge

Date:

Head

Department of Botany

PRINCIPAL
Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

:PROJECT ON:

Metabolism – Source of Nitrogen, Nitrogen Fixation And It's Role

:SUBMITTED BY:

KU. NIKITA G. KARANGALE

B.SC PART III

(SEMISTER V)

(MCB)

:GUIDED BY:

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. V) during the session 2021-2022.

:SUBMITTED BY:

KU. NIKITA G. KARANGALE

:PROJECT TOPIC:

Metabolism- Source of Nitrogen, Nitrogen Fixation And It's Role

Signature of the Teacher In charge

Date: 02-12-2021

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya.
Dhamangaon Rly

SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

:PROJECT ON:

PLANT MOVEMENT AND NASTIC MOVEMENT

:SUBMITTED BY:

KU. SHIVANI RAJU BHALERAO

B.Sc PART III

(SEMISTER V)

(MCB)

:GUIDED BY:

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. V) during the session 2021-2022.

:Submitted by:

KU. SHIVANI RAJU BHALERAO

:Project Topic:

PLANT MOVEMENT AND NASTIC MOVEMENT

Signature of the Teacher In charge

Date: 3/12/21

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
Department of Botany

SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

PROJECT ON

TOPIC NAME:" **Mineral absorption** "

SUBMITTED BY

NAME OF THE STUDENT: Bhagyashri V. Wanjari

BSC PART III

(SEMISTER V)

(MCB)

GUIDED BY

MR. S.T. PENDAM

MR. S.P. PATIL

2021-2022

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by followingstudents of B.Sc. Part III (SEM. V) during the session 2021-2022.

Submitted by

Bhagyashri V. Wanjari

Project Topic

" Mineral absorption"

Signature of the Teacher In charge

Date: 29-11-21

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyal
DHAMANGAON RLY
Department of Botany

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA DHAMANGAON (RLY)



Department Of Botany

Project on

"Growth, Phase of Growth and Growth Curve"

Submitted By

Miss. Palak A. Raut

B. Sc. III (Sem.V)

(MCB)

Guided by

Prof. S.T.Pendam Sir

Prof. S.P. Patil Sir

2021 -2022

ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.V) during the session 2021-2022.

Submitted By

Miss. Palak A. Raut

Project Topic -

""Growth, Phase of Growth and Growth Curve"

Signature of Teacher In charge

Date -22/11/2021

Head

Department of Botany

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts &
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY, 444 709

ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAY
A,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This istocertifythat **Mr. / Miss. – Shivani R.Bhalerao** has carried out ProjectWorkentitled **"-Gene Amplifiction** "successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacherin-charge

Head

Date of Submission:
23.04.2022

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY 444709

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. VI) during the session 2021-2022.

Submitted by

Akshata A. Lokhande.

Project Topic

"DNA replication in eukaryotes"

Signature of the Teacher In charge

Date: 20-01-2022

Head

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Commerce Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Department of Botany

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE

MAHAVIDYALAYA,DHAMANGAON RLY. , DIST. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that **Miss. Shraddha D.Pingari** has carried out Project Work entitled **"Growth Hormones"** successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 21/04/2022

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. VI) during the session 2021-2022.

Submitted By

Ku. SEJAL BABANRAO CHOUDHARI

Project Topic

GENE SOURCE: GENOMIC AND c-DNA LIBRARY

Signature of the Teacher In charge

Date:- 18-04-2022

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

Head

Department of Botany
Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. VI) during the session 2021-2022.

Submitted By

DIKSHA SHASHIKANT CHOUBE

Project Topic

GENE EXPRESSION - CENTRAL DOGMA

Signature of the Teacher In charge

Date:- 18-04-22

Head
Head of the Department
Department of Botany
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2021-2022.

Submitted By

Miss. Palak A. Raut

Project Topic -

"PROTEIN TRAFFICKING "

Signature of Teacher In charge

Date - 18/04/2021

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci. J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDHYALAYA, DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B. Sc. III (Sem.VI) during the session 2021-2022.

Submitted By

Miss.Janavi H. Titare

Project Topic -

"Endomembranesystem"

Signature of Teacher In charge

Date - 18/04/2021

Head

Department of Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY.

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAY
A,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This istocertifythat **Mr. / Miss. Kanchan A. Nyahare** has carried out ProjectWorkentitled **"Regulation of Gene Expression In Prokaryotes"**successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Head

Date of Submission: 19/04/2022

Departmentof Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDYALAY , DHAMANGAON (RLY)

DEPARTMENT OF BOTANY

CERTIFICATE

This is to verify that the project work submitted in this report has been carried out by following students of B.Sc . lll (Sem.VI) during the session 2021-2022 .

Submitted By

Miss . Vaishnavi L. Kardikar

Project on

"Protoplast Culture and Somatic Hybridization"

Signature of Teacher In charge

Date : 22-04-22

Head

Department botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts and
Birla Comm. Mahavidyalaya,
DHAMANGAON-RLY. 444 709

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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ADARSHASCIENCE,J.B.ARTS&BIRLACOMMERCEMAHAVIDYALAY
A,DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF BOTANY

CERTIFICATE

This istocertifythat **Mr. / Miss. Ashwini P.Wankhade**

has carried out ProjectWorkentitled **"Ac/ Dc Transposable Element in Maize"**successfully during the Session 2021-22 for **Semester VI** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 19/04/2022

Head

Departmentof Botany

Head of the Department
Department of Botany
Adarsha Sci., J. B. Arts & C.
Birla Comm. Mahavidyalaya
DHAMANGAON-RLY. 444 709

Principal

PRINCIPAL
Adarsha Science, J. B. Arts &
Birla Commerce Mahavidyalaya,
Dhamangaon Rly

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project Submission as a part of Internal Assessment)

TITLE OF PROJECT :

MUTATION BY ACRYDENCE DYES

SUBMITTED BY :

Name : Anju A. Dhanke

Class : B.Sc.II (Semester-III)

Date of Submission: 24/12/2021

Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Scanned with OKEN Scanner

Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Certificate

This is to certify that the project work submitted in this report has been carried out by *Ku. Anju A. Dhanke* ***(B.Sc. II Semester III)***

TITLE OF PROJECT :

MUTATION BY ACRYDENCE DYES

Signature of Teacher Incharge :
Date : 24/12/2021

Head
Department Of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project Submission as a part of Internal Assessment)

TITLE OF PROJECT :

PROBIOTIC ORGANISM

SUBMITTED BY :

Name : Ku. Diksha S. Dhanke

Class : B.Sc.II (Semester-III)

Date of Submission: 24/12/2021

Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

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Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Certificate

This is to certify that the project work submitted in this report has been carried out by *Ku. Diksha S. Dhanke* ***(B.Sc. II Semester III)***

TITLE OF PROJECT :

PROBIOTIC ORGANISM

Signature of Teacher Incharge :
Date : 24/12/2021

Head
Department Of Microbiology

PRINCIPAL
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& Birla Commerce Mahavidyalaya
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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

High Frequency of Recombination (Hfr) formation

By

Punam Prakash Meshram

B. Sc. II (Sem. III)

Date of submission – 20.12.21

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly.)

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem.III) during the session 2021-2022.

Punam Prakash Meshram

Project Topic:

"High Frequency of Recombination (Hfr) formation"

Signature of Teacher in charge

Date- 20.12.2021

Head

Department of Microbiology

PRINCIPAL
Adarsha Sci... J.B. Arts
... Vidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

Topic

Vectors Used In Gene Cloning

By

Asmita S.Shrirame

B. Sc. II (Sem. III)

Date of submission –24/12/2021

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly.)

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc.-II (Sem.III) during the session 2021-2022.

Asmita S.Shrirame

Project Topic:

"Vectors Used In Gene Cloning"

Signature of Teacher in charge

Head

Date- 24.12.2021

Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE AND JB ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

Topic

Mechanism of DNA replication

• Department Name •
MICROBIOLOGY

• Name of the Student •

Ku. Anuradha P. Pinjari

• Class : B.Sc. 2nd Year 3rd Sem. •

• Group : MCB •

→ **Guided By** ←

Mr. Nilesh A. Sonune

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Department Of Microbiology

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by Miss Anuradha Pandurang pinjari of B.Sc.II (Sem III) during the session 2021-2022.

Project Topic

Mechanism of DNA replication

Signature
Teacher in charge
Date 24-12-2021

Head
Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA, DHAMANGAON RLY., DISTT. AMRAVATI



Topic

" innate immunity"

Submitted by

Yadavi .M Gawande

B.Sc. II (Sem-IV)

Date of Submission:30 /04/2022

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce
MahavidyalayaDhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
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Adarsha Science, J.B. Arts and Birla Commerce, Mahavidyalaya
Dhamangaon Rly.
Department of Microbiology

CERTIFICATE

This is to certify that **Miss Yadvi Gawande** has carried out project work entitled "**Innate Immunity**" successfully during the session 2021-22 for B.Sc. II semester IV in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in charge

Head

Date of Submission: 30/04/2022

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI



Topic

Antigenic Determinants

Submitted by

Aditya A. Ahir

B.Sc. II (Sem-IV)

Date of Submission: 12/05/2022

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

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DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. Aditya A. Ahir** has carried out Project Work entitled **Antigenic Determinants** successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

Date of Submission: 12/05/2022

Head

Department of Microbiology

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)

- Project Assignment Topic –

Rabies

Submitted by:
Ku.Shreya Thakur

B.Sc. Part II Sem III (MCZ)

Date of submission:-
12/5/2022

Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly, Dist. Amravati 444709

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Adarsha Science, J.B. Arts and Birla Commerce Mahavidyalaya, Dhamangaon (Rly).

Department Of Microbiology

CERTIFICATE

This is to certify that the Assignment work submitted in this report has been carried out by following student of B.Sc. II (Sem IV) during the session (2021-2022)

❖ **Student Name:- Ku.Shreya Thakur**

Project Topic: - Rabies

Signature
Teacher in charge

Date: - 12/05/2022

Head,
Department of Microbiology.

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

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ADARSHA SCIENCE,J.B.ARTS&BIRLA COMMERCE

MAHAVIDYALAYA ,DHAMANGAON RLY., DISTT. AMRAVATI



Topic

Prophalaxys of vibrio cholera

Submitted by

Mrunal santoshrao sawant

B.Sc.II(Sem-IV)

Date of Submission: 29/04/2022

Department of Microbiology

Adarsha Science,J. B.Arts and Birla Commerce Mahavidyalaya

Dhamangaon (Rly).

Academic Session:2021-2022

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MAHAVIDYALAYA, DHAMANGAON RLY. , DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.** Mrunalsantoshrao sawanthas carried out Project Work entitled Prophalaxys of vibrio cholerasuccessfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacherin-charge

Head

Date of Submission: 29/04/2022

Department of Microbiology

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DIST. AMRAVATI

Topic

Pathogenicity of clostridium tetani

Submitted

Sayali A. Gulhane

B.Sc. II (Sem-IV)

Date of Submission: 30/04/2022

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly).

Academic Session: 2021-2022

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MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that **Mr. / Miss.**Sayali A. Gulhane has carried out Project Work entitled Pathogenicity of clostridium tetani successfully during the Session 2021-22 for **Semester IV** in compliance with the rules and regulation of Sant Gadge Baba Amravati University, Amravati for the allotment of Internal Assessment Marks.

Signature of Teacher in-charge

HEAD

Date of Submission: 30/04/2022

Department Of Microbiology

Head
Department of Microbiology
Adarsha Sci., Jr. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

Principal
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Dhamangaon Rly.

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY 444709

DEPARTMENT OF MICROBIOLOGY

PROJECT ON

TOPIC NAME: Antibacterial Effect Of Neem Extract

SUBMITTED BY

NAME OF THE STUDENT: SHRUTIKA ARUNRAO BHOYAR

BSC PART III

(SEMISTER V)

(MCB)

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ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY 444709

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by following students of B.Sc. Part III (SEM. V) during the session 2020-2021.

Submitted by

SHRUTIKA ARUNRAO BHOYAR

Project Topic

" Antibacterial Effect Of Neem Extract

Signature of the Teacher In charge

Head

Date: 24/1/22

Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADAGE BABA AMRAVATI UNIVERSITY AMRAVATI

(Project Submission as a part of internal Assessment)

Tital of Project :

"Atmosphere And Its Layer"

Submitted by :

Shivani R. Bhalerao

Class : B.Sc.III (semester- V)

Date of submission:- 3-1-2022

DEPARTMENT OF Microbiology

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA,
DHAMANGAON RLY 444709

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Department of Microbiology

ADARSHA SCIENCE J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

CERTIFICATE

This is to certify that the project work submitted in this report has been

Carried out by **,Shivani bhalerao**

B.Sc. Part III (SEM. V)

Tital of Project:

"Atmosphere And Its Layer"

Signature of the Teacher Incharge

Date: 3-1-22

Principal
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Head

Department of Microbiology

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SANT GADGE BABA AMRAVATI UNIVERSITY

AMRAVATI

(Project submission as a part of internal assessment)

TITLE OF PROJECT

"Treatment of water "

SUBMITTED BY:

Name: Akshata A. Lokhande.

Class: Bsc. III (semester V)

Date of submission:

Department of Microbiology

Adarsha Science, J.B Arts and Birla Commerce

Mahavidyalay, Dhamangaon rly.

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Department of Microbiology

Adarsh Science, J. B. Arts and Birla Commerce Mahavidyalay Dhamangaon rly.

Certificate

This is to certify that the project work submitted by in this Report has been carried out by Ms. Akshata A. Lokhande. (BSC III Sem-V).

TITLE OF PROJECT

"Treatment of water "

Signature of Teacher incharge:

Date. 27/01/22

Head

Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project report submission as a part of internal assessment)



Topic

Tricking Filter

By

Ku. Nikita Gajanan karangale

B.Sc.III (Sem V)

Date of submission:- 24/01/22

Department of Microbiology

Adarsha Science,J.B. Arts and Birla Commerce Mahavidyalaya,Dhamangaon (Rly).

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DEPARTMENT OF MICROBIOLOGY

ADARSHA SCIENCE, J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON (RLY).

CERTIFICATE

This is to certify that the project work submitted in this report has been carried out by Ku. Nikita Gajanan karangale

Project Topic:- Biological Control of Insects

Signature of Teacher in charge

Date- 27/01/22

Head

Department

of

Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

ADARSH SCIENCE, J.B. ARTS & Birla COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY,



Topic

"Biodegradation of Polythene bags"

Submitted by

Miss : Shreya V.Kandalkar .

B.Sc. III (Sem v)

Date of submission:31/12/2021

Department Of microbiology

Adarsh Science, J. B. Arts and Birla Commerce Mahavidyalaya Dhamangaon(Rly)

Academic Session : 2021-2022

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ADARSHA SCIENCE, J.B. ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY

DEPARTMENT OF MICROBIOLOGY

"CERTIFICATE"

This is to certify that the Project Work entitled "Biodegrationof Polythene bags" submitted in this report has been carried out by Miss.Shreya Vinod Kandalkarof B.Scill(Semester-v) during the academic session 2021-2022

Signature of Teacher In-charge

Date- 27/01/22

Head

Department of Microbiology

Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADAGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project submission as a part of internal assessment)



:TOPIC:

Pasteurization

By

Mr. Dinesh N Dagwar

B.Sc III (SEM VI)

Date of submission :– 04-04-2022

Department of Microbiology

Adarsha Science J.B. Arts And Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

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Department of Microbiology

Adarsha Science J.B. Arts And Birla Commerce Mahavidyalaya,
Dhamangaon (Rly)

Certificate

This is to certify that the project work submitted in this report has been carried out by **Mr. Dinesh N Dagwar** B.Sc.III (SEM VI) during the session 2021-2022

TOPIC

Pasteurization

Signature of Teacher Incharge **Head**

Date:- 04-04-2022

Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly

Head
Department of Microbiology
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Commerce Mahavidyalaya,
Dhamangaon Rly.

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Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Certificate

This is to certify that the project work submitted in this report has been carried out by Miss. Palak A. Raut

Class :B.Sc III (sem VI)

TITLE OF PROJECT

" MANUFACTURE OF YOGHURT "

Signature of Teacher Incharge :

Date : 09/04/2022

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly

Head

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project Submission as a part of Internal Assessment)

TITLE OF PROJECT:

"INDUSTRIAL PRODUCTION OF B.."

SUBMITTED BY:

Miss. Samiksha G. Thor

Class :B.Sc III (sem VI)

Date of Submission: - 09/04/2022

Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

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Department of Microbiology

Adarsha Science, J. B. Arts & Birla Commerce Mahavidyalaya, Dhamangaon Rly

Certificate

This is to certify that the project work submitted in this report has been carried out by Miss. Samiksha G. Thor

Class :B.Sc III (sem VI)

TITLE OF PROJECT

" INDUSTRIAL PRODUCTION OF B_{12} "

Signature of Teacher Incharge :

Date : 09/04/2022

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Head
Department Of Microbiology
Head
Department of Microbiology
Commerce Mahavidyalaya,
Dhamangaon Rly.

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AMRAVATI

ADARSH SCIENCE,J.B ARTS AND BIRLA COMMERCE MAHAVIDYALAYDHAMANGAON (RLY)



Department Of Microbiology

Project on

"Industrial Production Of wines "

Submitted By

Miss.Shraddha D.Pinjari

Class : B.Sc. lll (SemVl)

(MCB)

Date of submission : 08/04/2022

2022_2023

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ADARSHA SCIENCE, J. B. ARTS AND BIRLA COMMERCE MAHAVIDYALAY , DHAMANGAON (RLY)

DEPARTMENT OF Microbiology

CERTIFICATE

This is to verify that the project work submitted in this report has been carried out by following students of B.Sc . lll (Sem.vi) during the session 2022-2023.

Submitted By

Miss.Shraddha D.Pinjari

Project on

" Industrial Production Of wines "

Signature of Teacher In charge

Head

Date : 08/04/2022

Department Of Microbiology

Head
Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

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Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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SANT GADAGE BABA AMRAVATI UNIVERSITY, AMRAVATI

(Project submission as a part of internal assessment)



:TOPIC:

Sources Of Microorganisms in Food

By

Mr. Siddhant R. Dhokane

B.Sc III (SEM VI)

Date of submission :- 4-4-22

Department of Microbiology

Adarsha Science J.B. Arts And Birla Commerce Mahavidyalaya, Dhamangaon (Rly)

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Department of Microbiology

Adarsha Science J.B. Arts And Birla Commerce Mahavidyalaya,
Dhamangaon (Rly)

Certificate

This is to certify that the project work submitted in this report has been carried out by **Mr. Siddhant R. Dhokane** B.Sc.III (SEM VI) during the session 2021-2022

TOPIC

Sources Of Microorganisms in Food

Signature of Teacher Incharge

Date:- 4-4-22

Head

Department of Microbiology

Department of Microbiology
Adarsha Sci., J. B. Arts & Birla
Commerce Mahavidyalaya,
Dhamangaon Rly.

PRINCIPAL
Adarsha Science, J.B. Arts
& Birla Comm. Mahavidyalaya
Dhamangaon Rly.

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ADARSHA SCIENCE, J. B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY., DISTT. AMRAVATI



Topic

"Single Cell Protein "

Submitted by

Ashwini P.Wankhade

B.Sc. III (Sem-VI)

Date of Submission: 09/04/2022

Department of Microbiology

Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya
Dhamangaon (Rly.)

Academic Session: 2021-2022

ADARSHA SCIENCE, J.B. ARTS & BIRLA COMMERCE
MAHAVIDYALAYA,DHAMANGAON RLY. , DISTT. AMRAVATI

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A

Project on

"ABILITY OF CINNAMON AND CURRY TO INHIBIT THE BACTERIAL GROWTH"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Miss. Pranjali S. Lute

M. Sc. Part-II

Supervisor

Miss. R. P. Chakve



P. G. DEPARTMENT OF MICROBIOLOGY

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRALA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY.

2021-2022

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P. G. DEPARTMENT OF MICROBIOLOGY

Adarsha Science, Jairamdas Bhagchand Arts and Birala Commerce Mahavidyalaya, Dhamangaon Rly

Amravati University

CERTIFICATE

This is to certify that the dissertation entitled **"Ability of Cinnamon and Curry to Inhibit the Bacterial Growth"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Pranjali S. Lute** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

Dr. N. A. Sonune
Head
Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
Dhamangaon Rly.

Miss. R. P. Chakve
Guide
Department of Microbiology

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A

Project on

"PRODUCTION OF SHAMPOO FROM FERMENTED RICE WATER"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Miss. Rachana V. Gongase

M. Sc. Part-II

Supervisor

Miss. M. A. Bhoge



P. G. DEPARTMENT OF MICROBIOLOGY

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRALA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY.

2021-2022

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P. G. DEPARTMENT OF MICROBIOLOGY

Adarsha Science, Jairamdas Bhagchand Arts and Birala Commerce Mahavidyalaya, Dhamangaon Rly

Amravati University

CERTIFICATE

This is to certify that the dissertation entitled **"Production of Shampoo from Fermented Rice Water"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Rachana V. Gongase** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

Dr. N. A. Sonune
Head
Department of Microbiology

PRINCIPAL
Adarsha Science, J.B. Arts & Birla Comm. Mahavidyalaya
Dhamangaon Rly.

30/05/22
Miss. M. A. Bhoge
Guide
Department of Microbiology

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A

Project on

"ISOLATION AND IDENTIFICATION OF MICROORGANISMS FROM VARIOUS SURFACES IN LABORATORY AND THEIR RESPONSE TO DIFFERENT DISINFECTANTS"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Miss. Riddhi V. Bhande

M. Sc. Part-II

Supervisor

Miss. M. A. Bhoge



P. G. DEPARTMENT OF MICROBIOLOGY

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRALA COMMERCE MAHAVIDYALAYA,

DHAMANGAON RLY.

2021-2022

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Adarsha Science, Jairamdas Bhagchand Arts and Birala Commerce Mahavidyalaya, Dhamangaon Rly

Amravati University

CERTIFICATE

This is to certify that the dissertation entitled **"Isolation And Identification of Microorganisms From Various Surfaces In Laboratory And Their Response To Different Disinfectants"** is being submitted in the partial fulfillment for the award of degree of Master of Science in Microbiology, S. G. B. A. U., Amravati has been prepared by **Miss. Riddhi V. Bhande** under my guidance and supervision. This work has not been submitted or any other degree of any other university in India or abroad.

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Department of Microbiology		Department of Microbiology

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A

Project on

"PREPARATION OF TABLET FROM STEM OF *TINOSPORA CORDIFOLIA* AND CHECK THEIR ANTIMICROBIAL ACVTIVITY AGAINST *E.COLI* & *P.VULGARIS*"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Mr. Sagar V. Thakare

M. Sc. Part-II

Supervisor

Dr. N. A. Sonune

P. G. DEPARTMENT OF MICROBIOLOGY

ADARSHA SCIENCE, JAIRAMDAS BHAGCHAND ARTS AND BIRALA COMMERCE MAHAVIDYALAYA,

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A

Project on

"ISOLATION AND IDENTIFICATION OF BACTERIA FROM FOOD VENDORS AND SOME VEGETABLES"

Submitted in partial fulfillment for degree of

MASTER OF SCIENCE
IN
MICROBIOLOGY

Submitted By

Miss. Sana Parveen Kadir Shah

M. Sc. Part-II

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Miss. M. A. Bhoge



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