## **Academic Diary**

## PERSONAL INFORMATION



1)	Name	: SAURABH ASHOK GHOGARE
2)	Qualification	M.sc., Ph.D
		: Assistant professor
3)	Designation	
4)	Course	: Computer science
5)	Residensial	: Rathi Noger, Dhamangam Rly.
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15)	Insurence Policy No	
16)	Blood Group	: ABT

Session: 2020 - 2021 Class: BISC-T Section: Sem-T

S.No. Unit & Topic	Required Lectures		ation To	Periods Taken	2 emarks
B.ScI Sem-I			10	Taken	Ke
Computer Fundamentals of Information			0.11		4.1
Technology and C Programming UNIT-I:			AND TO SEE THE SE		
Introduction to Computers:					¥
Characteristics, Generation &		1 -1 01	7.1.	7/3	
Classification of computers, Block		159	28/11	19	Compi
diagram of computer, Memory and their types: Primary and Secondary, Flash &		2020	2020		
Serial access Memory, Peripheral Devices:			1	To los	A. Saint
Keyboard, Mouse, Scanner, Printer:				W/J	. A
Impact, Non-Impact, DMP, inject, Laser	) X			4	
Unit-II:		7 1 121		1.3.	
Introduction to OS: Need, Types of OS:					
Batch, Multiprogramming, Time sharing,		1			3
online real time system, features of Unix					
OS, Windows XP & windows 7. File		3/12	21/01		Como
Handling: File naming, Files Structure,		2020	3 100 100	19	Comp
File Types, File access, File Attributes:		2020.	2021		1
protection, password, creator, owner,					THE BOTT
hidden flag, read only flag, actual size.	1			1	
Operation on file: create, delete, open,					
close, read, write, append, seek, rename.				1/2	in .
UNIT-III:					
Networking: Introduction, Need of					
computer communication network,	1				
communication protocol, types of network. Topology: Star, Ring, Bus & Mesh.		2301	13/13	20	Compl
Introduction to internet: History, types of	P. WILLIAM	2021	2021	120	
internet connection: Direct, dialup,	,	4	121		
broadband, Internet protocol: TCP/IP, FTP, HTTP, Domain, URL, e-mail	The second second				1 4.8a
FTP, HTTP, Domain, OKL, Comain	1		1 16.92	1 6	1
address, Web browser: Internet Explorer, Netscape navigator, search engines.	A SHEET IN				77

PRACTICAL

Session: 2020 - 2021 Class: Q.5(-T Section: Sem=11 Subject: Computer science Paper / Unit:

S.No. Unit & Topic	Required	Dur	ation	Periods	,KS
	Lectures	From	To	Taken	Remarks
B. Sc-I, Sem-II			6		7
Web Technology and Advance Programming in C	(v				
Unit I:		Via I	1 - 1	mar .	
HTML: History of Markup language,	1 - 2 /	C 2 1	151	1 1	
introduction to HTML, Structure of HTML	5 ,0				
Document, Elements, Attributes,		16/3	615	19	Complete
Tags: <html>, <head>, <title>,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;2021&lt;/td&gt;&lt;td&gt;202&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;BODY&gt;, heading Tag, &lt;P&gt;, &lt;BR&gt;, &lt;B&gt;,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;13&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;I&gt;, &lt;HR&gt;, table tag, list tag, &lt;A&gt;,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Ye.&lt;/td&gt;&lt;td&gt;1.3&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;LINK&gt;, &lt;IMG&gt;, &lt;MARQUEE&gt;,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;E&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;BLOCKQUOTE&gt;, attributes: align,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;2014&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;background color, text color.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;. 1&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;The second&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;UNIT II:&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;157&lt;/td&gt;&lt;td&gt;13 1 16&lt;/td&gt;&lt;td&gt;1 6&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Style sheet: Introduction, Advantages and&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;19 °&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;application of style sheet, CSS:&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;introduction, syntax of CSS with example,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;3&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Type of style sheet(Internal, External and&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;85&lt;/td&gt;&lt;td&gt;10&lt;/td&gt;&lt;td&gt;11.0&lt;/td&gt;&lt;td&gt;complete&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Inline), Units, classes and ID attributes,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;2001&lt;/td&gt;&lt;td&gt;202&lt;/td&gt;&lt;td&gt;&lt;math&gt;\neg&lt;/math&gt;&lt;/td&gt;&lt;td&gt;Compile&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Properties: Test, font, color, background,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;202&lt;/td&gt;&lt;td&gt;- 202&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;border, display, height, line-height,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;· .&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;margin, width, CSS width HTML and&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;*&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;XML.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;UNIT III:&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;XML: Features of XML, Simple XML&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;document, Elements, Attributes,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;100&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Components of XML document: document&lt;/td&gt;&lt;td&gt;Control of the control of the contro&lt;/td&gt;&lt;td&gt;101-7&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;prolog and document instance. DTD&lt;/td&gt;&lt;td&gt;Charles and Charles&lt;/td&gt;&lt;td&gt;3/07&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Complete&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(Document type Definition): Introduction,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;202&lt;/td&gt;&lt;td&gt;1 202&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Need of DTD, declaring elements, element&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;content model, declaring attributes.&lt;/td&gt;&lt;td&gt;A.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;* A&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;attribute types, internal and external DTD.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;¥-&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;176&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;201&lt;/td&gt;&lt;td&gt;3 710&lt;/td&gt;&lt;td&gt;8 17&lt;/td&gt;&lt;td&gt;Complete&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;PRACTICAL&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;202&lt;/td&gt;&lt;td&gt;1 91&lt;/td&gt;&lt;td&gt;717&lt;/td&gt;&lt;td&gt;September 1&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></head></html>					

Session: 2020-2021 Class: B.5C-II Section: Sem=III

S.No.	Unit & Topic	Required	Dur	ation	Periods	NS
I A		Lectures	From	To	Periods Taken	Remark
	B. Sc-II, Sem-III Data Structure and C++		3		1	
structory primit non-line operate and operate inserting and	Unit I: structure: Introduction to data ure, types of data structure: tive and non-primitive, linear and near data structure, data structure tions. Linear arrays: Definition concepts, representations, ions on arrays: traversing, ng, deleting. Stacks: Definition concepts, representations, ions on stacks: Push, Pop		2917	5/10	27	Complet
represedelete; dequeut fintrodut ist, typ and do	Unit II: s: Definition and concepts, entations, operations: Insert and concept of circular queue, ae, priority queue. Linked List: action, implementation of linked pes of linked list: single, circular publy linked list. Operations on list: Insert, Delete, Search.		7/10	8/1	26	Comple
ree, trore-ord Searchicorting orting Insertions	Unit III: Definition and concept, binary raversing operations: in order, er, post-order Sorting and ng: Definition and concept, techniques: bubble, selection, n, merge and quick sort. ng techniques: Sequential and searching.		11/1	15/3	. 27	Complete
- 1 - Com	PRACTICAL		14/9	8 3	21	amolate

Session: 2020 - 2021 Class : B.SC=TT Section: Sem IV Subject: Computer science Paper/Unit:

Subject: Computer science Pape	Required	Dur	ation	Periods	rks
S.No. Unit & Topic	Lectures		То	Taken	Remarks
B. Sc-II, Sem-IV Computer Science / Computer Application/ Information Technology RDBMS and PL/SQL		155	201		
UNIT-I: Fundamental of DBMS: Traditional file approach and comparison with DBMS Architecture of a database system, Data base approaches, storage structures, data representation, data independence, database models: Relational, Hierarchical, network, Relational Algebra, Object Based model, data dictionary and Database Administration.		1743	3 5	16	Complete
UNIT-II: Relational Model: Relations, Domains and Attributes, keys, E-R diagrams, Reducing E-R diagrams to tables, function dependency, Entity, Relationship, Mapping Constraints, Normalization: 1NF, 2NF, 3NF, 4NF, BCNF.		5 (5	<u>25 6</u> 2021	16	Complete
UNIT-VI:  Transaction: Rollback, commit and save point, rollback segment. Create Procedure and create function. Securities of Database: Users, creating users, roles, creating roles, types of privileges, GRANT, REVOKE command, Table and Row Locking.		2816	618	- 17	Complete
PRACTICAL		2213	1	16	Completed

Session: 2020-2021 Class: B.S.C-TIT Section: Sem Subject: Computer science Paper/Unit:

S.No.	Unit & Topic	Required	Dur	Duration		NS
1 bis		Lectures	From	To	Periods Taken	Remark
Introdu frames Names Langu Garba	B. Sc-III, Sem-V echnology and Java Programming Unit I: uction to .NET Framework: NET work, MSIL, CLR, CLS, CTS, spaces, Assemblies the Common age Implementation, Assemblies, ge Collection, The End to DLL Managed Execution		2817 2020	7/10	27	Complete
Introdu Conce Introdu .NET Langua Applic Integra Langua windou Declar	Unit II: luction to visual programming: pt of event driven programming - uction to VB.Net environment, the Framework and the Common age Runtime. Building VB.NET cations, The Visual Basic		9110	811	27	Complet
with In Case, and Case, Loop, Handli Converted Arrays Strings	Unit III: ons and loop: Making Decisions f-Else Statements, Using Select Making Selections with Switch Choose, Loop Statements-Do for, while-The with Statement- ing Dates and Times — rting between Data Types- rting between Data Types- reduction and manipulation - s & string functions - Sub lures and Functions		121 L 2021	12\3	27	Complete
	PRACTICAL		1718	413	21	completes

Session: 2020-2021 Class: B.36-III Section: Sem-VI Subject: Computer Science Paper / Unit:

S.No. Unit & Topic	Required	Dur	ation	Periods	rks
	Lectures	From	То	Taken	Remai
B. Sc-III, Sem-VI Advanced Java and VB.net Unit IV: Windows Applications: Forms: Adding Controls to Forms, Handling Events,		16/3	30/4	<b>T</b> 8	Completes
MsgBox, InputBox, Working with Multiple Forms, Setting the Startup Form, SDI & MDI Forms, Handling Mouse & Keyboard Events, Common controls: Text Boxes, Rich Text Boxes, Labels, Buttons, Checkboxes, Radio Buttons, Group Boxes, List Boxes, Checkbox & Che					
List Boxes, Checked List Boxes, Combo Boxes, Picture Boxes, Scroll Bars, Tool Tips, Timers, properties-methods  UNIT V:		de residente	7	2	
Object Oriented Programming: Classes and Objects: Class definition, creating objects, Defining Member functions, Methods and Events, Attaching a class with form, Delegates. Exceptions Handling: Exception classes in .net framework, Structured and Unstructured exceptions, tracing errors, breakpoints, watch, Quick watch.		415	25   6 2021	17	Complete
UNIT-VI:  Data Access with ADO.Net, accessing data with Server Explorer, Accessing Data with data Adaptors and Datasets, creating a new data connection, creating and populating Data set, displaying data in Data Grid, selecting a data provider, Data accessing using Data adapter Control, Binding Data to Controls.		29/6	6 8	17	Complete
PRACTICAL		18/3	2917		Complete

## Personal Time Table(Theory)

Periods	I	2	3	4	5	6	7	8	dr.
Time Day	9:40	10:30	11:20	12:10	1:15	2:05	2;55		4:35
Mon	,							S	1
Tue	5	F		*					
Wed		T	t) a sign	S					
Thu	rijer,		F	2.3			A.,,		
Fri		¢a		-5-	31 5.15	6 C		F	
Sat		le de la company	4	art and a second		al. a.	1 111		

Personal Time Table(Practical)

	Mor	ning			V. A.IV	Evening	- Lor x = 1.	1
Periods	1611	2	3	4	5	6	7	8
Time Day	10:30	11:20	12:10	1:15	2:05	2:55	3:45	4:35
Mon			1 30 6	5-	>			
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Wed				St. No.	·	122		
Thu			<	$-T_{ii}$	->			
Fri			1	0 211			. 7	
Sat			4	<u>-</u> A -	->			

## **Academic Diary**

#### PERSONAL INFORMATION

1)	Name	: Dr. Pravin M. Keche
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15)	Insurence Policy No.	
16)	Blood Group	:B+''

S.No. Unit & Topic	er /Unit :					
	Lectures	From	To	Taken	Remarks	
Sem III Inorganic Chemistry:  Unit I  A] Covalent Bonding: Molecular Orbital Theory.  Postulates of MO theory. LCAO approximation.  Formation of bonding and antibonding MOs. Rules for LCAO. MO energy level diagram. Concept of bond order.  MO structure of homonuclear diatomic molecules of namely He2, H2, N2 and O2. Stability sequence of species of O2 i.e. O2, O2 +, O2 2+, O2 - and O2 2.  Paramagnetic nature of O2. MO structure of heteronuclear diatomic molecules viz. NO, HF and Co. (Coulson's structure). Explanation of important properties of CO viz triple 15 16 bond, almost nonpolar nature.	n. or r. of of of of of of	28% July 2020	7 <sup>th</sup>	10	4 Par Unit	et y
electron donor and acceptor behaviour. Comparison of VB and MO theories.	of					
B] Metallic Bonding: Free electron theory are properties of metals such as electrical and therm conduction, malleability, ductility and metallic lusture VB theory or Resonance theory of metals. Band theory to explain nature of conductors, insulators are completed to the conductors.	e. 04	8 th Sept 2020		05	B. Par Uni	1 ole
C] VSEPR Theory: Various rules under VSEP theory to explain molecular geometry (following examples may be taken to explain various rules-BeCl2 BF3, CH4, NH4+, PCl5, SF6, IF7, SnCl2, NH3, HO, SF4, ClF3, BrF5, XeF6, SOF4, COF2, PCl3, Limitations of VSEPR theory. [5]	o7	204 Oct 2016	144 Dec	وه	C Pa	ph ple

Session: 2020-2] Class	ss :	B.SC.	II.	Section	sem-I
Subject: CHEMTSTRY Paper	er/Unit:	Mazach	THE CO	(en)	Init-I
Unit & Tonic	Required Lectures		To To	Periods Taken	Remarks
Volumetric Analysis: (a) Introduction:- Volumetric analysis, titrant, titrate, end point, equivalence point, indicator etc. Requirements of volumetric analysis. Definition of standard solution, primary standard substance. Requirements of primary standard substance. Terms to express concentrations namely- molarity, mormality, molality, mole fraction and percentage. (Simple numericals expected). (b) Acid-Base titrations:- Types of acid base titrations. pH variations during acid base titration. Acid base indicators. Modern theory (Quinoniod theory) of acid base indicators. Choice of suitable indicators for different acid base titrations. (c) Redox Titrations:-General principles involved in redox titrations (redox reactions, redox potentials, oxidant, reductant, oxidation number). Brief idea about use of KMnO4, K2 Cr2 O7 as oxidants in acidic medium in redox titrations. Use of I2 in iodometry and iodimetry. Redox indicators-external and internal indicators. Use of starch as an indicator. Iodometric estimation of Cu (II).	12-	15th Dec 2020	11 m Sept Jan 2004	13	unit
B] Gravimetric Analysis: Definition. Theoretical principles underlying various steps involved in gravimetric analysis with reference to estimation of barium as barium sulphate. Coprecipitation and post precipitation. (Definition, types and factors affecting	08	124 Jan 2021	16th feb 2021	80	unit

Session: 2020-2   Class Subject: CHEMISTRY Paper	:_ :/Unit : <u>(</u>	leganica	THES	ection:	TIT & T	<u>-V</u>
S.No. Unit & Topic	Required Lectures	Dura		Periods Taken		
A] Heterocyclic compounds: Nomenclature, Pyrrole: Synthesis from acetylene, succinimide and furan, Basicity, Electrophilic substitution reactions (orientation) - nitration, sulphonation, acetylation and halogenation. Molecular orbital structure. Pyridine: Synthesis from acetylene and pentamethylene diamine hydrochloride, Basicity, Electrophilic substitution reactions (orientation) - nitration, sulphonation, Nucleophilic substitution reactions (orientation) - with NaNH2, C6 H5 Li and KOH. [3]	12-	3154 July 202	19 H3 Sept	12	A p au unit Comp	et of
B] Organometallic compounds: Grignard reagents: Methyl magnesium bromide- Synthesis from methyl bromide (only reaction) Synthetic applications: Electrophilic substitution reactions-formation of alkanes. Alkenes, higher alkynes and other organometallic compounds, Nucleophilic substitution reactions- Reaction with aldehydes and ketones, ethylene oxide, acety chloride, methyl cyanide and CO2. [4] Methyl lithium synthesis and reaction with water, formaldehyde acetaldehyde, acetone, ethylene oxide and CO2	1 12	25 <sup>th</sup> Sept 2020	274 Nove 2022		B	part
Unit M  A] Dyes: Classification on the basis of structurand mode of application, Preparation and uses of Methyorange, Crystal violet, Phenolphthalein, Alizarin and Indigo. [5]	1 20	28th NOV 2021	De	06	(0	
B] Drugs: Analgesic and antipyretics: Synthesiand uses of phenylbutazone. Sulpha drugs: Synthesis an uses of sulphanilamide and sulphadiazine. Antimalarial Synthesis of chloroquine from 4,7-dichloroquinoline and its uses. [5]	d s: 66	Dec Jam		n 06		
C] Pesticides: Insecticides: Synthesis and uses of malathion. Herbicides: Synthesis and uses of 2,4-dichlor phenoxy acetic acid (2,4-D). Fungicides: Synthesis are uses of thiram (tetramethyl thiuram disulphide. [4]	06	2247 Jan 222	Seb 202	, 0	1	

#### Personal Time Table(Theory)

Periods	1	2	3	4	. 5	6	7	8	9
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Theory - 04 Periods

Personal Time Table(Practical)

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	Mon	ning 💯 🗇	ia 's			Evening		- 9	
Periods	1. T.		3	4	5	6	7	8	
Time Day	10.30	11.20	12-10	1.15	2.05	2.55	3.45	4.35	5
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Fri		- 420					· — — /	23/	100
Sat							- 4.		

Practical - 18 Periods

## **Academic Diary**

### PERSONAL INFORMATION

1)	Name	: Dr. Sachin V. Monohare
2)	Qualification	M.Sc. NET- JRF, GATE, Ph.D
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6)	Telephone No	(Res.)
7)	Telephone No	:07222-237045Dept.)
8)	Mobile No	9096826056
9)	E-mail	smanohareagmail.com
10)	PAN No.	*
11)	G.P.F. Account No	);
12)	Bank Account No	1
13)	Vehicle No	
14)	Driving Licence No.	
15)	Insurence Policy No.	
16)	Blood Group	:At

Session: 2020 - 21 Class: B.Sc.T Section: S-I
Paper/Unit: Unit III. Trand V \_\_\_\_ Class

Subject : CHEMISTRY

		er/Unit:	Duit	ا والله	cona	<u>V</u>
S.No.	Unit & Topic	Required Lectures		ation To	Periods Taken	2 omarks
1	Unit. III A-Electronic Displace ment B-Reactive Intermedi -ates c-Aliphatic Hydroca -rbons	14	55\08\		-30	20 per lightod Diggni Cherr
3	Unit-IX Aromatic Hydroca rbons- Nomenclature and isomerism Aromaticity Mechanism of AESR Orientation Unit-Y	14	24°24	31/3/	1	
	Thermodynamics	14	01/4/2	(8] <b>5</b> (2)	18	

Session: 2020-21 Class : B.Sc. II Section: S-V

CHEMISTRY Paper/Unit: V and VI

5. No.	Unit & Topic	Required	Dur	ation	Periods	14
Carl All		Lectures		То	Taken	Remark
The state of the s	Unil & Photochemistry	14	35 25	03/1J /20		
	Unil-VI Molecular spectroscopy	14	23/ 23/	16/2	26	
er de en						

## Personal Time Table(Theory)

Periods	1	2	3	4	5	6	7	8	9
Day	10:30	11.20	12-10	1.15	2.05		7	4.35	-
Mon			Ser optio	1	B.Sc. III				
Tue					BScII				
Wed		BScI				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Thu		13.5cI							
Fri				: , e, ' , ,		B.ScI			
Sat					. Y 				

Personal Time Table(Practical)

	Morr	ning				Evening		
Periods	1	2	3	4	5	6	7	8
Day Time	10.30	11.20	12-10	1.15	2.05	2.55	3.45	4.35
Mon						gr.		
Tue								
Wed			← T	5+'T6-				
Thu		PES H	+ TE	+76 -	>		. , 1	
Fri			e F	-	>			
Sat		-94 - 53 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	4	F5 -		-	Si	>

## **Academic Diary**

## PERSONAL INFORMATION

		그런 얼마를 보고 그렇게 하고 있었다. 그 그 그 날았다고 생기하고 있다면
1)	Name	: Dr. Harshal P. Mungse
2)	Qualification	: M.Sc., NET-JRF, Ph.D.
3)	Designation	: Assistant Professor
4)	Course	: BSC. chemistry
5)	Residensial	: Shravagi nagar near Amv
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12)	Bank Account No	
13)	Vehicle No	
14)	Driving Licence No.	
15)	Insurence Policy No.	
16)	Blood Group	- A + xx

Session: 2020 - 2021 Class: B.SC II Section: Sem. III Subject: Chemistry Paper/Unit: V&VI (Therm. & Electro.)

S.No.	Unit & Topic	Required	Dura	ation	Periods	· K
	[a] [a] [a] [b] [b] [b] [c] [c] [c] [c] [c] [c] [c] [c] [c] [c	Lectures		To	Periods Taken	Rema.
	Unit V – Part A (Thermodynamics): (i) Gibb's and Helmholtz's free energy function. Physical significance of Gibb's free energy, Variation of free energy G with P & T. Gibb's-Helmholtz's equation in terms of G and its application. (ii) Partial molal function, chemical potential, derivations of Gibb's-Duhem equation. Chemical potential of an ideal gas in gaseous mixture. Derivation of vant Hoff's isotherm and its application to equilibrium state. Derivation of vant Hoff's equation and its applications. (iii) Numericals.  Part B (Phase Equillibrium): (i) Immiscible liquids, Nerst distribution law and its application. Process of extraction, derivation of formula for the amount of solute left unextracted after nth extraction. (ii) Phase transition Clausius-Clyperon equation (only qualitative statement). (iii) Partially miscible liquids - Phase diagram of phenol-water, triethyl amine - water and nicotine-water systems. (iv) Numericals.	14L	29th July 2020		25L	
	Unit VI – Part A (Liquid State): (i) Surface tension, determination and its S.I. Unit. Effect of temperature on surface tension, derivation of expression for relative surface tension by Drop number method. Application of surface tension. (ii) Viscosity, determination and its S.I. Unit. Effect of temperature on viscosity, derivation of expression for relative viscosity by Ostwald's viscometer method. Applications of viscosity.  Part B (Electrochemistry): (i) Conductance of electrolyte solution. Specific, equivalent and molar conductance. Determination of conductance of electrolyte solution, variation of specific and equivalent conductance with dilution for strong electrolyte. Conductometric titrations. Applications of conductometric titration. (ii) Migration of ions under the influence of electric field. Transport number of ions. Determination of transport number by Hottorf's method and Moving boundary method (iii) Kohlrausch's law of independent migration of ions. Determination of 1 and degree of dissociation a of a weak electrolyte Determination of dissociation constant of weal		26H Nov. 2020	Was	<b>c</b> }	Unit

Session: 2020 - 2021 Class: B.Sc. The Section: Sem. V Subject: Chemistry Paper/Unit: I & The coordination

S.N	o. Unit & Topic	Required	Dur	ation	Periods	100
-		Lectures	From	To	Taken	Demar
	Unit I – Part A (Coordination compounds): addition compounds, double salts, complex salts, complex ion, ligand, coordination number, central metal ion, etc. Werner's theory, Sidgwick's electronic interpretation, EAN Rule. IUPAC rules for nomenclature of coordination compounds. Structural isomerism-ionization, linkage and coordination in complexes. Geometrical isomerism in oct.l comp., Squ. planar comp., Optical isomerism in octa. Compl. Tetra. Compl. square planar compl VBT, Inner and outer orbital compl Magnetic properties of compl. of 3d series elements. Limitations of VB theory.  Part B (Chelates): Definition, classification and applications of chelates in analytical chemistry. Stability of chelate with special reference to chelate effect.	142	29th 2020	2374 OCL. 2020		Unit
	Part A (CFT): Postulates of CFT, Crystal field splitting in octahedral, distorted octahedral, square planar, tetrahedral complexes. Concept of CFSE, high spin and low spin compl. on the basis of pairing energy and distribution of electrons in t2g and eg orbitals in high spin and low spin octa. Comp. Factor affecting magnitude of crystal field splitting in octa. complexes.  Part B (Electronic spectra of Transition metal complexes): Introduction to spectra, selection rules for d-d transitions, spectroscopic terms-determination of ground term symbols for d¹ spectra of octahedral complexes, Orgel diagram for d¹ and d⁰ states, electronic spectrum of [Ti(H2O)6]³+ complex ion. Spectrochemical series.	14L	28th OCt. 2020	14th mores 2021	29L	Unit Comple

Session: 2020-2021 Class: B.Sc. II Section: Sem. IV

Subject: chemistry Paper/Unit: T& TI

S.No.	Unit & Topic	Required	Dur	ation	Periods	24
v. 1		Lectures		To	Periods Taken	Remar
	Unit I – Part A (Chemistry of transition elements): Definition of transition elements. General characteristics of transition elements. Comparative study of first transition series					
	elements (3d) with reference to following properties: (i) Electronic configuration (ii) Atomic and ionic size (iii) Ionization energy (iv) Metallic nature (v) Oxidation states (vi) Magnetic properties (vii) Color of salts (viii) Catalytic properties (ix) Complex formation					
	behaviour. Study of 4d and 5d series elements- Electronic configuration. Comparison of 3d series elements with 4d and 5d series elements with respect to size, oxidation states, magnetic properties and color. Part B (Extraction of Elements): Principles	144	17th march 2021	13H may 2021	17L	Unit
	involved in extraction of elements. Major methods of extraction of elements. Factors affecting choice of extraction method. Thermodynamics of reduction processes-Ellingham diagrams for oxides and importance of this diagram (only preliminary ideas).					
	Unit II – Part A (Inner Transition Elements): Definition, Lanthanides and Actinides. Comparative study of Lanthanides with respect to following properties: (i) Electronic configuration (ii) Atomic and ionic radii, lanthanide contraction, definition, cause and					
	effect of lanthanide contraction (iii) Oxidation states (iv) Magnetic properties (v) Color of salts (vi) Complex formation behavior. Occurrence of lanthanides. Isolation of lanthanides by ion exchange method. Actinides - Electronic configuration and oxidation states. Comparison of lanthanides and actinides.	14 L	19 <sup>th</sup> may 2021	127 Aug. 2021	18L	UNIF COMPK
	Part B (General Principles of Metallurgy): Definition of metallurgy, steps in metallurgy. Ore dressing by gravity separation, froath floatation and electromagnetic separation. Calcination, roasting, smelting and refining of metals. Meaning of terms hydrometallurgy and pyrometallurgy.					

S.No. Unit & Topic	Require	d Du	ration	Periods	245	
5.140.	Lecture	From	To	Taken	Remark	
Unit III — Part A (Electronic Spectroscopy): Introduction, theory, instrumentation, types of electronic transitions, presentation of electronic spectrum, terms used-chromophore, auxochrome, bathochromic shift, hypsochromic effect, Applications in the structure determination of dienes, α, β unsaturated aldehydes and ketones, aromatic compounds.  Part B (Infrared Spectroscopy): Introduction, Types of molecular vibrations-stretching and bending, Calculation of vibrational modes, force constant, instrumentation, interpretation of IR, H-stretching, triple bond, double bond and Finger print regions, IR spectra of H <sub>2</sub> O, CO <sub>2</sub> , C <sub>2</sub> H <sub>3</sub> OH, CH <sub>3</sub> CHO, CH <sub>3</sub> COOH and CH <sub>3</sub> CONH.  Unit IV Part A (NMR Spectroscopy): Introduction, spin quantum number, instrumentation, Aspects of NMR- number of signals(equivalent and non-equivalent protons), positions of signals (chemical shift), intensities of signals, splitting of signals(spin-spin coupling), coupling constant, applications.  Part B (Mass Spectrometry): Introduction, theory, instrumentation-(ion sources), Mass spectra of neopentane and methanol, molecular ion peak, base peak, metastable peak, Rules of fragmentation,	144	17th march 2021	12th may 2021	16L	Unit	

## Personal Time Table(Theory)

Periods	N.	2 2	3	4	5	6	7	8	
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Theory - 04 periods

Personal Time Table(Practical)

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Time Day	11.20	12.10	1.15	2.05	5.22	3.45	4.35	5.25
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Tue		€ B.S	c-II (	()	B. S	··I (Fi	(Fs)	
Wed		a Cas	ar e		€ B.S	C-71 (S	(85)	
Thu		3. m			B.5	Sc. II (5	(55)	
Fri		729						
Sat					, and the second			

Practical - 18 periods

## **Academic Diary**





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16)	Blood Group	: B'+'ve

Session: 2020-21 Class : B.St. ] Section: Sem I

Subject: Electronics Paper /Unit: 15-Electronics

S.No.	Unit & Topic		Duration		Periods	marks	
		Lectures	From	То	Taken	Remarks	
	B.Sc. I Semester I (Electronics) 1S-Electronics Basics of Electronics  UNIT I: Passive Components and Network theorems:  Introduction to Resistors, Capacitors. Inductors and Transformers, Concept of ideal dc voltage and current source. KVL, KCL, Thevenin's, Norton's, maximum power transfer, Millman's theorem (statement, proof, simple numerical application for dc only).		10/09/2020			(omplete	
	UNIT II: Measuring Instruments:  Principles of voltmeter, ammeter, ohmmeter, Multirange DC voltmeter, ohm per volt rating, loading effect. Multirange DC Ammeter, Series & shunt type ohmmeter, Multimeter (uses & drawback). CRO Block diagram & explanation, CRT construction & working, uses of CRO (measurement of frequency, amplitude & phase.)	15	20/09/	30/13	19	(om ple	
	UNIT VI: Integrated Circuits:  Introduction to IC technology advantages and disadvantages Classification of ICs, Basic steps in fabrication of monolithic ICs, Fabrication of diode, resistor of transistor. Scale of integration up to V2LSI, Basic concept of Embedded systems.	09	2021	202		Comple	

Session: 2020-21 Class: B.St. II Section: Sem III

Subject: Electronics Paper/Unit: 35-Electronics.

S.No.	Unit & Topic	Required	Dura	tion	Periods	arks
		Lectures	From	То	Periods Taken	Rema
	B.Sc. II Semester III (Electronics) 3S-ELECTRONICS Electronic Devices and Circuits					
	UNIT I: Hybrid-parameters & Cascaded amplifiers:	62				
	Hybrid-parameters, transistor equivalent circuit of CE, CB, Analysis of small signal CE amplifiers. Concept of cascaded amplifier, Types of coupling, RC Coupled Amplifier, Single Tuned amplifiers.	15	28/07/2020	2020	16	Completed
	UNIT II: Power Amplifier:					
	Classification of power amplifier, Class A, Class B, Class C and Class AB amplifiers, Class A - transformer coupled amplifier, Class-B push-pull amplifier (Construction, working and efficiency of each). Distortion, complementary symmetry Class-B push-pull amplifier.	14	09/07/	20/09/	16	Completed
	UNIT III: Feedback amplifiers and Oscillators:					
	Concept of feedback, feedback theory, positive and negative feedback, advantage of negative feedback, physical idea of feedback (Block diagram only), concept of oscillator, basic elements of oscillator Barkhausen Criteria of oscillator concept of tank circuit. RC oscillator Phase shift and Wein bridge oscillator LC oscillator Colpitts and Hartley oscillator, Crystal oscillator.	15	21/10/2020	28/12/202	17	Complete

Session: 2020-21 Class: B.s. TIL Section: Sent

S.No.	Unit & Topic	Required	Dur	ation	Periods	arks
		Lectures	From	To	Taken	Remarks
	B.Sc. III Semester V (Electronics) 5S-ELECTRONICS Measuring Instruments					
	UNIT III: Timer and PLL:  IC 555 timer: Block diagram and function of each block, application of 555 timer as astable, bistable and monostablemultivibrator (construction, working and expression for time period). PLL Block diagram and function of each block, concept of capture range, pull in time, lock in range, electrical characteristics, applications of PLL as FM demodulator, AM detector and frequency synthesizer.	18	30/07/2020	12/09/	18	(omple
	UNIT V: Sensors and Actuators:  Sensors: Definition, Methods of fabrication of Sensors, Types of sensors (Mechanical, Thermal, Optical, magnetic, chemical). Actuators: Definition, Working principles of Electromechanical, Electro thermal, Electro-optical and Electrochemical Actuators.	13	22/09/ 2020	26/11/2020	16	Comple
	UNIT VI: Biomedical Electronics: Introduction, Type of electrode, EEG, EMG, ECG-block diagram and function of each block, X ray machine, instantaneous heart rate meter-systolic and diastolic blood pressure meter, EAR oximeter, pulse Oximeter, range gated pulse Doppler blood flow meter. Laser Doppler blood flow meter.	16	27/11/	23/01/	19	(omp)

Session: 2020-21 Class: B.Sc. III Section: Sem III

Subject: Electronics Paper/Unit: 45-Electronics.

S.No.	Unit & Topic	Required	Dura	ation	Periods	arks
		Lectures	From	To	Periods Taken	Rema
	UNIT IV: Architecture and timings of 8085:  Evolution of microprocessor, microcomputer (Block diagram with function of each block), architecture of Intel 8085 microprocessor, function of each block of 8085, Functional pin diagram and function of all pins of 8085, instruction format. Instruction cycle, fetch and execute operation, machine cycle and state, timing diagram of MOV and MVI instructions.	16	12/03/2021			Complete
	UNIT V: Instruction and programming of 8085:  Addressing mode, classification of instruction set of 8085 with examples, concept of stack and stack pointer, PUSH and POP instruction, Concept of subroutine: CALL and RET instruction, Delay subroutine (using one register and register pair). Programming: Algorithm, Flowchart, Assembly and machine language, assembly language program such as programme for addition, subtraction, multiplication, division, finding maximum and minimum numbers etc.  UNIT VI: Interfacing:	13	2021	07/06/2021	15	Completed
	Basic interfacing concept, memory mapped I/O and I/O mapped I/O Schemes, data transfer schemes. 8255 PPI: block diagram, function of each block, Functional pin diagram, function of each pin, operating modes of 8255 PPI, control word format in I/O and BSR mode, illustrative example.	12	28/06/	2021	13	Complete

Session: 2020-21 Class: B.Sc.Th Section: Sem II
Subject: Electronics Paper/Unit: 65-Electronics

S.No.	Unit & Topic	Required	Dur	ation	Periods	arks
		Lectures	From	To	Taken	Remarks
	B.Sc. III Semester VI (Electronics) 6S-ELECTRONICS Advance Microprocessor and Microcontroller					
	UNIT I: 8086 Architecture:					
	Block diagram of 8086 microprocessor. BIU and EU, operating modes of 8086, register of 8086-G.P.R, pointer and index register, segment register, concept of segmented memory, instruction pointer, status flag, pin diagram of 8086 microprocessor, physical and effective address.	13	2021	22/03/	13	(omplete
	UNIT II: Instructions and programming of 8086 Instructions:					
	MOV, PUSH, POP, LEA, LDS, LFS. Arithmetic & Logic Instructions. Addressing mode, 8086 instruction, Bus cycle, Programming: programs of data transfer, addition, subtraction, division, multiplication using various addressing mode.	12	23/03/ 2021	07/04/	12	(omplete
	UNIT III: 8051 Microcontroller Architecture:					
	Microcontroller Introduction, Difference between Microprocessor and Microcontroller, block diagram of microcontroller, CPU, registers, flags, PSW, PC, Data Pointer, SFR, SP, Internal RAM/ROM, External memory, I/O ports, counter & timers, interrupts.	11	08/04/2021	29/4/	11	Complete

Session: 2020 - 21 Class : B.Sc. TI Section: Sem Th

Subject: Flectronics Paper/Unit: 65-flectronics

S.No.	Unit & Topic	Required	Dura	ation	Periods	arks
		Lectures	From	То	Periods Taken	Rema
	B.Sc. III Semester VI (Electronics) 6S-ELECTRONICS Advance Microprocessor and Microcontroller					
	UNIT IV: Instruction set of 8051 and Programming:					
	Addressing mode, Instruction set: Data transfer, arithmetic, logical operation, JUMP, Loop and CALL instructions. Assembly language programming examples: simple data transfer, arithmetic, logical and single bit.	13	30/04/	2021	12	Complete
	UNIT V: 8051 Interfacing & Application:					
	Basics of serial communication, interfacing with RS-232C, SCON and PCON registers, interfacing a DAC / ADC and waveform generation, interfacing to the 8255, interfacing LED, power reduction mode.	13	17/05/	04/06/ 2021	13	Completed
	UNIT VI: Advance microcontroller:					
	Introduction to AVR, Arithmetic and logic Unit, program and data memories, downloadable flash program memory, SRAM data memory, general purpose register file, I/O register, EEPROM data memory, peripherals, Timers/ Counters.	12	2021	2021		Complete

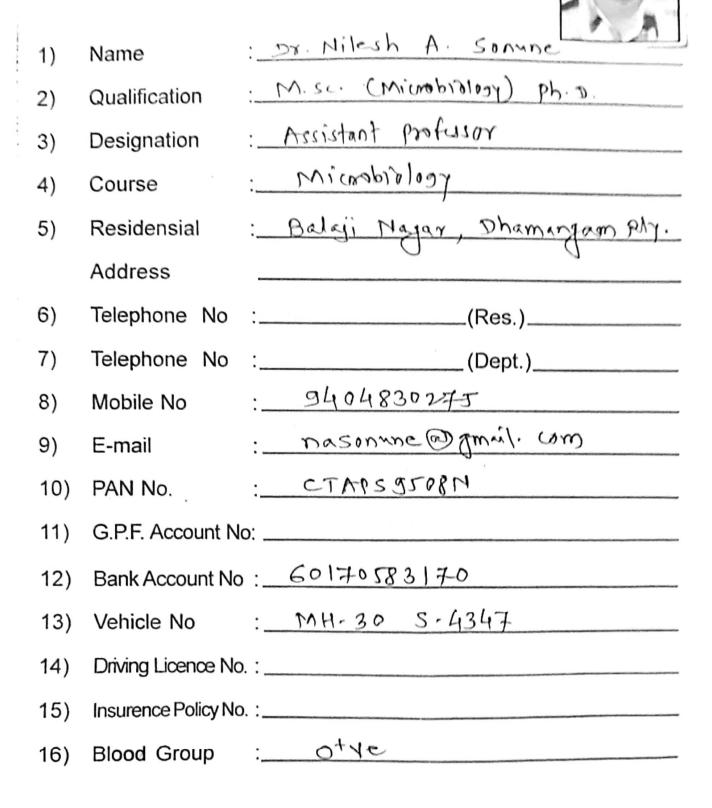
## Personal Time Table(Theory) w.c.t. 17/06/2020

Periods	1	2	3	4	-	T			
Day Time	9:40	10:30	11:20	14:10	5	6	7	8	9
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Sat				6	T			-	

Periods	A CONTRACTOR	ning	1		Evening				
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Day Time	10:30	11:20	12:10	1:15	2:05	2:55	-	8	
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Sat		-	-			4	-5	->	

#### **Academic Diary**

#### PERSONAL INFORMATION



Session: 2020-21 Class: B.S. I Section: Sem IFI
Subject: Microbiology Paper/Unit: 15- Microbiology

S.No.	Unit & Topic	P	Tealoidanim - 25
5.10	Sem-I	Required	Duration Periods 285
1	Unit-II	Lectures	From To Taken Remarks
1.	Structural organization of Barterial	14	14/09/ 14/10/ 15 Completed
2.	Unit I-A Microbial Nutrition Unit I-B	13	19/10/ 7/12/ 14 Completed
4.	pure culture concept	04	8/12/ 16/12/ 05 completed
4.	Reproduction and Gradth of Bacteria	14	24/124 22/04 17 Complete
	Semester-II		
1	Unit-II Microbial Control	)4	16/03/20104) 16 completed
2.	Unit-IL Biostatistics	13	03/05/29/06/16 completed
3.	Unit- II Entroduction to computer.	12_	30/06/04/08/15 completed

Session: 2020 - 21 Class : B. St. TI Section: Sen (1) Subject: Microbiology Paper/Unit: 35- Microbiology in

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S.No.		Required	Married Marrie	The second contract of the second	Periods	21/2
	Sem. III	Lectures	From	To	Taken	Remarks
1.				,		and the same of th
	Gene multiplication and expression	14	31/07	03/10	18	Complet
2.	Unit-II Gene: Regulation & Mutation.	15	3-1  0  50	04112	) 18	Completed
3.	11-11	V.	1 4 4			
9	Vosit-III Genetic Recombination	14	थ	26/02	120	completed.
	Semester II	and the second second second				
1.						
	Unit-III Serology	13	19/03/ 2021	30)04) 2021	17	completed
2.	Unit - I				1	'
_	Other pathogenic	74	03/07 2021	2021	18	completed
<b>ತ</b> ∙	Unit - II Antimicrobial Chemotheraphy	13	03107) 2021	07108 2021	16	completed
						V

Session: 2020-21 Class: B. W. III Section: Subject: Microbiology Paper/Unit: 55-Microbiology

Subject S.No.	Unit & Topic	P :			Nopp	1037
5.140.	Can a EP	Required		ation	Periods	2005
	UnitI	Lectures	From	To	Taken	Rema
1.						
	A. Microbial association	n 06	30/06/	20/08	)	
	B. Air Microbrology	10	2020		80	completed
	B. 4111	10	25/03)	[0][0]	13	completed
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	reolordanim. 1102	15	10/161	17/12/	19	completed
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3.	Unit-111					
	Weder Microbiology	13		27/02	15	completed
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	Semester II					
1.	UnitI					
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	Fermentation in	14	10000	201	20	Constaled
	General			,		
	11111					
5.			١		],	1
	Microballogy of	12	3010	25/06	16	Completed
	1 Food	,	2021	2021		
3	· Unit II-A					
	michelten Widowim	80	26/06	17/10	# 11	completed
4	1		2021	2021		
'	Unit II- B					
	Enzymology	03	20/0:	V	09	Cours of color
			nos	277		

## Personal Time Table(Theory)

Periods	1	2	3	4	5	6	7	8
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Personal Time Table(Practical)

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Fri			3	1		F6		
Sat						<b>K</b>	55+50	
						4	55+56	

## Department of Mathematics

# Academic Diary (Academic Year 20 -21)

Sr.No.	Content	Page No.
1.	Personal Information	2
2.	Annual Plan	3-5
3.	Personal Time Table	6
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5.	Results	52
6.	Extra Curricular Activities	53
7.	Leave record	55
8.	Salary Account	
9.	Miscellaneous work	56

## **Academic Diary**

#### PERSONAL INFORMATION

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Session: 2020-21 Class: BSCT Section: Subject: Mathematics Paper/Unit: I Algebra & Trignometry

S.No.	Unit & Topic	Required	Dur	ation	Periods Taken	nar!
		Lectures	From	То	Taken	Ker
v	Poots of Complex function circular function, hyperbolic function, inverse hyperbolic function, Rela beta, circular function of hyperbolic function of hyperbolic function of read & imaginer parts of circular & hyperbolic function of complex variable	12	17/91	17110	12	
2)	unit II: Trignometric Series Geogory series, Euler's series Machin's Series. Ruther from series, Summation of Series series based apon sinz, Gors sinhz, Gorhx, exponential series.	13	19/10	2/12	. 13	3
3)	unit II :- Elements of gualenter of equality de add no complex anjugate of qualenter norm inverse qualentien a notation operator seemetric interpretation, operator algorithm	110	3/12/20	231R 20	12	
4	Rela both moots & co-efficients formation of eqn., which eqn (cordon method), Distarts and of signs, biquadratice	12	24112	17101	12	
	s) unit V: - matrices: Rank or matrix, row rank, Glumn rank, eigenvalues, eigenvect the characteristics, eq. of matrix, calcy-Hamilton this	13	18/01	612	13	
	de its application.	3			The Such	BUILD .

Session: 2020-21 Class: BSCII Section: Subject: mathematics Paper/Unit: I-Number Theory

S.No.	Unit & Topic	Required	Dur	ation	Periods	7arks
0.1		Lectures	From	То	Periods Taken	Rem
9	unit I: Divisibily, division algorithm, the gretest common divisor, greater Common divisor of more than two integers, Euclidean algorithm	13	1117	\$18		
2)	least common multiple.  Unit II !- Prime nos; the  fundamental thm of cirthne  tic of unique foctorization  thm, fermal nos., linear  Diaphentine eq n	12	418124	23 [9]	10 12	
3)	properties of Congruence,  properties of Congruence,  special divisibility test,  linear congruence, chinue,  remainder tom.	12	2419)2	3 22/10/20	12-	
4)	funct?., Ewer's thm. the Tol or function, mobius us function	13	23/10	10/12	13	
5)	print V:- primitive mots, primitive roots for prime Potynomial congruences, The Congruence x=0 (mod p), feneral quadratic congruence, quadratic relidue.	. 12	11/12	2111	12	

Session: 2020-21 Class: BSCII Section: Subject: mathematics Paper/Unit: I mathematical method

S.No.	Unit & Topic	Required	Dur	ation	Periods Taken	BIK
		Lectures	From	To	Taken	Rem
0	Unit I :- legendres early legendre polynomial, generally function of for(x), recurrence formulae for for(x), orthogonality of lendre's poly-Rodrigue formula.	13	1317	318		
21	unit II: - Bessels equ, soll of Bessels equ, fenerating function for In(x), Recurrence formulae for In(x), stura Liouville boundary value pr	13	418 20	9 9	13	
2)	unit III: founer sene, founer sene for odd heren function, half-ronge fourier sine sene L half ronge founier cosine sene.	12	1019	19 110	12	
4)	unit IV: Laplace transformation , Laplace transformation of Some elementary function existence of Laplace transformation of Laplace transform of Laplace transform of derive & integral multiplication of the division by the	1. 20 11	20/10	11111	2 11	
5)	finite sine transform, inverse finite founer	e 11	12/11/20	1110		
	transform, Infinite fourier transform. proposition of fourier transform, application		4			

Session: 2020-21 Class : BSC I Section:

Subject: Mathematics Paper/Unit: I - vector malysts &

S.No.	Unit & Topic		Duration From To	Periods marks
9	Unit I! - scaler t vector  Product of three vector  Product of four vector  Vector differentiation f Integration.	) o	1   3   17   3   21   21	Taken Remarks
۹)	Unit II! Space Curve tin, b vectors, fundamental Planes, Curvature, torsion Fromet-Serret formular.	10	813 1914	10
	divergence, curl, directional democrative, line integral, work done, Garcens that.	11	1915 21 21	11
1	Unit IV: Sphere:  Different form of sphere, Section of sphere by a plan  sphere through a given  circle, intersectal of sphere & circle, orthogonal  sphere	10 20 2	15 116	0
Le	init V:- Cone: equ of one with gwiding come one with vertex dorigin ight circular cone frylinder - equ of Right circular cylinder	11 216 21	- <del>27</del> /6 11	

Session: 2020-21 Class: BSCII Section: Subject: Mathematics Paper/Unit: II- classical mechanic

S.No.	Unit & Topic	Required	Dur	ation	Periods	Remarks
		Lectures	From	To	Taken	Rem
0.	unit I! Constrainsts,  generalized Co-ordinate,  b'Alembertz principle,  & Lagrange equoconofin	10	813	514	10	
2)	motion, Areal velocity, equivalent one body problem Central orbit; Virial thm, kepler law of motion	09	614	27/4	09	
3)_	unit III: - Calculas of variation function al external ex	دله	2814	1515	10	
4)	unit W: Homilton Princip Logranges egn. for non holonomic system, Routh's procedure, least action principle	1000	1615	216	03	
5)	onit V: Rigid body  generalized Co-ordinate  of rigid body, Euderia  male, Euler Ham.	) 11	316	3016	11	

finite notations, infinitesimal Rotation

Session: 2020-21 Class : BSc III Section:

Subject: mathematics Paper/Unit: II - Special Relativis

	Unit & Topic	Required Lectures		-	Periods Taken	Remarks
y	unitz. Inertial frame, speed of light & Gallieran relationly, Relative character of space & fime, postulate of special theory of relation Lorentz transformation.	12	213	1013		
2)	Data II: Composition of Parallel velocities, Length Contraction, time dilation transformation ego of Component of velocity Lacrell Loventz Contraction factor.	10	1113	2213	10	
3)	Unit III: four dimensional minsknostian, space-time of relativity time. Like a space like interval, proper time of world line, past, tresent, future null clone ower product, quotient do	12 2	21	814	12	
4)	unit 10: Variation of mess velocity, eqn. of mass & energy, transformation eqn of mass, momentum & energy, Transformation of its component	10 9	14 2	26 14	10	
	Unit V:- Maxwell's eq! of electromagnetic theory in vacum, propagation of electric transpetic field scal eventur potential, loons from a Df electromagnetic four poten		71/5	1216	25	

## Personal Time Table(Theory)

Periods	1	2	3	4	5	6	7	8	2
Time	10:30	11-20	12-10	1:15	2.05	2.55	3.45	4.35	
Mon		II	I		I	п			
Tue		II				Ш		TIL	
Wed			III	I		п			
Thu	of an		III	I					
Fri	No. of		IL	1		Paris	エ	I	
Sat		III				1	I	I	

## Personal Time Table(Practical)

	Morr		Evening					
Periods	1	2	3	4	5	6	7	8
Time	NAME OF TAXABLE PARTY.		No.					
Mon	1343					100		
Tue								
Wed								
Thu								
Fri								
Sat	14.12							