Academic Year 2023-24

Mahatma Gandhi Vidyamandir's

M S G Arts, Science & Commerce College Malegaon Camp Dist. Nashik

Term: I **A.Y. 2023-2024** **Class: FY/ SY/TYBSc.** **Subject: Physics**

Sr. No	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	7.30 -10.30	----	----	SY(P) PHY-233 (CRY/ASG)	----	SY(P) PHY-233 (CRY/ASG)	SY(P) PHY-233 (CRY/ASG)
2	11.05- 11.55	TY PHY-352 (CRY) SY PHY-231 (ASG)	TY PHY-352 (CRY) SY PHY-231 (ASG)	TY PHY-352 (CRY) SY PHY-231 (ASG)	TY PHY-351 (KST) SY PHY-231(A) (CRY) SY PHY-231 (B) (ASM)	TY PHY-351 (KST) SY PHY-231(A) (CRY) SY PHY-231 (B) (ASM)	TY PHY-351 (KST) SY PHY-231(A) (CRY) SY PHY-231 (B) (ASM)
3	11.55- 12.45	TY PHY-356(B) (SSM)	TY PHY-356(B) (SSM)	TY PHY-353 (KST)	TY PHY-355 (SSM)	TY PHY-355 (SSM)	TY PHY-355 (SSM)
		FY-PHY 111 (ASM)	FY-PHY 111 (ASM)	FY-PHY 111 (ASM)	FY-PHY 112 (CRY)	FY-PHY 112 (CRY)	FY-PHY 112 (CRY)
4	12.45-1.35	TY PHY-353 (KST)	TY PHY-353 (KST)	TY PHY-356(B) (SSM)	TY PHY-354 (ASM)	TY PHY-354 (ASM)	TY PHY-354 (ASM)
	1.35-1.40						
5	1.40-2.30	TY 3511(K) (SUT/ASG)	TY 3511(K) (SUT/ASG)	TY 3511(K) (SUT/ASG)	TY 3510 (H) (HDS/CGD)	TY 3510 (H) (HDS/CGD)	TY 3510 (H) (HDS/CGD)
6	2.30 -5.30	FY(P) PHY-113 (CRY/ASM)	FY(P) PHY-113 (CRY/ASM)	FY(P) PHY-113 (CRY/CGD)	TY(P)3B 358 (SSM/SUT)	TY(P) 3A 357 (KST/ HDS)	TY(P) 3A 357 (KST/HDS)
		Project 359 TYBSc	Project 359 TYBSc	TY(P) 3B 358 (SSM/SUT)	Project 359 TYBSc	Project 359 TYBSc	Project 359 TYBSc

FY (PHY-111) (ASM)
FY (PHY-112) (CRY)
FY (PHY-113) (CRY/ASM/CGD)

SY(PHY-231(ASG)
SY(PHY-232)(CRY/ASM)
SY(PHY-233) (CRY/ASG)

TY PHY-351 (KST)
TY PHY-352 (CRY)
TY PHY-353 (KST)
TY PHY-3511(K) (SUT/ASG)
TY(P-357) (KST/HDS)

TY PHY-354 (ASM)
TY PHY-355 (SSM)
TY PHY-356 (B) (SSM)
TY PHY-3510(H) (HDS/CGD)
TY(P-358) (SSM/ SUT)

w.e.f. 17.07.2023

M.S.G. Arts, Sci & Com. College Malegaon Camp
DEPT OF PHYSICS

(Dr. A S Garde)
HEAD
Dept. of Physics
M.S.G. College, Malegaon Camp

Mahatma Gandhi Vidyamandir's

M S G College Malegaon Camp Dist. Nashik

Term: I

Class: M.Sc. I

Subject: Physics

M.Sc. I (SEM: I)

Sr. No	Time	Mon	Tue	Wed	Thu	Fri	Sat
1	10.10-11.10	PHY512MJ SUT	PHY512MJ SUT	PHY512MJ SUT	PHY502MJ ASG	PHY502MJ ASG	PHY502MJ ASG
2	11.10-12.10	PHY503MJ HDS	PHY503MJ HDS	PHY503MJ HDS	PHY501MJ SSM	PHY501MJ SSM	PHY501MJ SSM
3	12.10 -1.10	PHY502MJ ASG	PHY501MJ SSM	PHY504MJ CRY	PHY503MJ HDS	PHY541MN ASG	PHY512MJ SUT
	1.00- 01.10	**Short Recess**					
4	1.10-2.10	PHY504MJ CRY	PHY504MJ CRY	PHY504MJ CRY	PHY541MN ASG	PHY541MNP ASG	PHY541MNP ASG
5	2.10- 5.10	PHY505MJP SUT &SSM	PHY505MJP SUT &SSM	--	---		

Mathematical Methods for Physics: PHY501MJ (SSM)
Classical Physics: PHY503MJ (HDS)
Space Weather & Technology: PHY512MJ (SUT)
Research Methodology: PHY541MN & PHY541MNP (ASG)
w.e.f. 21.08. 2023

Statistical Physics: PHY502MJ (ASG)
Quantum Physics: PHY504MJ (CRY)
Basic Physics Laboratory-I: PHY505MJP (SSM/SUT)

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M S G College Malegaon Camp Dist. Nashik

Term: I **Class: M.Sc. II** **Subject: Physics**

M.Sc. II (SEM: III)

Sr. No	Time	Mon	Tue	Wed	Thu	Fri	Sat
1	10.00-11.00	--	--	----	PHCT231 (ASG/ SSM)	PHCT231 (ASG/SSM)	PHCT231 (ASG/SSM)
2	11.00-12.00	PHCT 233 (SUT)	PHCT 233 (SUT)	PHCT232 (KST)	PHOT 234M4 (HDS)	PHOT 234M4 (HDS)	PHOT 234M4 (HDS)
3	12.00 -1.00	PHCT231 (ASG/SSM)	PHOT 234 M4 (HDS)	PHCT 233 (SUT)	PHCT232 (KST)	PHCT232 (KST)	PHCT232 (KST)
4	1.00-2.00	PHCT 233 (SUT)	--	---	--	--	---
5	1.00-4.00	--	--	---	PHCP 235 (SSM/SUT)	PHCP 235 (SSM/SUT)	---

Statistical Mechanics: PHCT231 (ASG/SSM)
Solid State Physics: PHCT232 (KST)
Experimental Techniques in Physics-I: PHCT 233 (SUT)

Material Science I: PHOT 234M4 (HDS)
Physics LAB III: PHCP 235 (SSM/SUT)

w.e.f. 17.07. 2023

M.S.G. Arts, Commerce & Science College, Malegaon Camp. DEPT OF PHYSICS

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Malegaon-Camp Dist. Nashik

Teaching Plan **Academic Year 2023-2024**

Name of the Teacher		**Mr. C.R.Yewale**	Class: F.Y.B.Sc. Sem: I
Paper: II		**Physics Principles and Applications**	Subject Code - PHY-112
Month	Topic No.	Topics & Sub-topics	
June July August September October November	1 1,2 3,4 5	Lectures: 36 (Credits-02) **1. Physics of Atoms (08-Lectures)** 1.1 Introduction to Atom, 1.2 Atomic Models: 1.2.1 Thomson's Atomic Model, 1.2.2 Rutherford's Atomic Model 1.2.3 Bohr's Atomic Model, 1.3 Atomic Spectra:1.3.1 Emission line Spectrum, 1.3.2 Absorption line spectrum, 1.3.3 Uses of Atomic Spectra 1.4 Classical planetary model of Hydrogen Atom, 1.5 The Bohr Theory of the Hydrogen Atom, 1.6 The Hydrogen Spectrum, 1.7 Frank-Hertz experiment, Problems **2. LASERS and Its Applications (07-Lectures)** 2.1 Introduction to LASERS, 2.2 Basic Principle of Lasers: Three Processes, 2.3 Characteristics of Lasers: brief explanation, 2.4 Boltzmann Distribution Law, 2.5 Population Inversion and Pumping, 2.6 Types of Lasers:2.5.1 He-Ne Laser, 2.5.2 Ruby Laser, 2.7 Applications of Lasers Problems **3. Physics of Molecules (08-Lectures)** 3.1 Introduction to Bonding Mechanisms, 3.2 Forces between Atoms 3.3 Types of Bonding:3.3.1 Ionic Bonds, 3.3.2 Covalent Bonds 3.3.3 van der Waal's Bonds, 3.3.4 Hydrogen Bond, 3.3.5 Metallic Bond 3.4 Rotation energy levels of a diatomic molecule, 3.5 Vibration energy levels of a diatomic molecule, Problems **4. Sources of Electromagnetic Waves (06-Lectures)** 4.1 Introduction to Electromagnetic Waves: Historical Perspective 4.2 General properties of Electromagnetic radiations 4.3 Electromagnetic spectrums and its sources 4.4 Production of electromagnetic waves: Hertz experiment 4.5 Plank's hypothesis of Photons 4.6 Applications of various waves in electromagnetic spectrum **5. Applications of Electromagnetic Waves (07-Lectures)** 5.1 Microwave oven, 5.2 RADAR, 5.3 Pyroelectric thermometer 5.4 X-ray radiography, 5.5 CT scan, 5.6 Solar cell and its types, Problems	

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Academic Calendar

First Term -20 /06/ 2023 to 31/10/ 2023 **Second Term - 22/11/2023 to 30/04/2024**

All faculties of the Department are informed to carry out activities as per the academic calendar

Academic Year 2023-2024

Month	Activity and Tentative Dates
June 2023	Preparation and Planning of Admission process of current academic year
	Meeting of the faculty members
	Preparation of course and Work load Distribution
	As per budget , Preparation of departmental Requirement
	Principal meeting with Teaching staff & Administrative staff of Department
	Preparation and display Academic time table (UG)
	21 st June "Yoga Din"
	To continue Research Activity
July 2023	Preparation and Planning of Admission process of PG (M Sc)
	Declaration of Under Graduate Results
	As per time table , Starting of Regular lectures and Practical
	Loknete Vyankatrao Hiray Smruti Din
	Meeting of the faculty members
	Preparation of E content Material
	Tree Plantation Programme
	Visit to College Library for addition of Books and Journals
	Purchase committee meeting
	To continue Research Activity
	To prepare and maintain Departmental Files for NAAC
August 2023	Annasaheb Sathe Jaynti & Lokmanya Tilak Punytithi
	Kranti Din : 9th August
	Lecture on Movement of Library Science :12th August
	To organize the lecture on Solar Energy /Material Science
	To Motivate the students for Science Project
	15th August:- Independence Day
	Field Visit
	To continue Best Practices
	Academic & Administrative Audit (Internal)
September 2023	To continue Best Practices
	To continue Research Activity
	Teacher Day: 5th September
	Planning of Internal Examination for B.Sc Students
	To Prepare Science Project for Avishkar Project Competition
	As per time table , Overview of Teaching and Learning
	To arrange Internal Examination and Seminars for the students

October 2023	2nd October: Mahatma Gandhi Jaynti, Anniversary of M G Vidyamandir
	To organize of Blood Donation Camp
	Meeting of the faculty members
	Semester wise Examination (UG & PG)
	Preparation and maintain records for NAAC Peer Team
	To continue Research Activity
November 2023	Diwali Vacation **(01/11/2023- 21./11/2023)**
	Karmaveer Bhausaheb Hiray Smruti Din: 6th November
	Assessment of Answer sheet of UG Classes
	Organization of various lectures and events for Science
	To continue Research Activity
	To continue Best Practices
	Second Term **22/11/2023 to 30/04/2024**
December 2023	Lecture on Health care: World AIDS Day
	Organization of Demonstration Activity
	Visit to MOU/ Field Visit
	Organize Seminar/ Conference and Lecture Series on Nanomaterials
	To continue Best Practices
	To continue Research Activity
	Smt. Renukabai Bhausaheb Hiray Jaynti: 30th December
January 2024	Savitribai Phule Birth Anniversary
	To Discuss on Feedback of Students regarding Teaching and facilities.
	Preparation of course and Work load Distribution
	As per time table , Starting of Regular lectures and Practical
	12th January National Youth Day
	26th January: Republic day
	Organization of Poster competition
	Annual Social Gathering and Prize Distribution
February 2024	Preparation of records for NAAC
	Meeting of Faculty members.
	Meeting of Parents, Teacher & students.
	10th February- University Foundation Day.
	Smt. Renukabai Bhausaheb Hiray Punyatithi.
	National Science Day
	Examination Committee Meeting & Arrange Internal Examination : B.Sc
March 2024	Karmaveer Bhausaheb Hiray Jayanti: 1st March
	Review of syllabus completion
	To start Certificate Course of Effective Learning of ICT Tools.
	World Women's Day -8th March.
	Assignment, Project & oral examination of PG students
	Certification of TYBSc Practical Journals & Project report
	Analysis of feedback from Parents/ stakeholders
	Review of Teaching Learning Evaluation

April 2024	University Examination B.A./B.Com./B.Sc.
	Dead Stock verification of various departments.
	Academic & Administrative Audits (AAA)
	14th April :-Dr. Babasaheb R. Ambedkar Jayanti
	Loknete Vyankatrao Hiray Jayanti
	CAP University and college Exams.
	Meeting of Faculty Members
May 2024	1st May, 2022 Maharashtra Din. Flag hoisting.
	2nd May - Summer Vacation begins.

In addition to this Academic activity would be incorporated as per as the need and situational demands.

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M.S.G. ARTS, SCIENCE & COMMERCE COLLEGE, MALEGAON CAMP

TEACHING PLAN 2023-24

Name: Dr. C. S. Aher

Department: Chemistry

Class: F. Y. B. Sc. **Term: I**

Paper- F.Y.B.Sc.CH- 101: Physical Chemistry & CH-103: practical,
T.Y. B. Sc. CH-507 Organic Chemistry-I

Sem: I

Sr. No	Month	Periods	Topics to be taught
1	Aug. Sept. Oct. Nov.	11 11 14	**Theory Paper: CH- 101: Physical Chemistry (2 Credits)** **1. Chemical Energetics** : Review of thermodynamics and the Laws of Thermodynamics. Important principles and definitions of thermochemistry. Concept of standard state and standard enthalpies of formations. integral and differential enthalpies of solution and dilution. Calculation of bond energy. bond dissociation energy and resonance energy from thermochemical data. Variation of enthalpy of a reaction with temperature – Kirchhoff's equation. Statement of Third Law of thermodynamics and calculation of absolute entropies of substances. problems **2. Chemical Equilibrium:** Introduction: Free Energy and equilibrium - Concept. Definition and significance The reaction Gibbs Energy. Exergonic and endergonic reaction. The perfect gas equilibrium. the general case of equilibrium. the relation between equilibrium constants. Molecular interpretation of equilibrium constant. The response of equilibria to conditions- response to pressure . response to temperature. Van't Haff equation. Value of K at different temperature. Problems **3. Ionic Equilibria:** Strong. moderate and weak electrolytes. degree of ionization. factors affecting degree of ionization. ionization constant and ionic product of water. Ionization of weak acids and bases. pH scale. common ion effect. Salt hydrolysis- calculation of hydrolysis constant. degree of hydrolysis and *pH* for different salts. Buffer solutions. Solubility and solubility product of sparingly soluble salts– applications of solubility product principle.

2	Sept. Oct. Nov. Dec.	 2 3 5	**Practical Paper: CH- 103: Chemistry Practical (1.5 Credits)** **Section A**:Chemical and Lab Safety (Compulsory) **Section B**: Physical Chemistry a. Thermochemistry (Any three) **Section C**: Organic Chemistry(Five experiments) Evaluation of practical paper
3			**T.Y. B. Sc. CH-507 Organic Chemistry-I**
	Sept.	8	**1. Polynuclear and Heteronuclear Aromatic Compounds** Introduction. Classification of aromatic compounds. Properties of the following compounds with reference to electrophilic and nucleophilic substitution: Naphthalene. Anthracene. Furan. Pyrrole. Thiophene. and Pyridine.
	Oct.	5	**2. Active Methylene Compounds** Definition. Preparation of Ethylacetoacetate and Synthetic uses of ethylacetoacetate Preparation of Diethyl malonate and Synthetic uses of diethyl malonate. (preparation of non-heteromolecules having upto 6 carbon).
	Nov.	12	**3. Rearrangement Reactions** Introduction. Types of rearrangement. Types of reactive intermediate involved in different rearrangements. Rearrangement – Beckmann. Baeyer-Villiger. Favorskii. Curtius. Lossen. Schmidt and Pinacol-Pinacolone with mechanism. Electrocyclic Rearrangements- Claisen. Cope and Mc-Lafferty rearrangements with mechanism
	Dec.	11	**4. Elimination reactions** Introduction; Types of eliminations-1.1: 1.2 elimination. Mechanism with evidences of E1and E2. E1cB reactions. stereochemistry of E1 and E2 elimination, Orientations and reactivity in E1 and E2 elimination- Hoffmann and Saytzeff's orientation. Factors affecting the reactivity- effect of structure. attacking base and leaving groups

Signature of Teacher

Mahatma Gandhi Vidyamandir's

M. S.G. Arts, Science and Commerce College, Malegaon-Camp, Dist. Nashik.

MasterTime –Table Chemistry Department Year 2023– 2024

PG Master Time-Table 2023-24

Period	Time	Class	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	10 – 1 pm (Practical)	M.Sc.I(Phy Pra)	KTP	KTP	KTP	KTP	KTP	KTP
		M.Sc.I(Org. Pra)	SSP/TSS	SSP/TSS	SSP/TSS	TSS/SSP	TSS/SSP	TSS/SSP
		M.Sc.I(Ino. Pra)	NJM	NJM	NJM	NJM	GVS	GVS
2	11-12 pm	M.Sc. II (Physical)	VSA(CHP312)	VSA(CHP312)	VSA(CHP312)	VSA(CHP312)	NST(313A)	NST(313A)
3	12- 1 pm		PSP(CHP310)	PSP(CHP310)	NST(313A)	NST(313A)	PSP(CHP310)	PSP(CHP310)
4	1-2 pm		**NST/VSA/PSP (CHP311)**	**NST/VSA/PSP (CHP311)**	**NST/VSA/PSP (CHP311)**	**NST/VSA/PSP (CHP311)**	Seminar/ Tutorial	Seminar/ Tutorial
2	1.30-2.30 pm	M.Sc. II (Organic)	BBW (CHO-353)	BBW (CHO-353)	AUN (CHO-351)	AUN (CHO-351)	GBY (CHO-350)	SKS (CHO-352)
3	2.30-3.30 pm		SKS (CHO-352)	SKS (CHO-352)	SKS (CHO-352)	NJM (CHO-351)	GVS (CHO-350)	Seminar/ Tutorial
4	3.30-4.30 pm		NAD (CHO-353)	NAD (CHO-353)	GVS (CHO-350)	GBY (CHO-350)	NJM (CHO-351)	Seminar/ Tutorial
5	1.30 – 2.30 pm	M.Sc. I (Physical & Organic)	**CHE-502 NBS**	**CHE-502 NBS**	**CHE-501 KTP**	**CHE-501 KTP**	**CHE-503/ CHEPIA-507 SSP**	**CHE-503/ CHEPIA-507 SSP**
6	2.30 – 3.30 pm		**CHE-501 KTP**	**CHE-501 KTP**	**CHE-503 SSP**	**CHE-502 SSP**	**CHE-502/ CHEOD-507 NJM/KTP**	**CHE-502/ CHEOD-507 NJM/KTP**
7	3.30 – 4.30 pm		**Seminar/ Tutorial**	**RM SSP**	**RM NBS**	**Seminar/ Tutorial**	**RM NBW**	**RM RSN**

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Department of Chemistry

Time Table for M.Sc.-I (Physical/Organic Chemistry) 2023-24 (Semester-I)

W.E.F. / /2023

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.30pm- 2.30 pm	CHE-502-NBS (B-25)	CHE-502-NBS (B-25)	CHE-501-KTP (B-25)	CHE-501-KTP (B-25)	CHE-503/CHEPIA-507-SSP (B-25)	CHE-503/CHEPIA-507-SSP (B-25)
2.30 pm -3.30 pm	CHE-501-KTP (B-25)	CHE-501-KTP (B-25)	CHE-503-SSP (B-25)	CHE-503-SSP (B-25)	CHE-502/CHEOD-507-NJM/KTP (B-25)	CHE-502/CHEOD-507-NJM/KTP (B-25)
3.30 pm -4.30 pm	Seminar/Tutorial	RM-SSP (B-25)	RM-NBS (B-25)	Seminar/Tutorial	RM-NBW (B-25)	RM-RSN (B-25)

KTP=Mr. K.T. Padhyar, NJM= Mr. N.J. Mali, SSP= Dr. S.S. Pathade, NBS=Dr. N. B. Shirsath

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Department of Chemistry

M.Sc.-I (Physical/Organic Chemistry) Practical Time Table 2023-24 (Semester-I)

W.E.F. / /2023 **Time : 10.00 am to 1.30 pm**

Subject	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Physical	KTP	KTP	KTP	KTP	KTP	KTP
Inorganic	NJM	NJM	NJM	NJM	GVS	GVS
Organic	SSP/TSS	SSP/TSS	SSP/TSS	TSS/SSP	TSS/SSP	TSS/SSP

Physical- Mr. K.T. Padhyar (CHE-504)

Inorganic- Mr. N.J. Mali (CHE-505)

Organic- Dr. T.S. Savale & Dr. S.S. Pathade (CHE-506)

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Practical Time Table M.Sc.-II Physical Chemistry 2023-24(Semester-I)

W.E.F. / /2023 **Time: 2.00pm to onwards**

Subject	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
CHP-314 PRACTICAL	PSP & NST	PSP & NST	PSP & NST	PSP & NST	-	-

PSP=Dr. P. S. Pawar, VSA= Mr. N. S. Thakare

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Time Table for M.Sc.-II Physical Chemistry 2023-24 (Semester-I)

W.E.F. 01 / 08 /2023

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11 am -12 pm	CHP-312 VSA	CHP-312 VSA	CHP-312 VSA	CHP-312 VSA	CHP-313(A) NST	CHP-313(A) NST
12pm -01 pm	CHP-310 PSP	CHP-310 PSP	CHP-313(A) NST	CHP-313(A) NST	CHP-310 PSP	CHP-310 PSP
1.00 pm -2.00pm	CHP-311 NST/VSA/PSP	CHP-311 NST/VSA/PSP	CHP-311 NST/VSA/PSP	CHP-311 NST/VSA/PSP	Seminar/tutorial	Seminar/tutorial

PSP=Dr. P. S. Pawar, VSA= Mr. V. S. Aaynor, NST= Mr. N. S. Thakare

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Department of Chemistry

Time Table for M.Sc.-II Organic Chemistry 2023-24(Semester-I)

W.E.F. 01/08 /2023

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.30pm -2.30 pm	CHO353-BBW (B-26)	CHO353-BBW (B-26)	CHP-351-AUN (B-26)	CHP-351-AUN (B-26)	CHO350-GBY (B-26)	CHP352-SKS (B-26)
2.30pm -3.30 pm	CHP352-SKS (B-26)	CHP352-SKS (B-26)	CHP352-SKS (B-26)	CHO351-NJM (B-26)	CHO350-GVS (B-26)	Seminar/Tutorial
3.30 pm -4.30pm	CHO353-NAD (B-26)	CHO353-NAD (B-26)	CHO350-GVS (B-26)	CHO350-GBY (B-26)	CHO351-NJM (B-26)	Seminar/Tutorial

BBW=Miss. B. B. Waghmare, AUN= Mr. A. U. Nerkar, GBY= Mr. G. B. Yalmame, SKS= Mr. S. K. Shinde,
NJM= Mr. N. J. Mali, GVS= Mr. N. J. Mali, NAD= Dr. N. A. Dokhe

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Department of Chemistry

Practical Time Table M.Sc.-II Organic Chemistry 2023-24 (Semester-I)

W.E.F. / /2023 **Time : 10 am to Onwards**

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
CHO-354 PRACTICAL	SKS/SAA	SKS/SAA	SKS/SAA	SKS/SAA	-	-

SKS= Mr. S. K. Shinde

SAA= Mr. S. A. Ahire

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Department of Chemistry

Academic Calendar 2023-24

Month	Activity
July-2023	• Admission process for F.Y.B.Sc.
	• Merit form submission for M.Sc-I Physical and Organic Chemistry admission
August-2023	• Merit list preparation and conduct the counselling for M.Sc-I Physical and Organic Chemistry admission.
	• Admission process for S.Y./T.Y.B.Sc. and M.Sc.
	• To organize the induction programme for the F.Y.B.Sc students
	• To conduct regular lectures and practical's of F.Y.B.Sc
September-2023	• To conduct regular lectures and practical's of F.Y./S.Y.B.Sc classes
	• To conduct regular lectures and practical's of M.Sc-I & M.Sc-II classes
	• To organized the Career Guidance seminar for UG and PG students
	• To organize the Welcome function for M.Sc-I Physical and Organic Chemistry students.
	• To organize the guest lectures for the M.Sc students
October-2023	• To conduct regular lectures and practical's UG and PG classes
	• To celebrate Reading Day on occasion of birth anniversary of former president Dr. APJ Abdul Kalam.
	• To organize the industrial visit for UG and PG students

	• To organize One day workshop on 'Competitive Examination Guidance' for UG and PG students in collaboration with IQAC.
	• To conduct the first term internal examinations for UG classes
	• To conduct regular lectures and practical's of PG classes
	• To evaluate the answer papers of the first term internal examinations of UG classes.
November-2023	• To organize One day workshop on 'Uses of Chemistry in Everyday Life' for students in collaboration with IQAC.
	• To conduct the first term internal examinations for PG classes
	• To evaluate the answer papers of the first term internal examinations of PG classes.
	• To conduct regular lectures and practical's of Term-II for UG and PG classes
	• To organized the Guest lecture series for PG Students.
December-2023	• To organize the industrial visit for UG & PG students
	• To guide and motivate the students for participation in AVISHKAR research computation.
	• To conduct regular lectures and practical's UG and PG classes
	• To organized the national / international conference .
January-2024	• To conduct intercollegiate CHEMIAID -2024 computation
	• To evaluate answer paper of intercollegiate CHEMIAID -2024 computation
	• To conduct regular lectures and practical's UG and PG classes
February-2024	• To conduct the Quiz round of intercollegiate CHEMIAID -2024 computation and organize prize distribution.
	• To organize the one day International workshop on 'Career Opportunities in Abroad'

	• To organize the Poster presentation competition for UG and PG students on the occasion of National Science Day on 28 February.
March-2024	• To conduct regular lectures and practical's of Term-II for UG and PG classes
	• To conduct the second term internal examinations for UG classes
	• To conduct the second term university practical examinations for UG classes.
	• To evaluate the answer papers of the second term internal examinations of UG classes.
	• To organize one day workshop on Intellectual Property Rights
April-2024	• To conduct regular lectures and practical's of PG classes
	• To conduct the second term internal examinations for PG classes
	• To evaluate the answer papers of the second term internal examinations of PG classes.
	• To conduct the second term university practical examinations for PG classes
May- 2024	• To fill the online Internal marks of UG and PG students.
	• To conduct the University theory examination of UG and PG classes

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M.S.G. Arts, Science & Commerce College, Malegaon – Camp

Department of Statistics

Teaching Plan Year 2023 – 24

Name of Teacher:- Ansari S.I.

ss: F.Y. B. Sc. **Sem – I**

le : Descriptive Statistics – I (ST -111)

Month	Unit & Topics	No. of lectures
July	**Unit 1. Introduction to Statistics(2L)2H** **1.1**Meaning of Statistics as a Science. 1.2Importance of Statistics. **1.3**Scope of Statistics: In the field of Industry, Biological sciences, Medical sciences, Economics, Social Sciences, Management sciences, Agriculture, Insurance, Information technology, Education and Psychology. **1.4**Statistical organizations in India and their functions: CSO, ISI, NSSO,IIPS (Devnar, Mumbai), Bureau of Economics and statistics. **1.5** Statistical Heritage (Indian Perspective: i)Dr. V. S. Huzurbazar, Dr. P.C. Mahalanobis, Dr. P. V. Sukhatme, Dr. C. R. Rao).	(2L)2H
	Unit 2. Population and Sample (4L)**3H** 2.1Types of characteristics: Attributes: Nominal scale, ordinal scale, Variables: Interval scale, ratio scale, discrete and continuous variables, difference between linear scale and circular scale 2.2Types of data: (a) Primary data, Secondary data (b) Cross-sectional data, time series data, directional data. 2.3 Notion of a statistical population: Finite population, infinite population, homogeneous population and heterogeneous population. Notion of a sample and a random sample Methods of sampling (Description only): Simple random sampling with and without replacement (SRSWR and SRSWOR) stratified random sampling, systematic sampling, cluster sampling and two-stage sampling.	(4L)3H
ugust	**Unit 3. Summary Statistics:** (14 L) **12H** **3.1** Review/Revision of Presentation of Data. Interpretation of Data from table and graph. Data validation **3.2** Frequency Classification: Raw data and its classification, ungrouped frequency distribution, Sturges' rule, grouped frequency distribution, cumulative frequency distribution, inclusive and exclusive methods of classification, Open end classes, and Relative frequency distribution. **3.3Measures of Central Tendency:** Concept of central tendency of statistical data, Statistical averages, characteristics of a good statistical average. Arithmetic Mean (A.M.): Definition, effect of change of origin and scale, combined mean of a number of groups, merits and demerits, trimmed arithmetic mean. Mode and Median: Definition, formulae (for ungrouped and grouped	(14L) 12H

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		distribution of i) $1X$ ii) X_2 where $X \sim C(0,1)$ iii) $aX+b$ 3.4 Additive property for two independent Cauchy variates (statement only), statement of distribution of the sample mean, comment on limiting distribution of X . 3.5 Relationship with uniform, Student's-t and normal distributions. 3.6 Applications of $C(\mu,\lambda)$	(4 L)
1.	December	**4. Chebychev's Inequality. (4L)** 4.1 Chebychev's theorem: If g (x) is a non – negative function of r.v. X such that $E[g(X)]<\infty$ then, $P[g(X)\geq k]\leq\{E[g(X)]/k\}$ where k is positive real number. 4.2 Chebychev's inequality for discrete and continuous distributions (with proof) in the forms $[\|X-\mu\|\geq k]\leq\{\sigma 2k2/\}$, where $k>1$, $P[\|X-\mu\|\geq k\sigma]\leq\{1k2/\}$, $k>1$. Where $\mu=(X)$ and $\sigma 2=(X)<\infty$. 4.3 Applications of Chebychev's inequality in control charts, statistical inference.	(8 L)
		5. Central Limit Theorem and Weak Law of Large Numbers (8L) 5.1 Sequence of r.v.s. , convergence of sequence of r.v. in a) probability b) distribution, with simple illustrations. 5.2 De Moivre - Laplace theorem (Binomial distribution tends to Normal distribution for large n), Statement and proof of the central limit theorem for i.i.d. r.v.s. (proof based on MGF), simulation-based demonstrations. 5.3 Weak law of large numbers (WLLN), Simulation-based demonstrations 5.4 Applications of CLT and WLLN.	

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Department of Statistics

Teaching Plan Year 2023 – 24

Class: S.Y. B. Sc. Name of Teacher :- Ansari S.I.

Title : Discrete Probability Distributions And Time Series (ST - 231) **Sem – I**

	Month	Unit & Topics	No. of lectures
1.	August	**1. Negative Binomial Distribution: (07 L)** Probability mass function (p.m.f.) $P(x) = \binom{x+k-1}{x} p^k q^x$; $x = 0, 1, 2, \ldots\ldots, k > 0, p + q = 1$ Notation: $X \sim NB(k, p)$ Graphical nature of p.m.f., negative binomial distribution as a waiting time distribution, moment generating function (MGF), cumulant generating function (CGF), mean, variance, skewness, kurtosis (recurrence relation between moments is not expected), additive property of NB (k, p). Relation between geometric distribution and negative binomial distribution. Poisson approximation to negative binomial distribution. Real life situations.	(07 L)
	September	**2. Multinomial Distribution: (10 L)** Probability mass function (p.m.f.) Σ Joint MGF of ( ), use of MGF to obtain means, variances, covariances, total correlation coefficients, variance – covariance matrix, rank of variance – covariance matrix and its interpretation, additive property of multinomial distribution, univariate marginal distribution, distribution of , conditional distribution of given conditional distribution of given real life situations and applications.	(10 L)
	October	**3. Truncated Distributions: (05L)** Concept of truncated distribution, truncation to the right, left and on both sides. Binomial distribution left truncated at (value zero is discarded), its p.m.f., mean and variance. Poisson distribution left truncated at (value zero is discarded), its p.m.f., mean and variance. Real life situations and applications.	(05 L)
	November	**4 Time Series: (14L)** **4.1** Meaning and utility of time series, components of time series: trend, seasonal variations, cyclical variations, irregular (error) fluctuations or noise. **4.2** Exploratory data analysis: Time series plot to (i) check any trend and seasonality in the time series (ii) identify the nature of trend . **4.3** Methods of trend estimation and smoothing: (i) moving average, (ii) linear, parabolic, exponential, Parato curve fitting by least squares principle (iii) exponential smoothing. **4.4** Choosing parameters for smoothing and forecasting. **4.5** Forecasting based on exponential smoothing. **4.6** Measurement of seasonal variations: i) simple average method, ii) ratio to moving average method, iii) ratio to trend where linear trend is calculated by method of least squares.(Numerical examples with heavy computations are to be asked preferably in practicals). **4.7** Fitting of autoregressive model where **4.8** Case studies of real life Time Series: Price index series, share price index series, economic time series: temperature and rainfall time series, wind speed	(14 L)

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		data), merits and demerits. Empirical relation between mean, median and mode. Partition Values: Quartiles, Deciles and Percentiles (for ungrouped and grouped data), Box Plot. Geometric Mean (G.M.): Definition, formula, merits and demerits. Harmonic Mean (H.M.): Definition. Formula, merits and demerits. Order relation between arithmetic mean, geometric mean, harmonic mean Weighted Mean: weighted A.M., G.M. and H.M. Situations where one kind of average is preferable to others. 3.4 Measures of Dispersion: Concept of dispersion, characteristics of good measure of dispersion. Range, Semi-interquartile range (Quartile deviation): Definition, merits and demerits, Mean deviation: Definition, merits and demerits, minimality property (without proof), Variance and standard deviation: Definition, merits and demerits, effect of change of origin and scale, combined variance for n groups (derivation for two groups). Mean squared deviation: Definition, minimality property of mean squared deviation (with proof), Measures of dispersion for comparison: coefficient of range, coefficient of quartile deviation and coefficient of mean deviation, coefficient of variation(C.V.)	
.	September	**Unit -4 - Moments, Skewness and Kurtosis:(8 L)7H** **4.1** Raw moments (m'_r) for ungrouped and grouped data. Central moments (m_r) for ungrouped and grouped data, Effect of change of origin and scale. Relations between central moments and raw moments, up-to 4-th order (without proof). **4.2** Concept of skewness of frequency distribution, positive skewness, negative skewness, symmetric frequency distribution. Bowley's coefficient of skewness: Bowley's coefficient of skewness lies between −1 to 1 (with proof), interpretation using Box plot. Karl Pearson's coefficient of skewness. Measures of skewness based on moments ($\beta_{1}',_{1}$).	(8L) 7H
.	October	**4.3**Concepts of kurtosis, leptokurtic, mesokurtic and platykurtic frequency distributions. Measures of kurtosis based on moments ($\beta_{2}',_{2}$). **5 Theory of Attributes:** (8 L) **6H** 5.1 Attributes: Concept of a Likert scale, classification, notion of manifold classification, dichotomy, class- frequency, order of a class, positive class- frequency, negative class frequency, ultimate class frequency, relationship among different class frequencies (up to three attributes), and dot operator to find the relation between frequencies, fundamental set of class frequencies. 5.2 Consistency of data up to 2attributes. **5.3** Concepts of independence and association of two attributes. Yule's coefficient of association (Q), $-1 \leq Q \leq 1$, interpretation.	(8L) 6H

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MAHATMA GANDHI VIDYAMANDIR'S
M.S.G. Arts, Science & Commerce College, Malegaon- Camp
Department of Statistics
TEACHING PLAN (*Academic Year 2023 – 24*)

Name of Teacher: Ansari S. I. **Class: T.Y.B.Sc.**

Title : ST 351: Distribution Theory **Sem : V**

Sr. No	Month	Topics and subject	No. of Periods
1.	September	**1. Beta Distributions (8L)** 1.1 Beta distributions of first kind : p.d.f. $f(x)=1/B(m,n)x^{m-1}(1-x)^{n-1}$; $0 \le x \le 1, m,n>0$ $= 0$; elsewhere Notation :$X \sim \beta_1(m,n)$, Nature of probability curve, symmetry, mean, variance, properties, r^{th} raw moment, harmonic mean, median for $\beta_1(m,m)$. 1.2 Relation with U(0,1). The probability distributions of $\lvert X \rvert$ $X+Y, -Y, XY, \frac{X}{Y}$ where X and Y are i.i.d. $\beta_1(1,1)$. 1.3 Beta distributions of second kind p.d.f. $f(x)=1/B(m,n)x^{m+1}(1+x)^{m+n}$; $x \ge 0, m,n>0$ $= 0$; elsewhere Notation :$X \sim \beta_2(m,n)$, Nature of probability curve, symmetry, mean, variance, properties, r^{th} raw moment, harmonic mean, median for $\beta_2(m,m)$. 1.4 Interrelation between $\beta_1(m,)$ and $\beta_2(m,n)$. 1.5 Distribution of , $XX+Y$ etc. when X and Y are independent gamma variates. 1.6 Relation between distribution functions of $\beta_1(m,)$ and binomial distribution. 1.7 Real life situations and applications.	(8L.)
2.	October	**2. Order Statistics (10L)** 2.1 Order statistics for a random sample of size n from a continuous distribution, definition, derivation of distribution function and density function of the i-th order statistic $X_{(i)}$, particular cases for $i=1$ and $i=n$. Distribution of (i) from random sample following uniform and exponential distributions. 2.2 Derivation of joint p.d.f. of $((i),(j))$, probability distribution of sample range $X_{(n)}-X_{(1)}$. 2.3 Distribution of sample median 2.4 $Corr(X_{(i)},X_{(j)})$ when $X_1, X_2, \ldots X_n$ are i.i.d. uniform r.v.s ,distribution of $X_{(n)}-X_{(1)}$ and sample median. Comment on unbiased estimator of θ for $(0,)$ and exponential (θ) based on order statistics. 2.5 Joint distribution of $(1),(2),\ldots X_{(n)}$	(10L)
3.	November	**3. Cauchy distribution (6L)** 3.1 p.d.f. $f(x)=\lambda/\pi[\lambda^2+(x-\mu)^2]$; $-\infty<X<\infty$; $-\infty<\mu<\infty$; $\lambda>0$ $=0$; elsewhere 3.2 Nature of the probability curve. 3.3 Distribution function, quartiles, non – existence of moments,	(6L)

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		distribution of i) $1X$/ ii) X_2 where $X \sim C(0,1)$ iii) $aX+b$ 3.4 Additive property for two independent Cauchy variates (statement only). statement of distribution of the sample mean, comment on limiting distribution of X . 3.5 Relationship with uniform, Student's-t and normal distributions. 3.6 Applications of $C(\mu,\lambda)$	(4 L
4.	December	**4. Chebychev's Inequality. (4L)** 4.1 Chebychev's theorem: If g (x) is a non – negative function of r.v. X such that $E[g(X)]<\infty$ then, $P[g(X)\geq k]\leq\{E[g(X)]/k\}$ where k is positive real number. 4.2 Chebychev's inequality for discrete and continuous distributions (with proof) in the forms $[\|X-\mu\|\geq k]\leq\{\sigma 2k2/\}$, where $k>1$, $P[\|X-\mu\|\geq k\sigma]\leq\{1k2/\}$, $k>1$. Where $\mu=(X)$ and $\sigma 2=(X)<\infty$. 4.3 Applications of Chebychev's inequality in control charts, statistical inference. **5. Central Limit Theorem and Weak Law of Large Numbers (8L)** 5.1 Sequence of r.v.s. , convergence of sequence of r.v. in a) probability b) distribution, with simple illustrations. 5.2 De Moivre - Laplace theorem (Binomial distribution tends to Normal distribution for large n), Statement and proof of the central limit theorem for i.i.d. r.v.s. (proof based on MGF), simulation-based demonstrations. 5.3 Weak law of large numbers (WLLN), Simulation-based demonstrations 5.4 Applications of CLT and WLLN.	(8 L

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Dept. of Statistics
Academic Calendar 2023-24

Date : 20/06/2023

Sr. No.	Month	Activity / Topic	Status
1.	20th June	• Admission process FYBSC • Participation in webinars • Exam duties for CAP • Internal marks filling	
2.	July	• Regular lecture started of FYBSC • Preparation for NAAC files • Result analysis of FYBSC • Departmental meeting	
3.	August	• Regular Teaching started of SYBSC • Admission process SYBSC/TYBSC • Result analysis of SY/TYBSC 2022 – 23 • Preparation of practical batches • To organize induction program for FYBSC • To prepare PPT of Dept for the NAAC	
4.	September October	• Regular teaching , learning activities TYBSC • Use of MS-Excel and R software • Departmental meeting • Lectures using ICT tools • To conduct Remedial classes for Backlog students	
5.	November	• Projects allotment of TYBSC • Information about projects TYBSC • Use of MS-Excel and R software	
6.	December	• Internal Examination • To organize field /Industrial visit of TYBSC • Scientific survey of TYBSC • Departmental meeting	
7.	January 2023	• University examination Sem – I • Review of projects & survey	
8	February	• Carry out practical as per the batches • Use of MS-Excel and R software, Python • To organize Stat Quiz under MOU(Linkage)	
9.	March	• Regular teaching , Learning activities • Compilation of projects of TYBSC • Use of MS-Excel and R software • Guidance on Data Analytics	
10.	April/May	• Regular teaching , learning activities • Practical Examinations • Project verification • Internal Exam of Sem – II	

Note: use of ICT tools as and when required.

[Mr.. Ansari S. I.]

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M. S. G. Arts, Science & Commerce College, Malegaon Camp

Department of Statistics

TIME – TABLE (Sem – I & II)

Class:- F.Y / S.Y. B.Sc./ T.Y.B. Sc. **Year- 2023 – 24**

Class	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
S.Y.B.Sc. Practical	7.30 To 10.00	--	Practical – (SIA)	--	--	Practical (SIA)	--
F.Y. B. Sc.	10. 15 T0 11.05	Paper – I (SIA)	Paper – I (SIA)	Paper – I (SIA)	Paper – II (SIA)	Paper – II (SIA)	Paper – II (SIA)
T.Y.B. Sc.	11.10 To 12. 00	Paper – VI (HSC)	Paper – VI (HSC)	Paper – VI (HSC)	Paper – V (HSC)	Paper – V (HSC)	Paper – V (HSC)
T.Y.B.Sc.	12.00 To 1.00	Paper – I (SIA)	Paper – I (SIA)	Paper – I (SIA)	Paper – II (SIA)	Paper – II (SIA)	Paper – II (SIA)
T.Y.B. Sc.	1. 00 To 2.00	Paper – III(SRA)	Paper – III(SRA)	Paper – III(SRA)	Paper – VII (SIA / SRA)	Paper – VII (SIA / SRA)	Paper – VII (SIA/SRA)
T.Y.B. Sc.	2.00 To 3.00	Paper – IV (SRA)	Paper – IV (SRA)	Paper – IV (SRA)	Paper – VIII (SIA / HSC)	Paper – VIII (SIA/HSC)	Paper – VIII (SIA / HSC)
S. Y. B. Sc	2.30 To 3.20	Paper – I (SIA)	Paper – I (SIA)	Paper – I (SIA)	Paper – II (SIA)	Paper – II (SIA)	Paper – II(SIA)
F.Y.B. Sc. Practical	2.30 To 5.00	Batch I & II (SIA)	--	--	--	Batch III & IV (SIA)	--
T.Y.B.Sc. Practical	2.30 To 5.00	--	--	--	PRACTICAL –I (SIA / SRA)	PRACTICAL –II (SIA / SRA)	PRACTICAL-III (SIA/HSC)

1) **SIA** - Mr. Ansari S.I **(Statistics)**
2) **HSC** – Miss Harshada Chaudhary
3) **SRA – Miss Shivani Ahire**

(Ansari S. I)
Head
Dept.of Statistics
M.S.G.College,Malegaon Camp(Nasik)

Dr. C. G.Dighavkar

Time-Table Term: I Year: 2023-2024 UG

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
PRACTICALS 7.30 – 10.30am	S. Y. KTP/AKS Zoo. Lab.I F.Y-/ RBG/JNB Zoo. Lab II	S. Y AKS/KTP Zoo. Lab.I	S. Y. KTP/AKS Zoo. Lab.I	S. Y. AKS -/RSK Zoo. Lab.I	S. Y. RSK Zoo. Lab.I	S. Y./ RSK Zoo. Lab.I
11.05- 11.55	S. Y . Animal Diversity-KTP T.Y.ZO-351 Pest Management- D.S.Magar (17)	S. Y. Animal Diversity- KTP T.Y.ZO-351 Pest Management- D.S.Magar (17)	S. Y. Animal Diversity- KTP T.Y.ZO-351 Pest Management- D.S.Magar (17)	S. Y. Applied Zoology- RSK T.Y ZO-354 Genetics S.D.Patil (17)	SY-Applied Zoology- RSK T.Y. ZO-354 Genetics J.N.Deore (17)	SY-Applied Zoology- RSK T.Y. ZO-354 Genetics S.D.Patil (17)
11.55- 12.45	F.Y. (A) Ecology -SDP F.Y. (B) Ecology - RBG T.Y ZO-353 Biological Chemistry P.M.Pawar (17)	F.Y. (A) Ecology SDP F.Y. (B) Ecology - RBG T.Y ZO-353 Biological Chemistry P.M.Pawar (17)	F.Y. (A) Ecology SDP F.Y. (B) Ecology - RBG T.Y. Aquarium Managemnt MMK (17)	F.Y. (A) Animal Diversity VDP F.Y. (B) Animal Diversity AKS T.Y.- ZO-3511 Poultary Management P.D.Gaikwad (17)	F.Y. (A) Animal Diversity VDP F.Y. (B) Animal Diversity AKS T.Y.- ZO-3511 Poultary Management P.D.Gaikwad (17)	F.Y. (A) Animal Diversity VDP F.Y. (B) Animal Diversity AKS T.Y.- ZO-3511 Poultary Management P.D.Gaikwad (17)
12.45- 01.35	T.Y. ZO-355 Developmental Biology Mr. H. K. Pawar (17)	T.Y. ZO-355 Developmental Biology Mr. H. K. Pawar (17)	T.Y. ZO-355 Developmental Biology Mr. H. K. Pawar (17)	TY ZO-3510 Aquarium Managemnt D.S.Magar (17)	TY ZO-3510 Aquarium Managemnt D.S.Magar (17)	T.Y. ZO-356 Parasitology R.B.Gaikwad (17)
01.40- 02.30	T.Y. ZO-356 Parasitology R.B.Gaikwad (17)	ZO-3510 Aquarium Managemnt D.S.Magar (17)	T.Y. ZO-356 Parasitology R. B.Gaikwad (17)	T.Y. ZO-352 Histology Dr.V.D.Pawar (17)	T.Y. ZO-352 Histology Dr.V.D.Pawar (17)	T.Y. ZO-352 Histology Dr.V.D.Pawar (17)
PRACTICALS 2.30- onwards	F.Y.- S.D.P./V.D.P Zoo. Lab I	F.Y.- S.D.P./V.D.P Zoo. Lab I	F.Y.- / S.D.P/DSM. Zoo. Lab I	F.Y.- S.D.P./DSM Zoo. Lab I T.Y.-.K.T.P Lab II	F.Y.- / P.M.P/P.D.G Zoo. Lab I T.Y.- S.D.P/AKS - Lab II	F.Y.- P.M.P/P.D.G Zoo. Lab I TY-/S.D.P./A.K.S

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Mahatma Gandhi Vidyamandir's

M.S.G. Arts, Science and Commerce College ,
Malegaon Camp, Dist. Nashik

Department of Zoology

Academic Calendar 2023-24

Month	Activities
JUNE	➢ 20th June -Institution Flag Hosting ➢ Opening meeting with Principal ➢ Departmental meeting with Faculty for preparation of Time-table, Distribution workload ➢ Celebration of Yoga Day ➢ International Day Against Drugs Abuse & Illicit Trafficking
JULY	➢ Department meeting with faculty ➢ Admission Process F.Y./ S.Y./T.Y. B.Sc. classes ➢ Preparation of Teaching Plan ➢ Death Anniversary of Loknete Vyankatraoji Hiray ➢ Welcome function for F.Y. B .Sc. students by S.Y. & T.Y. B. Sc. Students ➢ Counselling for admission of M.Sc.-I ➢ Planning for 14 July th Health check up Camp & Lecture on Hb. ➢ Preparation of Teaching plans. ➢ Preparation of Departmental Annual Report for College Magazine 2022-23 ➢ Planning for Certificate Course ➢ Preparing B. Sc. Final Exam Result ➢ HoDs meeting with Principal and weekly report writing and submission ➢ 06 July – World Zoonosis Day ➢ 11 July- World Population Day ➢ 28 July – World Hepatitis Day ➢ 29 July – International Tiger Day
AUGUST	➢ Department meeting with faculty ➢ Planning for Parents and Alumni Meeting ➢ 14 th August- Organ donation Day Celebration ➢ 15th August - Celebration of Independence Day ➢ Guest Lecture for Career Guidance for students ➢ Organisation of Snake Awareness Programme and Zoo Quiz ➢ Preparation of E- Content
SEPTEMBER	➢ Department meeting with faculty ➢ 01st September – National Nutrition Day ➢ 5th September -Birth Anniversary of Dr. Radhakrishnan /Teachers Day Celebration

	➢ 21st September-World Alzheimer's Day ➢ 26th September- World Environmental Health Day ➢ Preparation of Internal Exams ➢ Planning for Various Field Visit ➢ Planning For Guest Lecture
OCTOBER	➢ Department meeting with faculty ➢ 2 to 8 October World Wildlife Week Celebration ➢ 12th October- World Arthritis Day ➢ Organisation of Research Methodology Lecture Series ➢ Syllabus completion report submission ➢ Journal certification and Paper Assessment ➢ Faculty meeting regarding University Exam
NOVEMBER	➢ Department meeting with faculty ➢ Reopening of Second Term - Institution Flag Hosting ➢ Death anniversary of Karmaveer Bhausaheb Hiray ➢ Preparation of Time Table ➢ Distribution work load & Planning ➢ Planning for online / Offline Teaching ➢ Analysis of Result ➢ Planning for Online / Offline Departmental Activities ➢ 07th November – World Cancer Awareness Day ➢ 12th November – World Pneumonia Day ➢ 21th November - Celebration of World Fisheries Day
DECEMBER	➢ Department meeting with faculty ➢ Guidance for Avishkar Competition ➢ 01st December- World's AIDS Day ➢ 29th December- International Biodiversity Day ➢ Organization of Conference / Seminar / Workshop ➢ Study Tour and Visit to Apiculture/ Sericulture Centre /Aquarium ➢ Guest Lecture on Vermicomposting Technology
JANUARY	➢ Department meeting with faculty ➢ Guidance for Student for Filling up Exam Form for March/ April exams ➢ Organization of Guest lecture ➢ 26th January- Celebration of Republic Day ➢ Celebration of Youth Day ➢ 24th January – National Girl Child Day ➢ Organise Field Visit , Pathology Lab ,Forensic Lab ➢ Cultural activities / social gathering ➢ Organise Unit test for all courses
FEBRUARY	➢ Department meeting with faculty ➢ 04 th February- World Cancer Day ➢ 10th February- SPPU foundation Day ➢ 28 th Feb- National Science Day

	➢ Maharaja Sayajirao Gaikwad Punyatithi ➢ Chhatrapati Shivaji Maharaj Jayanti ➢ Smt. Renuka Aaji Hiray Death Anniversary ➢ Preparation of Practical Examination ➢ Organise Zoo-Festival programme : – Rangoli of Animals, Science Exhibition, Poster competition, Quiz, Photography etc. ➢ Planning for International /National Webinar ➢ Department Meeting and Dept. weekly report submission
MARCH	➢ Department meeting with faculty ➢ Birth Anniversary of Karmaveer Bhausaheb Hiray ➢ Maharaja Sayajirao Gaikwad Jayanti ➢ Home Assignments /Projects/ Animal Survey to all Classes. ➢ 01st March – World Wild Day ➢ 10th March – No Smoking Day ➢ 20 th March - Sparrow Day Celebration ➢ Preparation / Conduction Practical Examination of B.Sc. ➢ Planning for INNOFEST ➢ Send- off function of T.Y.B.Sc. students ➢ Preparation of practical examinations. ➢ Submission of syllabus completion report.
APRIL	➢ Department meeting with faculty ➢ 14th April – Celebration of Birth Anniversary of Bharat Ratna Dr. Babasaheb Ambekar ➢ Birth Anniversary of Loknete Vyankatraoji Hiray ➢ 03 rd April - Celebration of Aquatic Animal Day ➢ Assessment work ➢ 25th April - Awareness of Malaria ➢ Preparation of chemical list, Apparatus, Glass wares, Book list to be ordered in next year ➢ Submission of dead stock checking report
MAY	01st May- Flag Hosting - Kamgar Divas/Maharashtra Din.

Note : Subject to the changes declared by Savitribai Phule Pune University, Pune

Place – Malegaon

(Dr. S.D. Patil)

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