

Teacher's Personal Profile

Photo

1. Full Name : Kumbhar Digvijay Sheipati.
2. Department : Zoology
3. Designation : Assit. Professor
4. Qualification : M.Sc. SET.
5. Date of Birth : 10th June 1984
6. Date of Appointment : 1st feb. 2013
7. Phone No. : _____
8. Mobile No. : 9673403980
9. Blood Group : 'O' Rh Positive
10. PAN No. : BUJPK 7294L
11. AADHAR No. : 4417 7784 1802
12. Driving License No. : _____
13. Email. ID : vdigvi84@gmail.com
14. Rayat Bank Membership No. : _____
15. Savings A/C. No. : 5918(Rayat) / 68013757201 (BOM)
16. Address - Residential : Belekar colony, Karjat. Tal. Karjat.
Dist. Ahmednagar - 414402

Permanent : At. Kumbharwadi (Kelashi BKII), Po. Dhaman,
Tal. Radhanagari, Dist. Kolhapur - 416211.

Time Table

Lect.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	11:02-11:50	—	—	—	—	—	—
2	11:50-12:38	—	—	—	—	—	—
3	12:38-1:26	T.Y.B.Sc.	T.Y.B.Sc.	—	12:38-1:	—	—
4	1:26-2:14	—	—	—	—	—	T.Y.B.Sc.
5	02:00-2:50	F.Y.B.Sc.	F.Y.B.Sc.	F.Y.B.Sc.	F.Y.B.Sc.	F.Y.B.Sc.	F.Y.B.Sc.
6	• P	R A C T I C A L S .					
7	10:30 to 12:30	—	—	F.Y.B.Sc.	—	F.Y.B.Sc.	—
8	09:00 to 12:00	—	T.Y.B.Sc.	—	—	—	—

First Term

Friday Date 15/06/2018 to

Saturday Date 03/11/2018



Teacher's Sign.

Head

Dept. of Zoology

Sorathia

Head

Zoology

Time Table

Lect.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	11:02 - 11:50	—	—	—	—	—	—
2	11:50 - 12:38	—	—	—	—	—	—
3	12:38 - 01:26	T.Y.B.Sc.	T.Y.B.Sc.	—	T.Y.B.Sc.	—	T.Y.B.Sc.
4	1:26 - 02:14	—	—	—	—	—	—
5	02:00 - 02:50	F.Y.B.Sc(Atc)	F.Y.B.Sc(Atc)	F.Y.B.Sc(Atc)	F.Y.B.Sc(Btg)	F.Y.B.Sc(Btg)	F.Y.B.Sc(Btg)
6	—	—	PRACTICALS				
7	09:30 onwards	—	T.Y.B.Sc.	—	—	—	—
8	10:30 onwards	—	—	F.Y.B.Sc.	—	F.Y.B.Sc.	—

Second Term

Thursday Date 29 / 11 / 2018 to
Tuesday Date 30 / 04 / 2019


 Teacher's Sign.


 Head
 Department of Zoology
 Dada Patil Mahavidyalaya, Karjat

Teaching Plan for 2018-2019 First / Second Semester

Name of the Lecturer Kumbhar Digvijay Shripati.

Subject Zoology Paper: II Class: F.Y.B.Sc.
(Fundamentals of Cell Biology)

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
July 2018	19	1) Introduction to cell Biology	- Definition of cell - Cell Theory - Branches/scope - stains: Definition & Types.	06 + 06 } 12	Home Assignment No. ①
		2) Study of Prokaryotic & Eukaryotic cells.	- Definition, figures - Difference between Prokaryotic & Eukaryotic cells. * cellular & molecular differences - Diff. between plant cell & Animal cell	03 + 03 } 06	
August 2018	23	3) Structure & function of cell membrane	- Definition - chemical composition - Fluid mosaic model - functions of plasma membrane	06 + 06 } 12	Home Assignment No. ②
		4) Composition of Cytoplasm	- Definition - Composition: • Cytoplasmic matrix • Cytoplasmic inclusions • Cytoplasmic organelles • Cytoskeleton	02 + 02 } 04	

P. Ravi
Head,
Department of Zoology

Kumbhar
Signature of Lecturer

Teaching Plan for 2018-2019 First / Second Semester

Name of the Lecturer Kumbhar Digvijay Shripati.

Subject Zoology Paper: II Class: F.Y.B.Sc.
(Fundamentals of Cell Biology)

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
August 2018		5) Study of cell organelles with respect to structure & functions.	i) Endoplasmic Reticulum ii) Golgi Complex	03 + 03 = 06	④ + ③
Sept. 2018	22	5) study of cell organelle with respect to structure & functions	iii) Mitochondria iv) Lysosome v) Ribosome vi) Peroxisome vii) Glyoxysomes	10 + 10 = 20	open Book Test Home Assignment No. ③ Internal Examination
Oct. 2018		6) Nucleus	- structure of Nucleus - functions of Nucleus		Home Assignment No. ⑤
		7) cell cycle & cell Division	- cell cycle - Mitosis - Meiosis		

S. P. Patil
Head,

Department of Zoology

Kumbhar

Signature of Lecturer

Teaching Plan for 2018-2019 First / Second Semester

Name of the Lecturer Kumbhar Digvijay Shripati.

Subject Zoology

Paper : I

Class : T.Y.B.Sc.

(Animal Systematics & Diversity II)

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
July 2018	08	Study of <u>Pila globosa</u> (Type study)	- Systematic position, Habit, Habitat & external characters - Body wall & Pallial complex - Functional Anatomy : Digestive, Respiratory, Circulatory, Excretory, Reproductive, Nervous system & Sense organs.	10	Home Assignment No ①
August 2018	16	Study of following groups with reference to-	- Protozoa : Locomotion & Nutrition - Porifera : skeleton & canal system - Coelenterata : Polymorphism & corals - Hemichordata : Affinities	08	
		Study of <u>Calotes versicolor</u> (Type study)	- Systematic position - Habit, Habitat - External characters - Functional Anatomy : Digestive, Circulatory, Excretory, Reproductive system. (male)	14 (08)	Practice Question Paper ①

D. P. Kumbhar
Head,

Department of Zoology

D. P. Kumbhar

Signature of Lecturer

Teaching Plan for 2018-2019 First / Second Semester

Name of the Lecturer Kumbhar Digvijay Shripati.

Subject Zoology Paper : I Class : T.Y.B.Sc.
(Animal Systematics & Diversity V)

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc
Sept. 2018 (contd.)	16	study of <u>calotes</u> <u>versicolor</u> (Type study) (contd....)	— contd. female Reprod. system, Nervous system, Sense organs.	(05)	②
		Comparative Anatomy	— Integument — Heart — Kidney — Brain (scoliodon, frog, Calotes, Pigeon & Rat)	09	Surprise Test Home Assignment
October 2018		study of following topics with reference to....	— Pisces - Dipnoi, Accessory resp. organs, Electric organs — Reptilia - Temporal vacuities, Rhyncocephalia — Mammalia - Dentition.	06	Model Question Papers 1, 2, 3

S. R. Patil

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Department of Zoology

Digvijay

Signature of Lecturer

Teaching Plan for 2018 -2019 First / Second Semester

Name of the Lecturer Kumbhar Digvijay Shripati

Subject Zoology Paper : II (Genetics) Class : F.Y.B.Sc.

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
December 2018	21 (7 ICT lectures)	1) Introduction to Genetics	- Definition, - Mendelian Patterns of Inheritance - Test cross & Back cross	06	Advanced Learners Class Test ① Conducted for Home Ass. ① Given to slow learners
		2) Interaction of Genes	- Definition - Co-dominance & Incomplete Dominance - Supplementary factors (9:3:4) - Complementary factors (9:7) - Inhibitory factors (13:3) - Duplicate factors (15:1)	06	
		3) Lethal Genes in <u>Mus musculus</u>	Lethal Genes in <u>Mus musculus</u>	03	
		4) Multiple Alleles	- Definition - characteristics/Importance of multiple Alleles - Examples - A-B-O Blood group system. - Rh factor incompatibility - Inheritance of Blood groups - medico-legal imp. - Polygenic Inheritance	06	

Head, Rajiv
Department of Zoology

Kumbhar
Signature of Lecturer

Teaching Plan for 2018-2019 First / Second Semester

Name of the Lecturer Kumbhar Digvijay Shripati

Subject Zoology Paper: V (General Embryology) Class: T.Y.B.Sc.

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
Dec. 2018	17	Introduction	Defination & scope Theories of Dev. Biology	01	
	(08 ICT Lectures)	Concepts in Dev. Biology	Growth, Differentiation, cell determination, cell communin, morphogenesis, Induction	02	
		Gametogenesis	spermatogenesis Oogenesis Oocyte maturation oovum - General structure Egg membrane Types of Eggs.	08	
		Fertilization	concept & types Attraction of Gametes Sperm Penetration Activation of oovum Amphimixis Significance of fertilization	07	
Jan. 2019	14	cleavage	Mechanism, Patterns & Types Significance	02	①
	(03 ICT Lectures)	Blastula	Defination & Types	02	① Unit Test Home Test

Head,

Digvijay Shripati
Zoology

[Signature]

Signature of Lecturer

Syllabus Completion Report- Term I

Mr. Kumbhar Digvijay Shripati
Asst. Prof., Department of Zoology
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

To,
The Principal,
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

Subject : Syllabus Completion Report

Respected Sir,

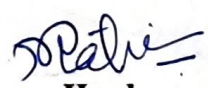
With reference to above mentioned subject, I am herewith submitting the report of completion of the syllabus in the academic year 2018 -2019 .

I have completed the syllabus of the following papers.

Sr.No.	Class	Subject / Paper	Date of Completion	Remarks
1.	F.Y.B.Sc.	II - fundamentals of cell Bio	25/10/2018	Completed
2.	T.Y.B.Sc.	I - Animal syst. & Div. V	01/10/2018	Completed
3.				
4.	F.Y.B.Sc.	Practicals based on P-I & II	26/10/2018	Completed
5.	T.Y.B.Sc.	Practicals based on P-I	24/09/2018	Completed
6.				
7.				
8.				

Thank You,


Signature of
Teacher


Head
Depart. of Zoology

Principal
Dada Patil Mahavidyalaya, Karjat

Syllabus Completion Report- Term II

Mr. Kumbhar Digvijay Shripati
Asst. Prof., Department of Zoology
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

To,
The Principal,
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

Subject : Syllabus Completion Report

Respected Sir,

With reference to above mentioned subject, I am herewith submitting the report of completion of the syllabus in the academic year 2018 -2019.

I have completed the syllabus of the following papers.

Sr.No.	Class	Subject / Paper	Date of Completion	Remarks
1.	F.Y.B.Sc.	II - Genetics	14/02/2019	Completed
2.	T.Y.B.Sc.	V - General Embryology	09/02/2019	Completed
3.				
4.	F.Y.B.Sc.	Practical based on Genetics	30/01/2019	Completed
5.	T.Y.B.Sc.	Practicals on Embryology	22/01/2019	Completed
6.				
7.				
8.				

Thank You,


Signature of
Teacher


Head
Depart. of Zoology

Principal
Dada Patil Mahavidyalaya, Karjat

Teaching learning Evaluation

(Test, Tutorial, Home Assignment, Seminar, Group discussion, Oral, Quiz competition and Report submission)

Department of ZOOLOGY

Sr.No.	Date	Class	No. of Students	Particular
01	23/07/2018 to 28/07/2018	T.Y.B.Sc.	33	To check the student's knowledge about Animal systematics & Diversity & obtain <u>curve outcomes</u> from them. 3 tasks were given.
02	04/05/2018	T.Y.B.Sc.	35	<u>Quiz Competition</u> for T.Y.B.Sc. students on Paper I- Animal syst & Diversity -I was organized. Quiz was held in five groups with five different rounds.
03	05/09/2018 06/09/2018	F.Y.B.Sc.	166	<u>open book test</u> was conducted to F.Y.B.Sc. students for paper Fundamentals of cell Biology.
04	09/09/2018	T.Y.B.Sc.	29	<u>Surprise test</u> based on paper-I Animal syst. & Diversity -I was conducted for T.Y.B.Sc. students.
05	11/09/2018	F.Y.B.Sc.	156	class test based on first four topics conducted.

S. Patil
Head

Department of Zoology
Bachchan Pratap Mahavidyalaya, Karjat

02.04.18

Advance and Slow Learners Activity

For F.Y.B.Sc

Advance Learners Activity

Sr.No.	Activity	Class	Date	Beneficiaries
<u>* Advance Learners *</u>				
TERM (I)	1) class Test ①	F.Y.B.Sc.	11/09/2018	49
	2) class Test ②	F.Y.B.Sc.	26/10/2018	47
	3) Seminars	F.Y.B.Sc.	27, 29/10/18	10 students
	4) Inspire Competition	F.Y.B.Sc.	07/10/2018	20
<u>* Slow Learners *</u>				
	1) Home Assignment - ①	F.Y.B.Sc.	upto 15/9/18	37
	2) Home Assignment - ②	F.Y.B.Sc.	upto 30/10/18	38
	3) Open Book Test	F.Y.B.Sc.	5, 6/09/18	35
	4) Previous year Question Papers	F.Y.B.Sc.	25/10/2018	41
Department of Zoology Dada Patil Mahavidyalaya				
<u>* Advance Learners *</u>				
TERM (II)	1) class Test ①	F.Y.B.Sc.	22/12/2018	49
	2) class Test ②	F.Y.B.Sc.	12/02/2019	48
	3) Students Seminars	F.Y.B.Sc.	16, 23, 25/1/19	11
	4) Model Question Papers	F.Y.B.Sc.	17/04/2019	49
<u>* Slow Learners *</u>				
	1) Home Assignment ①	F.Y.B.Sc.	29/12/2018	41
	2) Home Assignment ②	F.Y.B.Sc.	18/02/2018	35
	3) Home Assignment ③	F.Y.B.Sc.	28/02/2018	41
	4) Question Bank	F.Y.B.Sc.	15/2/2019	41

Signature of Teacher

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Zoology

Field Excursion / Field Visit

Sr.No.	Date	Class	Place / Route	Purpose	Duration	Beneficiaries	Remarks
01	06/10/2018	T.Y.B.Sc.	Rehekubi Blackbuck Sanctuary	Biodiversity study To celebrate world wildlife week.	09:00 am to 01:00 pm.	All T.Y.B.Sc. students.	Tracking in Sanctuary. Fruitful discussion with RFO.
02	23/01/2019	T.Y.B.Sc.	Therwadi, Tal. Karjat Dist. Ahmednagar (Sunrise Agro Services Pvt. Ltd.)	- To observe Vermicomposting unit - To observe Fresh water fishery	9:00 am to 02:30 pm.	All T.Y.B.Sc. Students	Onsite training in Vermicomposting & a lecture on Fishing Technology

Seminar / Conference / Workshops Attended/ Organised

Sr.No.	Name of Event	Level	Place	Duration	Remarks
01	Participated in "Rayat Central Inspire Project exhibition Competition" organized by Rayat shiksha Sanstha at Karad	Sanstha Level	S.G.M. college, Karad	31/10/2018	Received 2 nd Prize for QR code Technology
02	Actively Participated in "Biodiversity festival and meet" organized by CONAC, MNCC & wild konkan (NGOs).	state level	Amboli Dist. Sindhudurg	11/11/2018 to 13/11/2018	Successfully Completed
03	Participated & presented a Research Paper in International Conference (ICAPAS-2019) at Balwant college, Vita	International	Balwant College, Vita	05/01/2019 to 06/01/2019	Research Paper Presented
04	Participated and presented Research Paper in National Conference on 'Science & technology for sustainable development'.	National	Jay Jay Bingpur college, Jay Bingpur	20/01/2019	Presented Research Paper.
05	Participated & Presented a Paper in National Conf. on 'Sustainable Agriculture'	National	Devchand college, Arjunnagar	12/01/2019	Presented Research Paper

Involvement in Research

- 1) Grants for research projects sponsored by the government / non-government sources such as industry, corporate houses, international bodies, etc.

Sr. No.	Major / Minor	Name of the Project	Year of Sanction	Funding agency	Duration	Amt. Received	Status
	Minor	Study of waters Diversity Ujani Reservoir	June 2018	NGO (Archana Analytical services)	1 year	2000/-	Completed

- 2) Number of Ph. D Students registered / awarded Nil

Sr. No.	Name of the student	Title of the thesis	Year of Registration	Year of Award

- 3) Number of research papers in the journals

Sr. No.	Title of Paper	Author/ Coauthor	International / National	Name of Journal	Year of Publication Volume, Issue, Page No.	ISSN Number	UGC Approved (Yes/No)	Impact Factor/ hindex / i10 index / citation
01	Analysis of physico-chemical parameters of Ujani Reservoir	D.S. Kumbhar	International	Int. Journal of Research & Analy. Reviews (IJRAR)	Accepted for Publication	2358-1259	Yes	4.236 (Cosmos IF)
02	Role of Avifauna in Sustainable Agriculture	Author	International	RJLBPS	Feb. 2019 DOI 10.26434/6348 2019.0701.57	2654-6348	yes	0.896 (ICR)

Participation in Examination & Evaluation Work

Term: I

Sr.No.	Nature of Examination & Evaluation Work	Level	Place	Date	Hours
01.	Evaluation of T.Y.B.Sc. Internal examination (theory paper) 10 marks. Conducted by college	University	Karjat	27/09/18	
02	Evaluation of F.Y.B.Sc. Internal examination (theory paper) 20 marks Conducted by Zoology Department	College	Karjat	01/10/18	
03	Worked as junior supervisor for internal exam (S.Y.B.Sc.)	College	Karjat	29/09/18	2 Hrs.
04	Worked as a External Senior Supervisor for SPPU exams (Oct/Nov. 2018) Center - Mahatma Phule Nutan Maha, Mirajgaon	University	Mirajgaon	03/10/2018 to 17/10/2018	
05	Worked as junior supervisor for SPPU exams held in Oct/Nov. 2018.	University	Karjat	19/10/2018 to 05/11/2018	
06	Internal marks (out of 10) Submitted to University website	University	Karjat	25/10/2018	

Dr. P. H. Head
Department of Zoology
Dada P. H. Mahavidyalaya, Karjat

Leave Record

CASUAL LEAVE

Sr. No.	Date		Total Days	Sr. No.	Date		Total Days
	From	To			From	To	
01	25/06/2018	25/06/2018	01				
02	20/08/2018	20/08/2018	01				
03	11/09/2018	—	01				
04	10/12/2018	—	01				
05	24/04/2019	—	01				

MEDICAL LEAVE

Sr. No.	Date		Total Days	Medical Reason	Remarks
	From	To			

DUTY LEAVE

Sr. No.	Date		Total Days	Place	Nature of Work	Remarks
	From	To				
01	07/09/2018	07/09/2018	01	MJS Shrigonda	For Guest Lecture	—
02	03/10/2018	17/10/2018	15	Mirajgaon	As Ext. sr. sup. for SPPU Exam.	—
03	31/10/2018	—	01	S.G.M Karad	for central Inspire Competition	2nd Prize for QR-code
04	05/01/2019	—	01	Balwant College, Vita	for International Conference	Paper presented
05	11/03/2019	13/03/2019	03	SCS College Shrigonda	As External Examiner for S.Y.B.Sc. Exam.	—
06	25/03/2019	15/04/2019	23	HRDC Allahabad Uni.	To Participate in Refresher Course	'A' Grade
07						

Signature of Teacher

Head, Depart. of Zoology

Extra Lectures

Div. A = S.Y.B.Sc. + B.Sc.
Div. B = SYBSc + BCS

Sr. No.	Date	Time	Class	Subject	Topic	No. of pre studies
• S.Y.B.Sc. + S.Y.B.C.S - Environmental Awareness						
01	31/7/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Definition & scope	103
02	16/7/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Importance of Envi Aw.	98
03	21/7/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Definition & scope	87
04	23/7/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Importance of Envi Aw.	90
05	28/7/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Multidisciplinary Nature	107
06	30/7/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Multidisciplinary Nature	98
07	6/8/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Need of public Awareness	104
08	11/8/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Need of public Awareness	86
09	13/8/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Natural Resources	109
10	18/8/18	10:15-11:00	S.Y.B.Sc (B)	Envi. Aw.	Natural Resources	91
11	20/8/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Renewable Resources	111
12	27/8/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Renewable Resources	93
13	1/9/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Problems associated	96
14	3/9/18	10:15-11:00	SYBSc (B)	Envi. Aw.	forest, water.	92
15	8/9/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Problems associated	113
16	10/9/18	10:15-11:00	SYBSc (A)	Envi. Aw.	mineral Energy	101
17	17/9/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Case studies	97
18	24/9/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Case studies	100
19	1/12/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Conservation of Resources	103
20	3/12/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Conservation of Resources	106
21	8/12/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Conservation of Resources	94
22	10/12/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Conservation of Resources	100
23	15/12/18	10:15-11:00	SYBSc (A)	Envi. Aw.	Biodiversity	105
24	17/12/18	10:15-11:00	SYBSc (B)	Envi. Aw.	Biodiversity	94

Teachers Diary- Summary Chart

Month	Expected Period	Actual Period	Syllabus Completed	ICT lectures/Unit Test/ Home Assign. No. of Period	General Administration Committee Work Hrs.	Exam. Work Hrs.	Other Work Hrs.	CL/ DL Days
June 2018	/	/	/	/	F.Y. B.Sc. Admission Committee	/		01 CL
July 2018	F.Y. 19 T.Y. 10 E.A.	20 08 03	Completed Completed	Home Ass. No ① Home Ass. No. ①	Departmental meetings	/		—
Aug. 2018	F.Y. 24 T.Y. 16 E.A.	23 18 03	Completed Completed —	Home Ass. No. ② PPT Lect. 04 —		/		01 CL
Sept. 2018	F.Y. 24 T.Y. 16 E.A.	22 13 04	Completed Completed	Home Ass ③, ④ PPT. Lect. 03	Departmental meeting	Int. Exam		01 DL 01 CL
Oct. 2018	F.Y. 20 T.Y. 01 E.A.	05 01 03	Adjusted Completed	Home Ass. ⑤ Model Q.P. 1, 2, 3 F.Y. PPT lect 2	Term End meeting	3 rd Oct. to 17 Oct. Ext. Sr. Super.		15 DL 2 DL
Nov. 2018	03/11/2018 - 29/11/2018 -		Term End Meeting Term start Meeting	← Diwali Vacations → (from 04/11/18 to 29/11/18)				
Dec. 2018	F.Y. 23 T.Y. 18 E.A.	21 17 02	Completed Completed Completed	07/01/01 08/—/— ICT	Meeting of Staff Academy EA. Committee	— —	As per 1 CL Need	
Jan. 2019	F.Y. 20 T.Y. 16 E.A.	19 14 04	Completed Completed —	11/—/— 03/01/01 ICT based	Staff Academy Lecture was organized		Int. Conf. (Vita)	01 DL
Feb. 2019	F.Y. 05 T.Y. 04 E.A.	05 04 ← Exam →	Completed Completed	04/—/02 —/—/— /01/	F.Y. Practical Exam.			
March	S.Y. B.Sc. T.Y. B.Sc.		Practical Exam. Practical Exam		Refresher Course at HRD Allahabad University	Jr. Sup.		
April	Upto	15/04/2019	Refresher Course			Jr. Sup.		

Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Zoology (P-II)	F.Y. B.Sc.	A	02/07/2018	02:00 - 02:50 pm.

Teaching Topic / Subtopic Introduction to cell Biology

Teaching Points	Teaching Methods and References
* Basic Information * - what is cytology? - what is the importance of cell Biology study?	Discussion about previous knowledge chalk & Board
- methods to study cell Biology — Microscopy	Ref. cell Biology — C.B. Pawar
- Basic Principle of microscopy • Magnification • Resolving Power	Textbook of cell Biology — vision Publication

Subject	Class	Division	Date	Lecture Time
Zoology-(P-II)	F.Y. B.Sc.	A	03/07/2018	02:00 - 02:50 pm.

Teaching Topic / Subtopic Introduction to cell Biology

Teaching Points	Teaching Methods and References
Types of cells <pre> graph TD A[Types of cells] --> B[Stem cells] A --> C[Somatic cells] A --> D[Germ cells] </pre>	Discussion about previous knowledge
Stem cells Somatic cells Germ cells	chalk & Board
- characteristics	Ref. cell Biology — C.B. Pawar
- examples of stem cells - ESC - ASC	Textbook of cell Biology — vision Publication
- Somatic cells	
- Germ cells - Testis - Ovary	

Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Zoology	T.Y.B.Sc.	-	25/08/2018	12:38 - 01:26

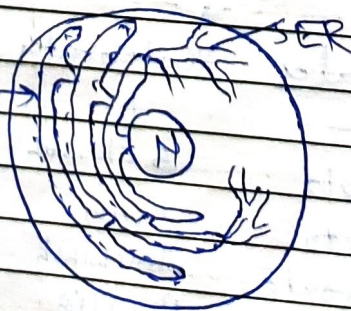
Teaching Topic / Subtopic Calotes : Morphology

Teaching Points	Teaching Methods and Reference
1) Head :- large, pyramidal, conical snout slit like, transverse, terminal mouth. Lips - absent. Eye - shielded by movable eyelids & a nictitating membrane. External ear - Tympanum.	• chalk & Board method • Specimen Demonstration • Ref. Modern textbook of Zoology Vertebrates - R.L. Kotpal
2) Trunk :- Neck connects head to trunk. Bet ⁿ trunk & tail at mid-ventral site slit-like vent called cloacal aperture	

Subject	Class	Division	Date	Lecture Time
Zoology	F.Y.B.Sc.	Btc	25/08/2018	

Teaching Topic / Subtopic Structure & Functions of cell organelles

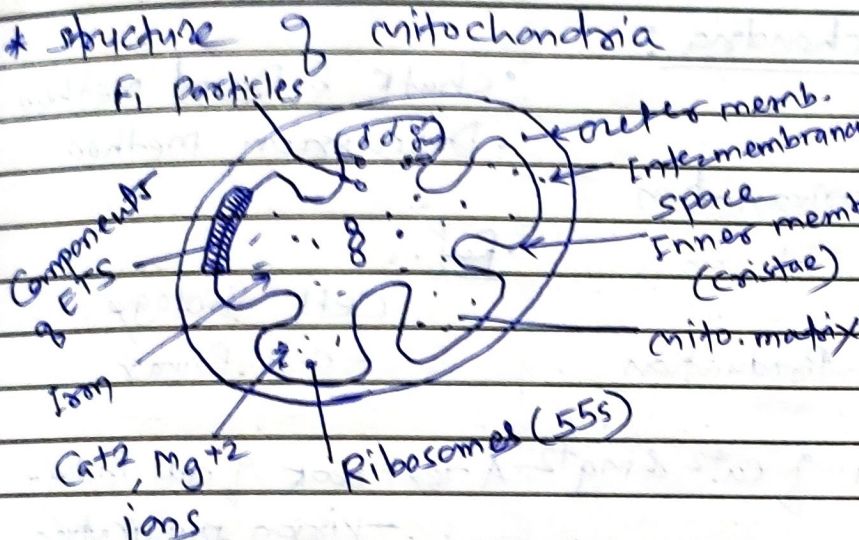
Teaching Points	Teaching Methods and Reference
1) Endoplasmic Reticulum Pooner (1953) Unimembranous liquid filled, occupied major area of cytoplasm. Occurrence - Structure Structural components i) Cisternae ii) Tubules iii) Vesicles.	• chalk & Board method • Ref. Cell Biology - C.B. Pawar Fundamentals of cell Bio. - vision pub.



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Zoology	F.Y.B.Sc.	A + C	10/09/2018	02:00 - 02:50 pm

Teaching Topic / Subtopic Mitochondria

Teaching Points	Teaching Methods and References
* structure of mitochondria 	• Chalk & Board method • Discussion method Ref. Cell Biology - C. B. Pawar A text book of cell biology - vision publication

Subject	Class	Division	Date	Lecture Time
Zoology	F.Y.B.Sc.		12/09/2018	10:30 - 12:30 pm

Teaching Topic / Subtopic Practical

Teaching Points	Teaching Methods and References
Practical (3) To study the classification with reason of the following. • Phylum - Aschelminthes - eg. Ascaris lumbricoides • Phylum - Annelids - Tubifex, Leech, Nereis General characters & examples with classification.	• PPT method • Chalk & Board method • Discussion method. Ref. Handbook of Practical Zoology (self prepared)

Daily Teaching Report

Subject

Class

Division

Date

Lecture Time

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

See
up
4-12-18

Prakash
प्राचार्य
बादा पाटील महाविद्यालय
कर्जत, जि. अहमदनगर

Subject

Class

Division

Date

Lecture Time

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

Prakash
प्राचार्य
बादा पाटील महाविद्यालय
कर्जत, जि. अहमदनगर
6-12-18

Teacher's Personal Profile



1. Full Name : Dr. A. A. Kodam
(Asha Ashvateb Kodam)
2. Department : Biology
3. Designation : Assistant Professor
4. Qualification : M. Sc., B. Ed., GATE, Ph.D.
5. Date of Birth : 16th May 1984.
6. Date of Appointment : 06th January 2020.
7. Phone No. : 950 3 407997, 7588242050 (whatsapp)
8. Mobile No. : 950 3 407997 (0241 - 2423141)
9. Blood Group : O+ve.
10. PAN No. : CXOPS8361K
11. AADHAR No. : 455976723403.
12. Driving License No. : MH-16 20150003886.
13. Email ID : ashakodam16@gmail.com
14. Rayat Bank Membership No. : 217035006902 (Rayat Bank Ak No.)
15. Savings A/C. No. : Bank of Maharashtra - Ak No - 60351384137
MIFCL Code - 41401400.
16. Address - Residential : C/A Bha Gaikarwar Nandev Suwant
Sawarth Nagar, Behind Sagar
Hotel, Pipeline Road, Lovedi
Ahmednagar - 414002, MS, India.

Permanent



INDEX

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02	Time Table - Term I	03
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05	Syllabus Completion Report - Term I	21
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Time Table

Lect.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	10.15 to 11.00 p.m.		S.Y.	F.Y. Practical	F.Y.B.Sc.	F.Y.B.Sc.	F.Y.B.Sc.
2	11.00 to 11.40		T.Y.B.Sc. (10.30 to 11.15)	(10.15 to 1.00)	S.Y.B.Sc.	S.Y.B.Sc.	S.Y.B.Sc.
3	11.50 to 12.40	T.Y.B.Sc.					
4	12.30 to 3.30	T.Y. Practical	T.Y.B.Sc.				T.Y.B.Sc. (11.00 to 11.50)
5	12.40 to 1.30	(12.30 to 3.30)					
6	1.30 to 2.15			T.Y.B.Sc.			
7	2.30 to 5.40		S.Y. Practical (2.30 to 5.45)				
8	2.40 to 3.30			F.Y.B.Sc.	F.Y.B.Sc.		F.Y.B.Sc.
9	3.30 to 5.30		Short Term Course				
10	(Short Term course)						

First Term

_____ Date 15/06/2021 to

_____ Date 20/10/2021


Teacher's Sign.




Head
Dept. of Science
Head

Don't forget to sign
Date _____

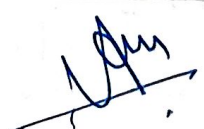
Time Table

Lect.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	10:15 to 12:45			F.Y.B.Sc. Practical		F.Y.B.Sc. Practical	
2	11:00 to 12:00 11:00 to 11:50					M.Sc. II	M.Sc. II
3	11:50 to 12:40				T.Y.B.Sc.		
4	12:40 to 1:30	T.Y.B.Sc.				T.Y.B.Sc.	
5	1:30 to 2:20						
6	2:40 to 3:30	F.Y.B.Sc.	F.Y.B.Sc.	F.Y.B.Sc.			
7	2:30 to 5:30		S.Y.B.Sc. Practical		S.Y.B.Sc. Practical		
8							

Second Term

_____ Date 21 / 10 / 2021 to

_____ Date 15 / 06 / 2022


 Teacher's Sign.




 Head
 Dept. of Maths
 Dada Mahavidyalaya, A Nagar

Teaching Plan for 2021-2022 First / Second Semester

Name of the Lecturer Dr. A. B. Kodaw

Subject Plant Life & Distribution Paper: I (Botany) Class: B.T.B.Sc.

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
September		1. Introduction	- General outline of Plant Kingdom. - Distinguishing characters of Algae with examples. - Distinguishing characters of fungi with examples. - Distinguishing characters of Bryophyta with examples. - Distinguishing characters of Pteridophyta. - Distinguishing characters of Gymnosperms & Angiosperms.	03 L	Assigned - 5 and 12 Sept.

Head,
Department of Botany

Department of Botany
Dada Patil Mahavidyalaya, Karjat.

5



Signature of Lecturer

Teaching Plan for 2021-2022 First / Second Semester

Name of the Lecturer Dr. A. B. Kodaw

Subject Botany Paper: New life & Class: F.Y.B.Sc.
Utilisation - 2

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
November			Life cycle of <u>Agaricus bisporus</u> , <u>Agaricus</u> Utilisation of fungi	2L	
December	12	5- Bryophytes	Introduction General characters Life cycle pattern of <u>Liverwort</u> Utilisation of Bryophytes	6L	
			Internal Assessment	3L	
			Internal Test	1L	
			Tutorial	2L	

[Signature]
Head,

Department of Botany

Head



[Signature]
Signature of Lecturer

Teaching Plan for 2021-2022 First / Second Semester

Name of the Lecturer Dr. Asha Bhushab Kadam

Subject Botany Paper is (B0531-1) Class: T-1 & 2
Botany

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
Dec.	11	<u>Fungi</u>	toddler & medicine. General characters Habit & Habitats Thallus organization Cell wall composition Nutrition & classification up to classed.	03	
Jan.		Study of life cycle of fungi	Taxonomic position Thallus structure Reproduction of <u>Mucor</u> <u>Saccharomyces</u> <u>Puccinia</u> <u>Penicillium</u> <u>Cercospora</u>	08	
Jan.	06	Symbiotic Associations	Internal Assessment Lichens Mycorrhiza & their significance.	02 04	

[Signature]
Head,

Department of Head
Department of Botany
Dada Patil Mahavidyalaya, Karjat



[Signature]
Signature of Lecturer

Teaching Plan for 2021-2022 First / Second Semester

Name of the Lecturer Dr. Asha Bhavshab Kodam

Subject Botany Paper: 20-358101
Medicinal Botany

Class: T.Y.B.Sc.

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
Feb. Jan.	06	Ethnobotany & folk medicine	Grafting Budding Pepinization Ethnobotany in India Methods to study ethnobotany Applications of ethnobotany National institutes Palace - ethnobotany	05	Tutorial Test
Feb.	06	Folk medicines & ethnobotany	Ethnomedicine Ethnobotany of ethnic communities in India Applications of natural products to certain diseases - Internal Assessment	05 01	Tutorial Test

Department of

Head,

Botany

11



Signature of Lecturer

Department of Botany
Dada Patil Mahavidyalaya, Karjat

Teaching Plan for 2021-2022 First / Second Semester

Name of the Lecturer Dr. Asha Bhousale Kadam
 Subject Botany Paper Bg-281 Class: 24.B.Sc.
Angiosperms of India

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
November	12		Neotype Concept of typification Rank & endings of taxa named Joining of Genus & Species named. Single & Double authority citation.	05	
December	12	Introduction to Ecology	Population & Scope Interdisciplinary approach Autecology & Synecology Species Diversity - Population Concept & Scope & types Alpha Beta & Gamma Diversity. Methods of vegetation sampling Quadrat method Plot less method Transect method. Plot less method. Herbarium in India - Concept & basis of herbarium identification.	06	
				06	

[Signature]
 Head,
 Department of Botany
 Head



[Signature]
 Signature of Lecturer

Teaching Plan for 2021-2022 First / Second Semester

Name of the Lecturer Dr. Asha Bhousale
 Subject Botany Paper BQ-231 Class B.T.B.Sc.
Angiosperms & Botany

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
November	12		Neotype Concept of typification Rank & endings of taxa named Coining of Genus & - Species named. Single & Double authority citation.	05 07	
December	12	Introduction to Ecology	Definition & Scope Interdisciplinary approach Autecology & Synecology Species Diversity - Definition Concept & Scope & types Alpha Beta & Gamma Diversity. Methods of vegetation sampling Quadrat method Plot less method Transect method. Plot less method. Habitat in India - Concept & basis of habitat identification.	06 06	

Santosh
 Head,
 Department of Botany
Head



Am
 Signature of Lecturer

Teaching Plan for 2021 -20 22 First / Second Semester

Name of the Lecturer Dr. Asha Bhavshah Kadam
 Subject Nursery Management & Budding Paper: BO-3610 Class: T.Y. B.Sc.

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
<u>March</u>	<u>106</u>	1. <u>Nursery</u>	- Definition - Objectives & Scope - Building up of infrastructure for nursery. - Planning & Seasonal activities - Planting → Direct seedling → Transplant.	03	
		2. <u>Seed</u>	- Structure & Types - Seed Dormancy - Causes & methods of breaking dormancy - Seed Storage - Seed Bank - Factors affecting seed viability - Genetic erosion - Seed Production Technology - Seed Testing & Certification	03	
		3. <u>Vegetative Propagation</u>	- Air Layering - Cutting - Selection of cutting - Collecting seeds	09	

Head,
 Department of Botany



Signature of Lecturer

Teaching Plan for 2021 -20 22 First / Second Semester

Name of the Lecturer Dr. Asha Bhavshah Kodam

Subject Botanical Techniques

Paper: BO-241

Class: M.Sc. II

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
March	02	Microscopic Techniques	Image formation (properties of light) lens-reproduction Dispersion of light objects, images, image quality Magnification concept Resolution	01	Assignment - I
April	08	Optical Microscopy	Light microscopy Confocal microscopy Phase contrast microscopy Fluorescent microscopy Electron microscopy Flow cytometry Atomic force microscopy.	07 L	Assignment - II Unit Test - I
		Microtechniques	Dissection Maceration Staining Peeling Whole mount Preservation & procedure	01 L	Assignment - II

Department of Botany

Department of Botany
Dada Patil Mahavidyalaya, Karjat



Signature of Lecturer

Syllabus Completion Report- Term I

Mrs. D. Asha Bhavchheb Kodaw
Asst. Prof., Department of Botany
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

To,
The Principal,
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

Subject : Syllabus Completion Report

Respected Sir,

With reference to above mentioned subject, I am herewith submitting the report of completion of the syllabus in the academic year 2021 -2022
I have completed the syllabus of the following papers.

Sr.No.	Class	Subject / Paper	Date of Completion	Remarks
1.	F.Y.B.Sc.	Plant life and Utilization - Part-I	11/03/2022	Completed
2.	S.Y.B.Sc.	Taxonomy of Angiosperms & Plant Ecology	02/03/2022	Completed
3.	T.Y.B.Sc.	Algae & Fungi	23/02/2022	Completed
4.	T.Y.B.Sc.	Cell Biology & Evolution	18/02/2022	Completed
5.	F.Y.B.Sc. - Practical	Practical Paper	08/03/2022	Completed
6.	S.Y.B.Sc.	Practical Paper	08/03/2022	Completed
7.	T.Y.B.Sc.	Practical Paper	16/02/2022	Completed
8.	T.Y.B.Sc.	Short Term Course	18/02/2022	Completed

Thank You,

Signature of
Teacher

Head
Department of Botany
Dada Patil Mahavidyalaya, Karjat



for Principal
Dada Patil Mahavidyalaya, Karjat
Dada Patil Mahavidyalaya
Karjat, Dist. Ahmednagar

Syllabus Completion Report- Term II

Mrs. Dr. Asha Bhausaheb Ingle
Asst. Prof., Department of Botany
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

To,
The Principal,
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

Subject : Syllabus Completion Report

Respected Sir,

With reference to above mentioned subject, I am herewith submitting the report of completion of the syllabus in the academic year 2021 -2022.

I have completed the syllabus of the following papers.

Sr.No.	Class	Subject / Paper	Date of Completion	Remarks
1.	F.Y.B.Sc.	Plant life & Utilization-II	25/05/2022	Completed
2.	T.Y.B.Sc.	Nursery Management & Gardening	25/05/2022	Completed
3.	M.Sc. II	Botanical Techniques	24/05/2022	Completed
4.	B.Y.B.Sc.	Practical	26/05/2022	Completed
5.	F.Y.B.Sc.	Practical	23/05/2022	Completed
6.				
7.				
8.				

Thank You,

Signature of
Teacher

Head
Depart. of Botany



Principal
Dada Patil Mahavidyalaya, Karjat
Dist. Ahmednagar

Department of Botany
Dada Patil Mahavidyalaya, Karjat

Teaching learning Evaluation

(Test, Tutorial, Home Assignment, Seminar, Group discussion, Oral, Quiz competition and Report submission)

Department of Botany



Sr.No.	Date	Class	No. of Students	Particular
1.	7/10/2021	F.Y.B.Sc.	69	Assignment-I on Int ⁿ plant kingdoms.
2.	23/11/2021	F.Y.B.Sc.	A-71 B-64	Assignment-II on Life cycle pattern of <u>Spargelia</u> .
3.	18/11/2021	T.Y.B.Sc.	21	Assignment No. 1 on Introduction of Cryptogamic Botany.
4.	26/11/2021	T.Y.B.Sc.	21	Assignment - 2 on Algae.
5.	30/11/2021	T.Y.B.Sc.	21	Assignment - 3 on <u>Nostoc</u> .
6.	1/12/2021	T.Y.B.Sc.	21	Assignment - 4 on <u>Volvox</u> .
7.	4/12/2021	T.Y.B.Sc.	21	Assignment - 5 on <u>Oedogonium</u> .
8.	8/12/2021	T.Y.B.Sc.	21	Assignment - 6 on <u>Scenedesmus</u> .
9.	10/12/2021	T.Y.B.Sc.	21	Assignment - 7 on <u>Chara</u> .
10.	11/12/2021	T.Y.B.Sc.	21	Assignment - 8 on Economic importance.
11.	13/12/2021	T.Y.B.Sc.	21	Assignment - 9 on <u>Saccharomyces</u> .
12.	15/12/2021	T.Y.B.Sc.	21	Assignment - 10 on <u>Rhizopus</u> .
13.	16/12/2021	T.Y.B.Sc.	21	Assignment - 11 on <u>Mucor</u> .
14.	22/12/2021	T.Y.B.Sc.	21	Assignment No-12 on <u>Ceratophyllum</u> .
15.	28/12/2021	T.Y.B.Sc.	21	Assignment - 13 on <u>Penicillium</u> .
16.	24/12/2021	S.Y.B.Sc.	91+37 239	Assignment No-1 on Botanical nomenclature.
17.	27/12/2021	S.Y.B.Sc.	91+37	Assignment - 2 on Ecology.
18.	01/01/2022	T.Y.B.Sc.	21	Assignment - 13, Symbiotic Association.
19.	03/01/2022	F.Y.B.Sc.	A-120 B-94	Assignment - III - Fungi
20.	28/01/2022	T.Y.B.Sc.	22	Assignment - IV - Lichen.
21.	23/02/2022	T.Y.B.Sc.	22 (Two batches)	Assignment - 1 on Medicinal Botany
22.	9/04/2022	M.Sc. II	26	Practical Exam Ac. to SPSC Guideline. Assignment I on Microscopy.

Teaching learning Evaluation

Sr.No.	Date	Class	No of Absentees	Particulars
23	23/04/2022	T.Y.B.Sc.	00	Unit Test I
24	21/04/2022	M.Sc. II	27	Unit Test I
25	09/04/2022	T.Y.B.Sc.	22	Assignment - 1 on Chemistry
26	16/04/2022	T.Y.B.Sc.	22	Assignment - 2 on Chemistry
27	21/05/2022	T.Y.B.Sc.	22	Assignment - 3 on Chemistry
28	09/05/2022	T.Y.B.Sc.	22	Assignment - 4 on Chemistry
29	14/05/2022	M.Sc. II	25	Assignment - 1 on Microbiology
30	24/05/2022	F.Y.B.Sc.	199	Assignment - 2 on Microbiology

Signature of Teacher



Head, Department of

Department of History

Dr. P. V. Mahavadyalaya, K.

Advance and Slow Learners Activity

Advance Learners Activity



Sr.No.	Activity	Class	Date	Beneficiaries
1.	Alumni Lecture Series from 23/9/2021 to 30/9/2021 (6 Days) for M.Sc. I & II students	M.Sc. I & M.Sc. II	23/9/2021 to 30/9/2021	
	(a) Dr. B. K. Avchar - Basics Plant Breeding			(25)
	(b) Mr. Rani Shaikh - Fungi Biodiversity.			(25)
	(c) Mr. S. A. Palave - General Botany			(32)
	(d) Mr. Innu Sanyad - Biochemistry			(37)
	(e) Mr. Amin Sanyad - Algal Biotechnology			(28)
	(f) Dr. J. G. Bagel - Diversity of Angiosperms			(22)
2.	First Diagnostic Test for Advance & Slow Learners.	T.Y.B.Sc.	03/01/2022	22
3.	Second Diagnostic Test for Advance & Slow learners	T.Y.B.Sc.	27/01/2022	22
4.	Conducting Seminars for advanced learners	T.Y.B.Sc.	29/01/2022	15
5.	Conducting Lecture Series for	T.Y.B.Sc.	31/01/2022	07

Signature of Teacher

Head, Department of Botany

Bada Patil Mahavidyalaya, Karjal

(c)

27

Seminar / Conference / Workshops Attended/ Organised



Sr.No.	Name of Event	Level	Place	Duration	Remarks
1.	State level seminar on "Sagadritil funbhoyi"	State	Online	One Day (19/6/2021)	Participated
2.	Workshop on Microscopy	National	Online	One Day 28/7/2021.	Attended.
3.	Webinar on "Using tools to prevent Plagiarism."	National	Online	One Day 30/7/2021.	Attended.
4.	International Conference on recent trends in Chemical sciences	International	Online	One Day 12/8/2021.	Participated
5.	Conference on Nucleic Acid Science & Technology	National	Online	Four Days 10/8/2021 to 13/8/2021	Attended.
6.	Conference on Innovative trends in Natural & applied sciences.	International	Online	Two Days 17/8/2021 to 18/8/2021	Participated.
7.	Seminar on Biodiversity	National	Online	23/8/2021	Participated.
8.	Refresher course on "Recent trends in Life Sciences."	National - MHRD (PMMMN MOTT)		Two Weeks 1/9/2021 to 15/9/2021	Participated & Completed.
9.	Workshop on NET-SET guidance.	National	Online (Dept. of Botany, DPMK)	One Day 17/9/2021	Organised
10.	Conference on emerging trends in Life Science.	International	Online (Dept. of Botany & Zoology, DPMK)	One Day 30/9/2021	Organised & Presented Paper
11.	National Seminar on "Research Methodology"	National	Online (Startup & Innovation Cell, DPMK)	1/10/2021	Organised
12.	Online e-Seminar on Advanced in plant science	National	Online (Dept. of Botany, DPMK)	13/10/2021	Organised

Seminar / Conference / Workshops Attended / Organized

Sl No	Name of Event	Level	Place	Duration	Remarks
13.	Workshop on Plant Identification & herbarium Methodology.	National	Online	Two Days 19th to 20th Feb. 2021	Attended
14.	Workshop on Supercritical & Supercritical	National	Online	One Day (19th Feb 2021)	Attended
15.	International Conference on Environment & Sustainable development, Risk, Impact & mitigation.	International	Online	Three days 15-27 Nov 2021	Attended
16.	Workshop on IPR	National	Online	One Day 22 to 23 Nov 2021	Attended
17.	Workshop on Advanced Instrumentation	National	Online	Two Days	Attended
18.	Workshop on IPRs	National	Online	7-8 Jan. 2022 (2 Two Days)	Attended
19.	Guest lecture under faculty and student Exchange Programme.	College level	Online mode	25th Jan. 2022 (2:30 to 4:00 pm)	Organized
20.	Workshop on Plant Economy Theory & Practice.	University level	Online mode	23/02/2022 to 24/02/2022	Attended
21.	Workshop on "IPR" organised by DPMK collaboration with NIPAM	University level	DPMK, Kolhapur	28/02/2022	Organized
22.	Two day Online International Conference on Advanced in Science & Technology (ICAST-2022)	International	Kolhapur. U.S.A.	9-10 March 2022	Attended & presented paper.
23.	International Conference on Health & Medicine	International	Kolhapur. U.S.A.	9th April 2022	Attended & presented paper.
24.	International Conference on fungal diversity & its Novel applications.	International	Hodgson, Pune.	9th April 2022	Attended & presented paper.



Involvement in Research

- 1) Grants for research projects sponsored by the government / non-government sources such as industry, corporate houses, international bodies, etc.

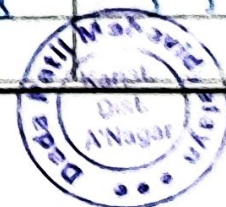
Sr.No.	Major / Minor	Name of the Project	Year of Sanction	Funding agency	Duration	Amt. Received	Status
1.	Minor	Phytochemical Screening & seed extract of <i>Isotoloid juncea</i> w.r.t. Antiperility Agent.	2020.	Seed money project.	One Year	15,000/-	Completed on 31 March 2021

- 2) Number of Ph. D Students registered / awarded

Sr.No.	Name of the student	Title of the thesis	Year of Registration	Year of Award

- 3) Number of research papers in the journals

Sr. No.	Title of Paper	Author/ Coauthor	International / National	Name of Journal	Year of Publication Volume, Issue, Page No.	ISSN Number	UGC Approved (Yes/No)	Impact Factor/ hindex / i10 index / citation
1.	Phytochemical screening of seed extract of <i>Isotoloid juncea</i> w.r.t. Antiperility Agent.	Dr. A. B. Kodam, f. B. M. Chykar.	International	The Mataraja Sajjiwar University of Buroda	2021, vol. No. 55, No. 1 (XE) Pg. No-69-77	ISSN-0025-0122	Yes	5.5 + 4.
2.	Antigenotoxic effect of Mersopur Bark	A. B. Kodam, A. B. Pawar, P. S. Gaitwad	International	The Mataraja Sajjiwar University of Buroda	2021, vol. 55, No. 1 (VII).	0025-0122	Yes	5.5 + 4



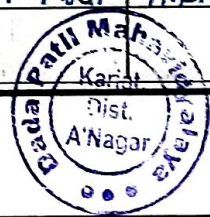
Participation in Examination & Evaluation Work

Sr.No.	Nature of Examination & Evaluation Work	Level	Place	Date	Hours
1.	Paper Setting - T.Y. B.Sc. Horticulture.	University	Pune (Send 98 by mail)	17/6/2021 to 20/6/2021	9 hrs
2.	T.Y. B.Sc. Practical Examination Acc. to SPPV, Pune guideline	University	Dept. of Botany	23/2/2022 to 25/2/2022	6 hrs.
3.	Paper Setting M.Sc. I - Plant Genetics & Plant Breeding	University	MASS, (Autonomous Ahmednagar) (Wky - NAG)	24/2/2022	36 hrs
4.	University Practical Examination - External of NAGS	University	Ahmednagar	3/3/2022 to 7/3/2022	28 hrs
5.	University Practical Examination - T.Y. B.Sc.	University	DPMK	23/2/2022	8 hrs
6.	University Practical Examination - F.Y. B.Sc.	University	DPMK	8/3/2022	8 hrs
7.	University - Theory paper of T.Y. B.Sc. @ University Students, Sem. V & VI, Paper Setting Order.	@ University	SPPV, Pune	17/5/2022 to 19/05/2022	36 hrs
8.	T.Y. B.Sc. Internal Exam	College	DPMK	14/05/2022	1 hrs.
9.	T.Y. B.Sc. Practical Exam - Internal & External Exam.	College SPPV	DPMK	20/5/2022	4 hrs
10.	F.Y. B.Sc. Practical Exam - Internal & External - Morning & Evening	University level.	DPMK	28/05/2022	6 hrs



Committee Work Report

Sl. No.	Date & Day	Time & Place	Name of Committee	Worked as Comm.		Issues Discussed in Meeting	Meetings Working Hrs.	Remarks
				Chairman	Member			
01	11/07/2021	1 P.M. to 3 P.M. Department of Botany	Staff Meeting		✓	Agar, Dept. Presentation Planning.	02 hrs.	Attended
2	22/7/2021	5 P.M. to 6.15 P.M. Department of Botany	Staff Meeting		✓	Departmental Presentation 2020-2021	01 hr 15 min.	Attended
3	20/8/2021	12.40 P.M. to 1.30 P.M. Dept. of Botany	Staff Meeting		✓	Syllabus Distribution	1 hour and 30 min.	Attended
4	21/8/2021	12.40 P.M. to 1.30 P.M. DPMK	Linking of (NAAC)		✓	Discussion regarding criteria.	1 hour & 30 min.	Attended
5	28/08/2021	10.30 A.M. to 11.30 A.M. D.P.M.K. g F.Y.B.Sc.	Admission committee		✓	Admission criteria for F.Y.B.Sc.	1 hr. & 30 min.	Attended
6	27/08/2021	12.00 P.M. to 1.30 P.M. DPMK	Admission committee		✓	Guidance of student w.r.t. admission	3 hrs.	Attended
7	27/8/2021	1.30 P.M. to 4.30 P.M. DPMK	Admission committee		✓	Guidance of student w.r.t. admission	3 hrs.	Attended
8	27/8/2021	11.30 A.M. to 1.00 P.M. Dept. of Botany	Staff Meeting		✓	Presentation of Botany activities in progress (DC members - follow up structure - discussion).	1 hour & 30 min.	Attended
9	21/9/2021	12.30 P.M. to 1.30 P.M. Dept. of Botany	Staff Meeting		✓	Planning of workshop.	1 hour	Attended
10	15/9/2021	4.00 P.M. to 5.00 P.M. Dept. of Botany	Staff meeting		✓	Planning of International workshop.	1 hour	Attended



Committee Work Report

Sr. No.	Date & Day	Time & Place	Name of Committee	Worked as Comm.		Issues Discussed in Meeting	Meeting Working hrs.
				Chairman	Member		
11.	15/9/2021	3:00 to 4:00 pm Dept. of Botany	Workshop on net-SET.		✓	All members of work	1 hour
12.	17/9/2021	3:45 to 4:45 pm Dept. of Botany	International Conference		✓	Planning of International workshop	1 hour
13.							
14.	24/9/2021	4:00 to 5:00 pm Dept. of Botany	Int. Conference Committee		✓	Planning of National Seminar	1 hour
15.	4/10/2021	3:00 to 4:00 pm Dept. of Botany	National Seminar		✓	Planning of National Seminar	1 hour
16.	25/10/2021	8:00 to 10:30 pm IGAC Hall, NAAC	IGAC Hall, NAAC		✓	AAA-2019-2020 ACAR-2020-2021	2 hour
17.	26/10/2021	11:00 to 5:00 pm IGAC Hall, NAAC	IGAC Hall, NAAC		✓	Completed all task - AAA & ACAR regarding T.Y.B.S.	6 hour
18.	11/11/2021	1:00 to 2:00 pm Thursday	Principal Sir Lubin		✓	Admission II nd Semester	1 hour
19.	11/11/2021	3:00 to 4:00 pm Thursday	Department of Botany		✓	Meeting	1 hour
20.	11/12/2021	2:15 to 3:15 pm Thursday	Department of Botany		✓	B.Voc. Syllabus Distribution	1 hour
21.	8/12/2021	12:00 to 2:00 pm Friday	Induction Programme		✓	College & Staff introduction to students	3 hours
22.	14/12/2021	2:15 to 2:40 pm Friday	Department of Botany		✓	Distribution of B.Voc. Syllabus	25 minutes
23.	28/12/2021	11:30 to 1:30 pm Friday	Startup Inhibition Cell	✓		Regarding Science Day celebration	12:30 to 1:30 p.m.
24.	28/12/2021	1:30 to 2:30 pm Friday	AAA - NAAC		✓	Regarding AAA-2020-2021	2 hour
25.	05/04/2022	10:00 am to 1:00 pm Friday	Extra mural activity	✓		Organised immediate nature lecture for U.G. & P.G. students	3 hrs.
26.	04/04/2022	7:00 to 8:30 pm Friday	Hostel Committee		✓	Girls problem solving	1 hr. 30 min.
27.	01/06/2022	8:30 to 5:00 pm Friday	GIII-Ido do Ariskar		✓	Exhibition & Ido do Ariskar	9 hrs.
28.	2/06/2022	8:00 to 4:30 pm Friday	Annual Prize Distribution Programme.		✓	Annual Prize Distribution	8 hr. 30 min.
29.	3/06/2022	8:00 to 3:00 pm Friday	Cultural programme.		✓	Cultural programme.	7 hrs.

Leave Record

CASUAL LEAVE

Sr. No.	Date		Total Days	Sr. No.	Date		Total Days
	From	To			From	To	
1.	13/09/2021	18/09/2021	One Day	8.	9/3/2021	9/3/2021	One Day
2.	14/09/2021	14/09/2021	One Day	9.	14/3/2021	14/3/2021	One Day
3.	16/10/2021	16/10/2021	One Day				
4.	20/10/2021	20/10/2021	One Day				
5.	20/11/2021	20/11/2021	One Day				
6.	06/12/2021	06/12/2021	One Day				
7.	20/12/2021	20/12/2021	One Day				

MEDICAL LEAVE

Sr. No.	Date		Total Days	Medical Reason	Remarks
	From	To			

DUTY LEAVE

Sr. No.	Date		Total Days	Place	Nature of Work	Remarks
	From	To				
1.	23/2/2022	24/02/2022	Two days	Shri. J. University	To attend workshop on Plant Taxonomy	Participated
2.	03/03/2022	07/03/2022	Four Days	NALS	Theory & Practical	Completed
3.	4/5/2022	05/05/2022	Two Days	Abushejor SPPU, Pune	M. Sc. I - Examiner	Completed
4.	17/05/2022	19/05/2022	Three Days	SPPU, Pune	To p. sent re-eval paper in International T. & S. Sem. - II & III question paper setting.	Completed all talk.

Signature of Teacher

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Head, Depart. of Head

Department of Botany
Dada Patil Mahavidyalaya, Karjat

Extra Lectures

Sr. No.	Date	Time	Class	Subject	Topic	
1.	30/04/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Electronic Microscopes	87
2.	07/05/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Microtomy - Part I	89
3.	08/05/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Concept Types Advantages	13
4.	03/05/2022	10:00 a.m. to 11:00 a.m.	T.T.B.Sc.	Botanical Techniques	Microtomy - Concept	13
5.	15/05/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Microtomy - Stage Microscope	13
6.	16/05/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Gardening - Concept, Types	13
7.	20/05/2022	10:00 a.m. to 11:00 a.m.	T.T.B.Sc.	Botanical Techniques	Structure	13
8.	20/05/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Chromatography Techniques	13
9.	21/05/2022	10:00 a.m. to 11:00 a.m.	M. Sc. II	Botanical Techniques	Electrophoresis Techniques	13
10.	21/05/2022	11:50 to 12:30	S.Y.B.Sc.	Botany Practical	Cultivation Practices of Tomato, Cabbage & Onion	89
11.	24/05/2022	12:00 p.m. to 1:00 p.m.	F.Y.B.Sc.	Plant life & Utilisation	Cytotechnical & Histotechnical Methods	13
12.	25/05/2022	12:00 p.m. to 1:45 p.m.	F.Y.B.Sc.	Plant life & Utilisation-I	GC-MS & HPLC	13
13.	26/05/2022	12:00 p.m. to 1:00 p.m.	F.Y.B.Sc.	Plant life & Utilisation-II	Explanation of Practical skeleton	87
14.	27/05/2022	2:00 p.m. to 3:00 p.m.	F.Y.B.Sc.	Plant life & Utilisation	Utilisation & Economic importance of Pteridophytes	61
15.	28/05/2022	10:00 a.m. to 1:00 p.m.	T.T.B.Sc.	Nursery Management	Life cycle pattern of Nephrolepis-I	87
16.	30/05/2022	10:00 a.m. to 1:00 p.m.	F.Y.B.Sc.	Nursery Management	Life cycle pattern of Nephrolepis-II	91
17.	24/06/2022	10:30 a.m. to 11:20 a.m.	F.Y.B.Sc.	Plant life & Utilisation	Life cycle pattern of Nephrolepis-III	89
					Cultivation Practices of Onion & Tomato	12
					Cultivation Practices of Cabbage & Brinjal	13
					Revision of Plant life & Utilisation - II	54



Teachers Diary- Summary Chart

Month	Expected Period	Actual Period	Syllabus Completed	ICT lectures/Unit Test/ Home Assign No. of Period	Conventional Lectures/strategies/Concentrations/Work Hrs.	Practical Hrs.	Co-curricular Hrs.
June							
July					64 hrs.		
Aug.					12 hrs.		
Sept.	F.Y.B.Sc. 03 F.Y.B.Sc. .			02	5 hrs.		
Oct.	F.Y.B.Sc. (09) (10) T.Y.B.Sc. (09) (09) S.Y.B.Sc. (12)			08 07 08	9 hrs.		
Nov.	F.Y.B.Sc. (12) (12) T.Y.B.Sc. (08) S.Y.B.Sc. (12)			08 06 08	2 hrs.		
Dec.	F.Y. (12) (12) T.Y.B.Sc. (06) S.Y.B.Sc. (12)		✓	10 04 10	2 hr & 30 min.		
Jan.	T.Y.B.Sc. (06) F.Y.B. S.Y.B.Sc. (09)		✓	04 08			
Feb.	T.Y.B.Sc. (06)			05	1 hr. 30 min.	50 hrs	
March	M.Sc. II (02) F.Y.B.Sc. (06)			02 04	3 hrs.	41 hrs.	6
	F.Y.B.Sc. (02) T.Y.B.Sc. (12) M.Sc. II (08)			10 10 08	1 hr. 30 min.		



May F.Y.B.Sc. (02) ✓
 May T.Y.B.Sc. (12) ✓
 June M.Sc. II (08) (08) M.Sc. II (08) ✓

Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Plant Life and Utilization - I	F.Y. B.Sc.	-	20/9/2021	12:30 to 1:10 pm

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

Introduction of Plant Kingdom System.

Online lecture by using Google Meet link.

Reference -
Text book of Prashant Publication.

Subject	Class	Division	Date	Lecture Time
Plant Life & Utilization - I	F.Y. B.Sc.	-	21/9/2021	1:10 p.m. to 1:50 pm

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

General outline classification of Plant Kingdom with examples.

Online lecture by using Google Meet link.

Reference -
Text book of Nirali Publication.



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Plant Life and Utilization-I	F.Y.B.Sc.	-	28/9/2021	04.00 to 1.50 p.m.

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

Distinguishing characters of Pteridophytes with examples.

Online lecture by using google meet link.

References -
Text book of Pteridophytes by - Vasistha.

Subject	Class	Division	Date	Lecture Time
Plant life and Utilization-I	F.Y.B.Sc.	-	29/9/2021	04.30 to 1.50

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

Distinguishing characters of Gymnosperms with examples.

Online lecture by using google meet link.

References -
Text book of Gymnosperms by - Vasistha.



Teacher In Charge

Head

Faculty In Charge

Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Plant life and Utilisation - I	F.Y.B.Sc.	B	28/10/2021	2.40 p.m. to 3.30 p.m.

Teaching Topic / Subtopic

Teaching Points

Life cycle pattern of Spiraea w.r.t. reproductive structures.

Teaching Methods and References

① ICT based teaching method
② Chalk & Talk method.

References -
Text book of
Algae.
By O.P. Sharma.

Subject	Class	Division	Date	Lecture Time
Plant Life and Utilisation - I	F.Y.B.Sc.	A	29/10/2021	2.40 p.m. to 3.30 p.m.

Teaching Topic / Subtopic

Teaching Points

Life cycle pattern of Spiraea w.r.t. reproductive system.

Teaching Methods and References

① ICT based teaching method
② Chalk & Talk method.

References -
Text book of Algae
By - O.P. Sharma.



1 Nov. to 10 Nov. 2021 - Diwali Vacation.



Head
30/10/2021

Science Faculty Incharge.

Department of Botany
Dada Patil Mahavidyalaya, Karjat

Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Practical Exam: Evaluation. Practical Journal	T.Y.B.Sc. S.Y.B.Sc.	-	26/2/2022 Saturday	10:00 a.m. to 3:00 p.m.

Teaching Topic / Subtopic

Teaching Points

- (i) Evaluation of practical examination of paper-I of T.Y.B.Sc. class
- (ii) checking of S.Y.B.Sc. Journal
- (iii) Documentation of workshop on IPR held on 28th Feb. 2022

Teaching Methods and References

- (i) Discussion method
- (ii) Evaluation method

Subject	Class	Division	Date	Lecture Time
Workshop on IPR collaboration with NPAM	-	-	28/2/2022 Monday	11:30 a.m. to 2:30 p.m.

Teaching Topic / Subtopic

Teaching Points

Organised workshop on IPR as per SPPV, notification on the occasion of Science Day celebration with collaboration with NPAM.

Teaching Methods and References

Discussion method.

Reference - notification of SPPV.

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Teacher In-Charge

Head
Department of Botany
Dada Patil Mahavidyalaya, Karjat

Dr. Principal
Dada Patil Mahavidyalaya
Karjat

Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
Botany & Angiosperm of India	S.T.B.Sc.	-	21/05/2022 Wednesday	10.00 a.m. to 3.00 p.m.

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

- (i) Journal practical - Ceratophyllum
- (ii) Documentation of workshop on IPR.
- (iii) Explanation of paper of practical exam

(iv) Evaluation method

References -

As per syllabus S.T.B.Sc. Practical Acc. to SPPU, Pune.

Subject	Class	Division	Date	Lecture Time
-	-	-	-	-

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

Semester - I Summary of Lectures

- F.Y.B.Sc. - 32
- S.Y.B.Sc. - 23
- T.Y.B.Sc. - Super-I - 35
- M.Sc. I - (Cryptogamic Botany)
- Super-10 - 23 (Medicinal Botany)
- (Credit - II)

3/3/2022

Head

Department of Botany
Dada Patil Mahavidyalaya, Karjat



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
F.Y.B.Sc. Practical Exam.	F.Y.B.Sc.	-	11/3/2022 Friday	10:10 a.m. to 5:30 p.m.

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

① F.Y.B.Sc. Practical patches
list of listed absent
students in exam.

Evaluation method

② Committee - Research lab.
for Botany.

References -
As per syllu,
guideline.

Subject	Class	Division	Date	Lecture Time
Start-up & Innovation cell	-	-	12/3/2022 Saturday	10:30 a.m. to 5:30 p.m.

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

- Preparation of file on
start-up & Innovation cell
activity - Workshop on
IPR.

Reporting method.

- Preparation of report.



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
1111 Reproduction	-	-	31/05/2022 Tuesday	10:00 am to 12:00 pm

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References

① Preparation of poster & models for 1111 Idea ch Arkakar competition.

Discussion & Analysis method.

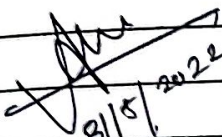
② Meeting with Principal Sir regarding Annual Prize Distribution Committee.

Subject	Class	Division	Date	Lecture Time

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References


31/5/2022
Teacher-In Charge


31/5/22
Head
Department of Botany
Baba Padi Mahavidyalaya, Karjat


In Charge
Baba Padi Mahavidyalaya
Karjat, Dist. Ahmednagar



Teacher's Personal Profile



1. Full Name : Kshirsagar Santosh
Ramchandra
2. Department : chemistry
3. Designation : Assistant professor
4. Qualification : M.Sc. NET (physical chemistry)
5. Date of Birth : 04/04/1984
6. Date of Appointment : 06/01/2020
7. Phone No. : —
8. Mobile No. : 9890159483/8830557549
9. Blood Group : A⁺ve
10. PAN No. : CJKPK4394N
11. AADHAR No. : 292409630407
12. Driving License No. : —
13. Email. ID : sksantosh84@gmail.com
14. Rayat Bank Membership No. : —
15. Savings A/C. No. : 60308626374
16. Address - Residential : C/o - Iqbal Ismail Kazi House No.
4167 Buwasaheb nagar Karjat, Ahmednagar.
-414402.
Permanent : 71, Pimpal Galli, A/p - Anala
Tal - paranda Dist - Osmanabad
-413505.

I N D E X

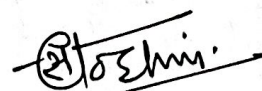
Sr.No.	Perticulars	Page No.
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03	Time Table - Term II	04
04	Teaching Plan for 20 -20	5 to 20
05	Syllabus Completion Report - Term I	21
06	Syllabus Completion Report - Term II	22
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08	Advance Learners Activity	25
09	Slow Learners Activity	26
10	Field Excursion / Field Visit	27-28
11	Seminar / Conference / Workshops Attended / Organised	29-30
12	Involvement in Research	31-32
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Time Table

Lect.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	7.30 - 10.30 am	—	—	—	—	T.Y. B.Sc CH-347(T ₁)	CH-347(T ₂) T.Y. B.Sc
2	9.00 to 10.00 am.	—	—	M.Sc-I CHP-110	M.Sc-I CHP-110	—	—
3	10.00 to 11.00 am	M.Sc-I CHP-110	M.Sc-I CHP-110	—	—	—	—
4	11.00 - 11.45 am	—	—	—	—	T.Y. B.Sc CH-331	T.Y. B.Sc CH-331
5	01.45 - 02.00 pm	T.Y. B.Sc CH-331	—	—	—	—	—
6	11.45 - 12.30 pm	—	—	—	T.Y. B.Sc CH-331	—	—
7	2.24 - 5.36 pm	—	M.Sc-I 107	—	S.Y. B.Sc (S3)	—	—
8	2.00 - 2.40	—	S.Y. B.Sc	S.Y. B.Sc	—	—	—

First Term

Start _____ Date 15/08/2020 to
End _____ Date 24/09/2021


Teacher's Sign.




Head
Dept. of Chemistry
Dada Patil Mahavidyalaya
Karjat, Dist. Ahmednagar

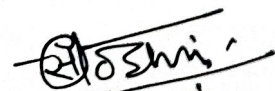
Time Table

Lect.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	10-10.40	—	—	—	—	T.Y.B.Sc CH-341	T.Y.B.Sc CH-341
2	10.50-11.30	—	—	—	T.Y.B.Sc CH-341	—	—
3	12.30-1.10	—	—	T.Y.B.Sc CH-341	—	—	—
4	1.30-3.00	—	—	T.Y.B.Sc CH-347	—	—	—
5	10-10.50	M.Sc-I CHP-210	M.Sc-I CHP-210	—	M.Sc-I CHP-210	—	—
6	11-11.50	—	—	M.Sc-I CHP-210	—	—	—
7	1.30-3.00	—	—	—	—	—	M.Sc-I CHG-290
8							

Second Term

Start Date ¹³ / 05 / 2021 to

End Date ²⁸ / 07 / 2021


Teacher's Sign.




Department of Chemistry
Dada Patil Mahavidyalaya, Karjat

Teaching Plan for 2020-2021 | First / Second Semester

Name of the Lecturer Kshirsagar Santosh Ramchandra

Subject physical chemistry Paper: (I) Class: T.Y. B.Sc.

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
Aug 2019	10	<u>1. Chemical Kinetics:</u>	Recapitulation of chemical kinetics, Third order reaction, Derivation of Integrated rate law for third order reaction with equal initial concentration, characteristics of third order reaction, examples of third order reaction, methods to determine order of reaction using integrated rate equation method, graphical methods, half life methods, Differential method. Effect of temperature on reaction rate, Arrhenius equation, related numericals.	10	02
Sept- Sept 2019	15	<u>2. Electrolytic Conductance:</u>	Recapitulation of Electrolytic conductance, specific and equivalent conductance, Kohlrausch's law and its applications to determine --- a) Electrolytic / Equivalent conductance at infinite dilution of weak electrolyte b) The Ionic product of water c) Solubility of sparingly soluble salts	14	02

Head,
Department of Chemistry

Dept. of Chemistry
Bada Patil Mahavidyalaya
Karjat, Dist. Ahmednagar



Signature of Lecturer

Teaching Plan for 2020 -2021 First / Second Semester

Name of the Lecturer Kshirsagar Santosh Ramchandra

Subject Physical and Analytical chemistry Paper: (I) CH-301 Class: 3-Y.B.Sc

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
Aug 2019	09	<u>1. chemical kinetics:</u>	Introduction to kinetics, the rate of chemical reaction, - definition of rates, rate laws and rate constant, reaction order and molecularity, determination of rate law, factors affecting reaction rates, integrate rate laws - zero order reaction, first order reaction, second order reaction (with equal and unequal initial concentration of reactants), half life period, methods for determination of order of reactions, Arrhenius eq ⁿ - temperature dependence the reaction rates, interpretation of Arrhenius Parameters, reaction dynamics - collision theory and transition state theory of bimolecular reactions, comparison of the theories and Problems.	12	02
Sept- 2019	05				
Sept- 2019	06	<u>2. Surface chemistry:</u>	Introduction, Basic terms related to surface chemistry, factors affecting Adsorption, characteristics, types, classification of Adsorption, Freundlich and Langmuir Adsorption Isotherm, BET theory, Applications Numericals.	06	01


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 Karjat, Dist. Ahmednagar




 Signature of Lecturer

Teaching Plan for 2020 -2021 First / Second Semester

Name of the Lecturer Kshirsagar Santosh Ramchandra
 Fundamentals of
 Subject physical chemistry Paper: ① CHP-110 Class: M.Sc-①
ECTP-①

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
			<u>Section-①</u>		
Aug-2019	05	<u>① Thermodynamics :</u>	state function, path function, exact and inexact differentials internal energy and enthalpy, temperature dependent energy and enthalpy, reversible and irreversible, adiabatic expansion. The entropy of irreversible changes, the Helmholtz and Gibbs function. Entropy and entropy changes in an ideal gas with temperature and pressure, Clausius inequality, chemical potential.	05	01
Aug 2019	02	<u>② change of state :</u>	Partial molar quantities, methods for determination of molar quantities, ideal solutions, Raoult's and Henry's law, Thermodynamics of Gibbs function of mixing, colligative properties, Elevation in boiling point, depression in freezing point and osmosis.	04	02
Sept-2019	05	<u>③ Quantum Chemistry :</u>	Applications of quantum chemistry - black body rad ⁿ , photo electric effect, de-Broglie hypothesis and uncertainty principle and its experimental evidence.	05	02

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Signature of Lecturer
[Signature]

Teaching Plan for 2020-2021 First / Second Semester

Name of the Lecturer Kshiragar Santosh Ramchandra

Subject General chemistry - II Paper: CHG-290 Class: M.Sc - I
Practical course Section - II

Month	Lecture available	Topic	Sub Topic	Proposed Lectures for subtopic	Tutorial / Test Etc.
Feb. 2021 March 2021	08 04	<u>Part - I</u> <u>conductometry:</u>	1. Hydrolysis of Aniline hydrochloride 2. Determination of λ_0 and dissociation constant of CH_3COOH . 3. Hydrolysis of ethyl acetate by NaOH .	12	3
April 2021 May 2021	04 08	<u>Part - II:</u> <u>Potentiometry:</u>	1. stability constant of complex 2. solubility of sparingly soluble salt 3. Estimation of halide in mixture.	12	3
June 2021	08	<u>Part - III</u> <u>pH - metry:</u>	1. Determination of the acid and base dissociation constant of an amino acid and hence the isoelectric point of glycine. 2. Determination of dissociation constants of tribasic acid phosphoric acid.	08	2
July 2021	08	<u>Part - IV:</u> <u>Table Work:</u>	1. Analysis of powder XRD of SrTiO_3 and Ag metal or any two compounds. 2. Detailed interpretation of Raman spectra of diatomic molecules.	08	02


 Head,
 Department of Chemistry
 Head

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 Karjat, Dist. Ahmednagar

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 Signature of Lecturer

Syllabus Completion Report- Term I

Mr. Santosh Ramchandra Kshirsagar
Asst. Prof., Department of chemistry
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

To,
The Principal,
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

Subject : Syllabus Completion Report

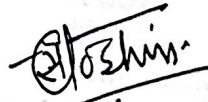
Respected Sir,

With reference to above mentioned subject, I am herewith submitting the report of completion of the syllabus in the academic year 2020 -20 21

I have completed the syllabus of the following papers.

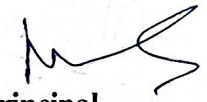
Sr.No.	Class	Subject / Paper	Date of Completion	Remarks
1.	S.Y. B.Sc	CH-301 Phy. & An. chem	24/04/2021	completed
2.	T.Y. B.Sc	CH-341- I Phy. chem.	26/04/2021	completed
3.	M.Sc - I	Fundamentals of Phy. chem. I	05/05/2021	completed
4.	T.Y. B.Sc	CH-347 practical	26/04/2021	completed
5.	M.Sc - I	CHP-107 Practical	05/05/2021	completed
6.				
7.				
8.				

Thank You,


Signature of
Teacher




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Dada Patil Mahavidyalaya
Karjat, Dist. Ahmednagar


Principal
Dada Patil Mahavidyalaya, Karjat
PG PRINCIPAL
Dada Patil Mahavidyalaya
Karjat, Dist. Ahmednagar

Syllabus Completion Report- Term II

Mr. Santosh Ramchandra Kshirsagar
Asst. Prof., Department of Chemistry
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

To,
The Principal,
Dada Patil Mahavidyalaya, Karjat
Dist - Ahmednagar

Subject : Syllabus Completion Report

Respected Sir,

With reference to above mentioned subject, I am herewith submitting the report of completion of the syllabus in the academic year 2020 -2021

I have completed the syllabus of the following papers.

Sr.No.	Class	Subject / Paper	Date of Completion	Remarks
1.	T.Y.B.Sc	CH-341 Phy. chem.	09/07/2021	completed
2.	M.Sc - I	CCTP-4 phy. chem.	28/07/2021	completed
3.	T.Y. B.Sc	CH-347 phy. chem.	09/07/2021	completed
4.	M.Sc - I	CHP-107 phy.chem.	09/07/2021	completed
5.				
6.				
7.				
8.				

Thank You,


Signature of
Teacher


Head
Dept. of Chemistry
Dada Patil Mahavidyalaya
Karjat, Dist. Ahmednagar


H.C. PRINCIPAL
Dada Patil Mahavidyalaya, Karjat
Dist. Ahmednagar



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CHP-110 Fundamentals of phys. chem. (I)	M.Sc - (I)	-	13/08/2020	10.00 to 11.00 am

Teaching Topic / Subtopic - chemical kinetics

Teaching Points	Teaching Methods and References
<u>Recapitulation</u>	Black board method
1. classification of chemical reaction.	1. Essential of physical chemistry - Puri, Sharma
2. Definitions	Pathriya.
3. Examples	2. chemical kinetics -
4. Rate law	Ladiler
5. How to write a rate law	3. chemical kinetics -
6. Difference between order and molecularity	H.E. House.

Subject	Class	Division	Date	Lecture Time
Physical chemistry CH-331	T.Y. B.Sc	-	13/08/2020	1.15 to 2.00 PM

Teaching Topic / Subtopic - chemical kinetics

Teaching Points	Teaching Methods and References
<u>Recapitulation of chemical kinetics</u>	Black Board method
1. Definition	1. Essential of physical chemistry - Bhal Tuli
2. Rate of Reaction	
3. How write a rate of reaction	2. The principles of physical chemistry - Maxton & Prutton.
4. Units	
5. order of determination from Rate law	
6. molecularity of Reaction	
7. Difference.	



Daily Teaching Report

Subject	Class	Division	Date	Lecture
CHP-110 Fundamentals of Physical chemistry-I	M.Sc-I	-	14/08/2020	10.00 to 11.00 am

Teaching Topic / Subtopic - Thermodynamics

Teaching Points	Teaching Methods and Resources
Introduction of Thermodynamics 1. system, surrounding 2. Types of system 3. process 4. Types of processes with explanation and examples 5. Equilibrium 6. Types of equilibrium 7. 2nd law of thermodynamics 8. State function and path functions	Physical chemistry by T. Engel & P. Reid.

Subject	Class	Division	Date	Lecture
CH-301- Physical and Analytical chem.	S.Y.B.Sc	A & B	14/08/2020	2.00-2.40 PM.

Teaching Topic / Subtopic - chemical Kinetics.

Teaching Points	Teaching Methods and Resources
<u>Introduction</u> - Definition $\text{N}_2\text{O}_4 \longrightarrow 2\text{NO}_2$ concept of writing the rate of reaction $\text{Rate} = \frac{dx}{dt} = \frac{dc}{dt}$ Unit - mol/l.s. M.S. $aA + bB \longrightarrow cC + dD.$ Examples of writing rate law for various reaction.	principles of physical chemistry - Puri, Sharma Pathaniya.



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CHP-110 physical chem.	M.Sc-I	—	17/08/2020	10.00 to 11.00 am.

Teaching Topic / Subtopic — Thermodynamics

Teaching Points	Teaching Methods and References
1. Exact and Inexact differentials	physical chemistry
a. Exact differential	by T. Engel and P. Reid.
b. Inexact differential	
c. Examples	
d. cyclic rule.	
e. Euler's criteria for exactness	
f. Explanation.	
2. Internal Energy and enthalpy	
3. Temperature dependent enthalpy	
Kirchoff's law	

Subject	Class	Division	Date	Lecture Time
CH-331 Physical chemistry	T.Y.B.Sc	—	17/08/2020	1.15 - 2.00 pm.

Teaching Topic / Subtopic — chemical kinetics

Teaching Points	Teaching Methods and References
Relationship between Rate eq ⁿ , Rate constant and half life time for various order of reaction.	Chalk & Talk method.
1. Order	1. Essentials of physical chemistry — Bhal — Tuli.
2. Rate law	a. The principles of physical chemistry — Marton — putton
3. Differential form	
4. Integrated form	
5. Units	
6. Half life time	



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CH-331 - Physical chemistry	T.Y.B.Sc	-	20/08/2020	11:45 - 12:30

Teaching Topic / Subtopic - chemical Kinetics.

Teaching Points	Teaching Methods and References
1. writing Rate law for various reactions and finding out molecularity and order	1. The principles of physical chemistry - Maroon-prutton
2. Methods to determine Rate law	2. Essentials of physical chemistry - Bhal-Tuli.
3. Rate constant	
4. Factors affecting rate constant	Black board method.
5. pseudomolecular reaction	
Examples	
Reasons.	

Subject	Class	Division	Date	Lecture Time
CH-347 Physical chemistry Practical	T.Y.B.Sc	-	21/08/2020	7:30 - 10:30 am

Teaching Topic / Subtopic - Practicals of chemical kinetics.

Teaching Points	Teaching Methods and References
Aim: To study the hydrolysis of an ester using two different concentration and hence to find out the effect on velocity constant of the react.	chemical Kinetics by Lodler 2 nd edition.
1. Theory	
2. calculation	
3. procedure	
4. Result	
5. conclusion.	



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CH-331 physical chemistry	T.Y. B.Sc	—	10/10/2020	11:00 - 11:45 am

Teaching Topic / Subtopic - Investigation of molecular structure

Teaching Points

Dipole moment and molecular structure -

Electric polarization of molecules

a. polar molecules

b. Nonpolar molecules

c. polar covalent bonds.

Dipole moment definition

$$\mu = q \times l$$

$$\text{Debye} = 10^{-18} \text{ cm-esu.}$$

Molar polarization (Non polar molecule)

$$P_M = P_i = \frac{D-1}{D+2} \cdot \frac{M}{d} = \frac{4}{3} \pi N \alpha$$

Teaching Methods and References

The principles of physical chemistry 4th edn by Marrow - Pouton.

Subject	Class	Division	Date	Lecture Time
—	—	—	—	—

Teaching Topic / Subtopic —

Teaching Points

Teaching Methods and References

Examination
Supervision

Jr.

13/10/2020

29/10/2020



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CKP-110 Physical chemistry	M.Sc-I	-	29/10/2020	9.00 - 10.00 am

Teaching Topic / Subtopic - Rate law

Teaching Points	Teaching Methods and References
1. Preequilibria Defination Use Examples Application to different reactions.	chemical Kinetics by K. J. Iadler
2. Unimolecular reaction Reaction Mechanism Steady State approximation Examples solved.	

Subject	Class	Division	Date	Lecture Time
CK-331 Physical chemistry	T.Y. B.Sc	-	29/10/2020	11.45 - 12.30 am

Teaching Topic / Subtopic - Investigation of molecular structure

Teaching Points	Teaching Methods and References
1. Determination of dipolemoment Vapour - Temperature method. principle construction calculation $\mu = \sqrt{\frac{9k}{4\pi N}} \sqrt{B}$ $\mu = 0.01273 \sqrt{B} \text{ Debye}$	The principles of physical chemistry 4th edn by Marston - Prutton.
2. Dilute Solution method. principle, construction calculation. $\mu = 0.01273 \sqrt{B} \text{ Debye}$	



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CHP-110 Physical chemistry	M.Sc - I	-	20/01/2021	9.00 - 10.00 am

Teaching Topic / Subtopic - Revision of section - (I)

Teaching Points

Teaching Methods and References

1. Quantum chemistry

1. Quantum chemistry by Levine.

2. chemical bonding

2. Quantum chemistry by R. K. Prasad.

3. M.C.Q solution

4. Numerical solution.

Subject	Class	Division	Date	Lecture Time
CHP-107 physical chemistry practical	M.Sc - I	-	20/01/2021	11.30 - onwards

Teaching Topic / Subtopic - pH-metry

Teaching Points

Teaching Methods and References

Aim:

To determine dissociation constants of tribasic acid (phosphoric acid) by using pH-metry.

physical practical chemistry by Findely.



Daily Teaching Report

Subject	Class	Division	Date	Lecture
CHP-110 Physical chemistry	MSc - I	-	21/01/2021	9:00 - 9:45

Teaching Topic / Subtopic - Revision of section-II

Teaching Points	Teaching Methods and Resources
1. Rate laws	physical chemistry by P.W. Atkins
2. Kinetics of complex reaction.	
3. Theories of rate of reaction	physical chemistry by Raymond Chang (2006)
4. Enzyme catalysis	
5. Molecular Thermodynamics.	
MCA solution	
problem solution	

Subject	Class	Division	Date	Lecture
CHP-107 Physical chemistry Practical	MSc - I	-	21/02/2021	11:30 onwards

Teaching Topic / Subtopic - Conductometry.

Teaching Points	Teaching Methods and Resources
Aim: To study the second order velocity constant of the hydrolysis of ethyl acetate by sodium hydroxide using conductivity measurement.	physical practical chemistry by Kosla.



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Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
chp-210 physical chemistry	M.Sc-I	—	15/02/2021	10.00-10.50 am
Teaching Topic / Subtopic — Molecular Spectroscopy				

Teaching Points

- Introduction
1. Recapitulation of molecular spectroscopy
 - a. Microwave spectroscopy
 - b. Infra-red spectroscopy
 - c. Raman Spectroscopy
 - d. Electronic Spectroscopy of molecules.
 - e. Mossbauer Spectroscopy

Teaching Methods and References

Fundamentals of molecular spectroscopy by C.N. Banwell and E.M. McCash 4th edition.

Subject	Class	Division	Date	Lecture Time
chp-210 physical chemistry	M.Sc-I	—	16/02/2021	10.00-10.50 am
Teaching Topic / Subtopic — Microwave spectroscopy				

Teaching Points

Microwave Spectroscopy

1. Region. 10^5 to 10^7 nm
2. Microwave radⁿ.
3. classification of molecules based on moment of Inertia.
 - a. Linear
 - b. Nonlinear
 - c. spherical top.
 - d. Asymmetric top
 - e. Symmetric top molecules.

Teaching Methods and References

Fundamentals of molecular Spectroscopy by C.N. Banwell and E.M. McCash 4th edition.



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
M.Sc-I CHP-210 phy. chem.	M.Sc-I	-	23/07/2021	10 - 10.50 am.

Teaching Topic / Subtopic - Applications of Radioactivity

Teaching Points	Teaching Methods and References
Typical reactions involved in preparation of radioisotopes -	Elements of Radiochemistry by H.J. Arnikar 3rd edition
1. ^3H	
2. ^{14}C	studied w.r.t.
3. ^{24}Na	a) Natural preparation
4. ^{32}P	b) Artificial preparation.
5. ^{35}S	
6. ^{131}I	



Subject	Class	Division	Date	Lecture Time
CHP-210 Phy. chem.	M.Sc-I	-	24/07/2021	11.00 - 11.50 am

Teaching Topic / Subtopic - Application of Radioactivity

Teaching Points	Teaching Methods and References
General principles using radioisotopes	Elements of Nuclear chemistry - H.J. Arnikar 2nd edition
1. physical constant - Diffusion coefficient	
$J = D \frac{dc}{dx}$	
2. zone diffusion technique	
Fick's law of diffusion	
Applications.	
a. principle	
b. Technique	
c. Calculation.	



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CKP-210 phy. chem.	M.Sc-I	—	26/07	11-05-11-50 AM

Teaching Topic / Subtopic — Application of Radioactivity

Teaching Points

Teaching Methods and References

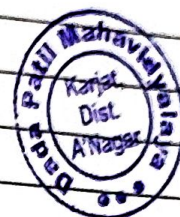
1. Principle At equilibrium
2. Determination of surface area of BaSO₄

Elements of Nuclear Chemistry by H.J. Arnikar
2nd edition

$$b = \left(\frac{M}{dL}\right)^{2/3} \text{ — surface area}$$

3. Solubility of sparingly soluble salt
1. principle
2. calculation
3. solubility of PbI₂

$$\log \frac{S_2}{S_1} = \frac{\Delta H_s}{2.303R} \left[\frac{T_2 - T_1}{T_1 T_2} \right]$$



Subject	Class	Division	Date	Lecture Time
CKP-210 phy. chem.	M.Sc-I	—	27/07	10-10-50 am

Teaching Topic / Subtopic — Application of Radiation chemistry

Teaching Points

Teaching Methods and References

Analytical applications of Isotopes —

1. Principle (NNA)
2. Techniques
3. Methods

Elements of Nuclear Chemistry by H.J. Arnikar
2nd edition

- a. Absolute method
- b. comparator method.

4. Merits & Demerits.

5. Isotopic dilution method (IDA)

1. Principle
2. Techniques

3. Method. a) DIDA
b) IDIDA



Daily Teaching Report

Subject	Class	Division	Date	Lecture Time
CHP-210 Phy. Chemistry	M.Sc-I	—	28/07/2021	10.15-11.45 am

Teaching Topic / Subtopic - Application of Radioactivity

Teaching Points

Industrial Applications of Radioisotopes

1. Radiation gauging
2. Thickness measurement and control
3. Friction and wearout
4. γ -radiography
5. List of Isotopes
6. Explanation
7. MCQ solution.



Teaching Methods and References

Elements of chemical nuclear and radiochemistry
J.C. Amikar
2nd edition.

Dr. H. H. H. H.
Dept. of Chemistry
Dada Pathi Mahavidyalaya
Karjat, Dist. Ahmednagar

Subject	Class	Division	Date	Lecture Time

Teaching Topic / Subtopic

Teaching Points

Teaching Methods and References



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