Shri Shivaji Mahavidyalaya, Barshi. Department of Botany

Time -Table

Academic Year 2019-20

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			B.Sc. II I	Practical		
9.40-1.00	PAP SVM	PAP SVM	DSB SVM	DSB SVM	SPG SVM	SPG SVM PBG
10.30- 11.20			-	-	-	-
11.20-				I B1 SPG		
12.10	7					
	I B1 SPG				I B1DSB	
12.10-1.00			gi gi gi a	partition of	Ŋ.	
	III DSB	III- DSB	III - PAP	III- PBG	III- PBG	III- SSG
	III- SVM	III- DSB	III- SSG	III- PAP	III- PAP	III- SSG
1.00-1.50		I B1 SPG		1		I B1DSB
	A.3	I B2				I B2
1.50-2.40		II - SSG	II SPG			II PAP
2.40-3.30			7 16 1	II SPG		
3.30-4.20					II PAP	
420-5.10	II SSG					
.20 0.10	1	WHAT IN	B.Sc. III	Practical		
1.50-6.00	PBG	SPG	PAP		DSB	1 30 E.
	12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B.Sc. I I	Practical		
2.40-6.00	DSB	SSG PBG	SPG PBG	SSG PBG	SSG PBG	PAP SSG

Work load

Sr.	Name	Theory	Practical	Total	Signature
No.	1 /- 32/38 S			64 6	
1	Ms. Gaikwad S. S.	5 7	16	21	
2	Mr. Patil P. A.	5	17	22	17
3	Mr. Bhise D. S.	5	17	22	3388
4	Dr. Gaikwad S. P.	5	17	22	Som.
5	Mrs. Ganje P. B.	2	25	27	Frank
6	Mr. Mane S. V.	1	24	25	Swe
	Total			138	

Head
Department of Botany
Shri Shivali Mahavidyalaya
Barshi, Dist-Solapur

Shri Shivaji Mahavidyalaya, Barshi

Department of Botany

				SYLLABUS DISTRIBUTION 2019-20	UTION 2019-20	
Sr.	Class	Sem.	Paper No.	Title of Paper	Chapters	Name of Teacher
			ı	Microbiology and Phycology	All chapters	Bhise D.S.
		-	П	Fungi and Archegoniate	All Chapters	Gaikwad S. P.
	B.Sc. I		Ш	Plant Ecology	All Chapters	Gaikwad S. P.
		п	IS	Taxonomy of Angiosperm	All chapters.	Bhise D. S.
7			>	Anatomy and Taxonomy of Angiosperm	Anatomy	Gaikwad S. S.
					Taxonomy of Angiosperm	Patil P. A.
			M	Plant Ecology	Chapters 1,2,3,4	Gaikwad S. P.
	B.Sc. II			3	Chapters 5,6	Patil P. A.
			VIII	Plant Physiology and cytogenetics	Plant Physiology	Patil P. A.
		i			Cytogenetics	Gaikwad S.P.
		> -	VIII	Economic Botany	Unit: 1,2,3,7	Gaikwad S. S.
					Unit: 4,5,6	Gaikwad S.P.
-			IX	Reproductive Biology of Angiosperms	All Chapters	Patil P. A.
		;	×	Genetics	All Chapters	Bhise D. S.
-		>	X	Plant Physiology	All Chapters	Ganje P.B.
		- 6	IIX	Plant Breeding	All Chapters	Gaikwad S. S.
	B.Sc. III		ШХ	Molecular Biology	All Chapters	Patil P. A.
8 1			XIV	Plant Biotechnology	All Chapters	Bhise D. S.
		I	XV	Plant Metabolism	All Chapters	Ganje P.B. and Mane S. V.
			XVI	Biostatistics	All Chapters	Gaikwad S. P.



Mrs. Sandhya S. Gaikwad Head &Associate Professor Department of Botany Shri Shivaji Mahavidyalaya, Barshi.

Date: 30/04/2020

To, Principal, Shri Shivaji Mahavidyalaya, Barshi.

Subject: Syllabus Completion report

Respected Madam,

I have completed allotted theory and practical syllabus of B.Sc. I/II/III within prescribed time during the academic year 2019-20. Copy of workload distribution is attached herewith.

Please accept it and oblige.

Thanking You,

Yours Faithfully

Mrs. Sandhya S. Gaikwad

Prakash A. Patil
Associate Professor
Department of Botany
Shri Shivaji Mahavidyalaya,
Barshi.
Date: 30/04/2020

To, Head, Department of Botany Shri Shivaji Mahavidyalaya, Barshi.

Subject: Syllabus Completion report

Respected Madam,

I have completed allotted theory and practical syllabus of B.Sc. I/II/III within prescribed time during the academic year 2019-20. Copy of workload distribution is attached herewith.

Please accept it and oblige.

Thanking You,

Yours Faithfully

Prakash A. Patil

Department of Botany Shri Shivali Mahavidyalaya Barshi, Dist-Solapur

Damaji S. Bhise Assistant Professor Department of Botany Shri Shivaji Mahavidyalaya, Barshi.

Date: 30/04/2020

To, Head, Department of Botany Shri Shivaji Mahavidyalaya, Barshi.

Subject: Syllabus Completion report

Respected Madam,

I have completed allotted theory and practical syllabus of B.Sc. I/II/III within prescribed time during the academic year 2019-20. Copy of workload distribution is attached herewith.

Please accept it and oblige.

Thanking You,

Yours Faithfully

Damaji S. Bhise

Head Department of Boleny Shri Shivali Mahavidyalaya Barshi, Dist-Solapur

Dr. Sampatrao P. Gaikwad Assistant Professor Department of Botany Shri Shivaji Mahavidyalaya, Barshi.

Date: 30/04/2020

To, Head, Department of Botany Shri Shivaji Mahavidyalaya, Barshi.

Subject: Syllabus Completion report

Respected Madam,

I have completed allotted theory and practical syllabus of B.Sc. I/II/III within prescribed time during the academic year 2019-20. Copy of workload distribution is attached herewith.

Please accept it and oblige.

Thanking You,

Yours Faithfully

Dr. Sampatrao P. Gaikwad

Head Department of Boteny Phri Shivaji Mahavidyalaya Barshi, Dist-Solapur

Name of the Teacher: Mrs.Gaikwad S. S.

Class: B.Sc. III

Sr. No.	Month	Weeks	er XVI: Biost Available lectures	Theory units	Practicals													
		I		Vocation														
		II	The state of the s	Vocation														
1	November	III	3	Introduction	1-100-12													
	1	IV	3	Basic Principles														
		I	3	Statistical Methods														
		п	3	Variables	Practical													
2	2 December	Ш	3	Collection of Primary Data: Introduction, Types of Data, Methods of Data collection,	13 to 16													
			IV	3	Merits and demerits, classification of Data, tabulation and presentation of Data,													
	January	I	3	Measures of central tendency: Mean, Mode and median														
		January	l III	3	Measures of Dispersion	Practical												
3			III	3	Probability: Introduction and basic concepts	17 to 20												
		3 Pi	Probability: Kinds and measures of probability															
		I	3	Statistical inference: Introduction	haraki -i													
															П	3	Hypothesis: Students 't' test and Chi square test and its significance.	Practical
4	February	III	3	Revision	21-24													
	M.	IV 3	3	Revision	12													
		I		Practical examination														
		II		Examination														
5	March	III		Examination	and the second													
W.	As a second	IV		Examination	and the second													
	April			Supervisions														

Department of Bolleny Shri Shivaji Mahavidyalaya Barahi, Dist-Solapur

Name of the Teacher: Mrs.Gaikwad S. S.

Class: B.Sc. III

Name of paper: Sem. V Paper XII: Plant Breeding

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals	
		I	3	Admission Process	Tom or don't	
		II	3	Admission Process	de la company	
1	June	III	3	Admission Process	- 1-1-1-1 m	
	Many of the	IV	3	Plant Breeding: Introduction, Aims and Objective Scope of plant breeding		
		I	3	Methods of crop improvement		
		II	3	Centres if origin, and domestication of		
2	July	III	3	Plant genetic resourses, Introduction and acclimatization		
		IV	3	Selection Methods		
		I	3	Hybridization		
	August		II	3	Hybridization in self pollinated crops	
3		III	3	Hybridization in cross pollinated crops		
			IV	3	Quantitative inheritance: Introduction, Concept and Mechanism	
		I	3	Examples of inheritance of Kernel colourcolour in wheat		
1		II	3	Monogenic verses polygenic inheritance		
4	September	III	3	Mutation and Plant brreding: Role of mutation, Role of polyploidy		
		IV	3	Role of Biotechnology in crop improvement Distant hybridization		
		I	3	Revision		
		II	3	Revision		
5	October	III	3	Revision	13-1-1-1	
		IV	3	Revision	7 1 1940	

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Department of Bolleny Shri Shiveji Mahavidyalaya Barahi, Dist-Solapur

2019-20

Name of the Teacher: Mrs.Gaikwad S. S.

Class: B.Sc. II

Name of paper: Sem. IV Paper VIII: Economic Botany

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals
		I			
1	November	II		- 10 10 10 10 10 10 10 10 10 10 10 10 10	
		Ш	2	Introduction	
		IV	2	Syllabus discussion	
		I	2	Legumes: Chick pea	
2 December	December	II	2	Legumes: Red gram	
	2000111001	Ш	2	Legumes: Lucern and Sesbania	
		IV	2	Plant Fibers: Cotton	
	January	I	2	Plant Fibers: Coir	
3		П	2	Vegetable oil Sources: Ground nut and Soybean	
		III	2	Brief account and cultural practices of Ground nut and Soybean	
7.67		IV	2	Plant perfumes and Cosmetics: Jasmine	
	1	I	2	Plant perfumes and Cosmetics: Rose	139
4	Folomore	II	2	Plant perfumes and Cosmetics: Aloe	
	February	Ш	2	Revision	
		IV	2	Revision	
4	50 or #8	, I	2	Revision	1
_	March	II	2	Unit test	1
5	March	III		1.80	
		IV	1.2	Victorial London Report Report Special	

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Head

Department of Boteny

Shri Shivaji Mahavidyalaye

Bershi, Dist-Solepur

2019-20

Name of the Teacher: Mrs.Gaikwad S. S.

Class: B.Sc. II

Name of paper: Sem. III Paper V: Anatomy and Taxonomy of Angiosperm

Sr. No.	Month	Weeks	Available lectures	Theory units	Practica s
		I	2	State of the state	
1	June	II	2	PiterAsia Asias san grapinan, Piteras Asia a	
		III	2	Admission Process	
	V	IV	2	Admission Process	
	July	I	2	Syllabus discussion	
2	July	II	2	Meristem: Introduction and classification Function	The Carlesia
		III	2	Theories of structural development Apical cell theory	
		IV	2	Histogen theory, Tunica corpus theory	
	August	I	2	Permanent tissue: Structure and function of simple tissue	
3		II	2	Structure and Function of Complex tissue	Pro Due
		III	2	Types of vascular bundle	N to 24
17		IV	2	Types of vascular bundle	
		I	2	Tissue system and their function: Epidermal Tissue system	
		II	2	Secretory tissue system	
4	September	III	2	Mechanical tissue system	17764 114
		IV	2	Secondary body of the plant: Normal secondary growth in dicot root and stem	
		I	2	Periderm, Lenticel and annual rings	
5	October	II	2	Basic structure of wood and its types	
,		Ш	2	Revision	
	All the Land	IV	2	Revision	

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Department of Botsny Shri Shiveji Mahavidyalaya Barshi, Dist-Solapur

Name of the Teacher: Mr.Patil P. A.

Class: B.Sc. III

Name of paper: Sem. VI Paper XIII: Molecular Biology

-	e of paper: Se		THE RESIDENCE OF THE PARTY OF T	olecular Biology		
Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals	
		I		Vocation		
	November	II		Vocation		
1		III	3	Nucleic Acid: Introduction, Historical perspective	mantenade de la	
		IV	3	DNA as the carrier of genetic information	e reporter and the	
		1	3	The structure of Genetic material: Introduction, Structure of DNA, Salient features of Double helix	Drastical	
2	December	II	3	Types of DNA, Denaturation and Renaturation of DNA,	Practical 13 to 16	
		III	3	Organization of DNA	10 10 10	
	10	IV	3	Structure and Types of RNA		
	January		I	3	Replication of DNA: Introduction, Synthesis of DNA	
3		II	3	DNA replication, enzymes	Practical	
3		III	3	Transcription: Introduction, transcription in Prokaryotes	17 to 20	
		IV	3	Principles of transcriptional regulation		
		Ì	3	Regulation of Lactose Metabolism in <i>E. coli</i> .		
4		П	3	Eukaryotes: transcription factors, heat shock protein, steroid and peptide hormones	Practica	
7	February	Ш	3	Translation: Introduction, Structure of Ribosome, Assemblage of Ribosome and mRNA, Steps in Protein synthesis.	21-24	
		IV	3	Process of protein synthesis, Post translational modification.		
		I		Practical examination		
		II		Examination		
5	March	III		Examination	200	
		IV		Examination		

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Department of Botteny Shri Shiveji Mahavidyalayi Dist-Solepur

Name of the Teacher: Mr.Patil P. A.

Class: B.Sc. III

Name of paper: Sem. V Paper IX: Reproductive Biology of Angiosperm

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals	
		I	3	Admission Process		
		11	3	Admission Process		
1	June	Ш	3	Admission Process		
		IV	3	Introduction Reproductive Development		
	1	I	3	Anther wall: Structure and function Microsporogenesis		
2	2 July	II	3	Callose deposition and its significance Male gametophyte and development	e Practical	
2		III	3	NPC system Palynology and scope	1 to 4	
		IV	3	Ovule structure and types of ovule		
	August	I	3	Megasporogenesis, Female gametophyte		
		August	II	3	Female gametophyte development	Practical
3			Ш	3	Pollination and fertilization: Introduction	5 to 8
		IV	3	Pollination types and significance		
		I	3	Structure of stigma and style Path of pollen tube in pistil		
	September	II	3	Double fertilization	Practical	
4		Ш	3	Embryo, Endosperm Introduction Structure and types of endosperm	9-12	
		IV	3	Structure of monocot and dicot seed		
		I	3	Seed dispersal	15-22	
_	Ontologi	II	3	Revision		
5	October	III		Examination		
		IV		Vocation	The French	

Pakil P.A.

Department of Boteny Shri Shivaji Mahavidyalaya Barshi, Dist-Solapur

2019-20

Name of the Teacher: Mr.Patil P. A.

Class: B.Sc. II

Name of paper: Sem. IV Paper VII: Plant Physiology and Cytogenetics

Sr. No.	Month	Weeks	Available lectures	Plant Physiology and Cytogenetics Theory units	Practicals
	5414616	V + I	The second second	- Armore topics	For any area
1	November	II	1869. CERN		
		III	2	Introduction	
		IV	2	Syllabus discussion	
		MI	2	Photosynthesis: Introduction and Significance	
2 December	December	п	2	Photosynthetic apparatus Photosynthetic pigments	
		III	2	Light Reaction	
		IV	2	Calvin cycle,	
3 Janua		I	2	C4 cycle	
	January	II	2	CAM Pathway	
		III	2	Nitrogen Metabolism: Introduction	
	4,1	IV	2	Nitrogen Cycle	
1		I	2	Biological Nitrogen Fixation	
1	February	II	2	Mechanism of Biological Nitrogen Fixation	
	Columny	III	2	Significance	
	1000	IV	2	Revision	
		I	2	Revision	
	March	III	2	Unit test	
	Iviaicii	ш	244 61	A Manthag of the control of the cont	
		IV			

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Department of Botsny Shri Shivaji Mahavidyalaya Barahi, Dist-Solapur

2019-20

Name of the Teacher: Mr.Patil P. A.

Class: B.Sc. II Name of paper: Sem. III

Paper V: Anatomy and Taxonomy of Angiosperm

Paper VI: Plant Ecology

Sr No		Weeks	Available lectures	Theory units	Practica s
		I	2		
1	June	II	2		
		III	2	Admission Process	
		IV	2	Admission Process	
		I	2	Introduction of Syllabus	
2	July	П	2	Morphology of Inflorescence	
		III	2	Morphology of Flower	A COMPONE
		IV	2	Morphology of Fruit	3
		I	2	Study of angiosperm families Combrataceae Asclepiadaceae	
3	August	II	2	Study of angiosperm families Amaranthaceae Liliaceae	
		III	2	Ecological Adaptation: Introduction, Xeric adaptation	Wast
		IV	2	Hydric and Mesic adaptation	
		I	2	Pollution:	
	September	II	2	Introduction, Air pollution Effect and control measures of air pollution	to employed and a
1		III	2	Water pollution	
		IV	2	Effect and control measures of air pollution	-
		1	2	Revision	
5	October	II	2	Revision	
	Clober	III	2	Revision	
		IV	2	Revision	

Part P.A.

ri Shiveji Mahavidyalaya Barahi, Dist-Solapur

2019-20

Name of the Teacher: Mr. Bhise D. S.

Class: B.Sc. I

Name of paper: Sem. I Paper I: Microbiology and Phycology

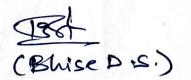
	Sr. Mo No.	nth	Weeks	Availa lectur		Theory units	Practic		
		The transfer	I						
	ı Jun	e	II			Advainsing D	The second		
	2		III			Admission Process Admission Process	the special devices		
			IV	2.5		Unit-1: Introduction of microbiology			
			I	2.5		Unit-2 Microbes 2.1 Viruses: General characters, structure			
2	July		II	2.5		classification (plant viruses)	Practica		
		I	II	2.5		economic importance of viruses.	1 to 4		
		IV						2.2 Bacteria: General characters of bacteria, structure	
3				2.5		Economic importance.			
		I	I	2.5		2.3 Mycoplasma: General characters,			
	August	III	Ī	2.5		Structure, classification and significance.	Practical		
		IV		2.5	a	Unit-3 Phycology 3.1 Introduction, general characters and classification of algae (As per Smith-1955) up to class.	5 to 8		
		I		2.5	3	.2 Economic importance of Algae	The second second		
	September	П		2.5	U	nit-4 Cyanophyta 1 General Characters	Practical		
	~ optomber	III		2.5	4.	2 Study of Nostoc – Occurrence, lassification,	9 to 12		
\perp	- 1 1 19 1	IV	2.5		allus structure and reproduction.				
		I		2.5	Uı	nit-5 Chlorophyta General Characters			
C	October	П		2.5	5.2 Cla	Study of Spirogyra - Occurrence, assification, thallus structure and roduction			
		Ш		2.5		rision	4 1 1		
		IV							

CELise D.S.)

Name of the Teacher: Mr.Bhise D. S.

Class: B.Sc. II

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals	
	November	I	2.5			
1		11	2.5	**************************************		
		III	2.5	A TO SAME AND A SAME A		
		IV	2.5	Unit 1: 1.1. Introduction		
		I	2.5	1.2. Aims and Principles of Taxonomy		
		п	2.5	Unit 2: Classification 2.1. Types of classification: Artificial, Natural and Phyllogenetic.		
2	December	Ш	2.5	2.2 Bentham and Hooker system of classification 2.3 Merits and demerits	ndshirin q	
			IV	2.5	Unit 3: Identification and nomenclature 3.1 Identification of plants 3.2 Nomenclature, Binomial nomenclature of plants	(1 ye)
	January	Ι	2.5	3.3 Principles of ICBN.		
3		II	2.5	Unit 4: Herbarium and Botanical Garden 4.1 Herbarium- Steps in preparation and significance.		
		III 2.5 4.2 Botanical gardens of India- Sir J. C. Bose Botanical Garden, Calcutta				
		IV	2.5	Lead Botanical Garden of Shivaji University Kolhapur.		
4	February	1	2.5	Unit 5: 5.1 Study of Angiosperms families Systematic position, Morphologycal& distinguishing characters with economic importance of following families:		
		II	2.5	a) Caesalpiniaceae	8	
		III	2.5	b) Solanaceae		
18		IV	2.5	c) Nyctaginaceae		
	eth e	I	2.5	d) Liliaceae		
5	March	II	2.5	Revision		
	March	III		Revision		
		IV			100	



Name of the Teacher: Dr. Gaikwad S. P.

Class: B.Sc. III

Name of paper: Sem. VI Paper XIV: Plant Metabolism

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals	
		Ι.		Vocation		
	November	п		Vocation		
1		III	3	ATP Synthesis: Introduction, Structure of ATP molecule		
		IV	3	Mechanism of ATP Synthesis, ATP synthase, Boyers confirmational model, Rackers experiment, Jagndorfs experiments		
4		I	3	Carbon Oxidation: Introduction, Glycolysis, PPP, Oxidative decarboxylase, Regulation of PDH NADH shuttle,	Practical	
2	December	II	3	TCA cycle, Mitochondria ETC, Oxidative phosphorylation,	13 to 16	
		III	3	Cynide resistant respiration		
		IV	3	Carbohydrate Metabolism: Monosaccaride		
	January	Г	3	Carbohydrate Metabolism: Oligosaccaride		
		II	3	Carbohydrate Metabolism: Polysaccaride	Practical	
3		III	3	Lipid Metabolism: Introduction and Classification	17 to 20	
		IV	3	Saturated and Unsaturated fatty acids		
	February		1	3	Fatty acid biosynthesis, Beta oxidation	
4		II	3	Gluconeogenesis during seed germination	Practical	
4		III	3	Properties of Lipid	21-24	
		IV	3	Significance of Lipid		
		I		Practical examination		
		II		Examination	1	
5	March	III		Examination		
		IV	4	Examination		
P.	April	15	9	Supervisions		

(Dr. S. P. Gariana)

Head
Department of Botany
Shri Shivaji Mahavidyalaya
Barahi, Dist-Solapur

Name of the Teacher: Dr. Gaikwad S. P.

Class: B.Sc. III

Name of paper: Sem. VI Paper XI: Plant Physiology

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals
	111111	I	3	Admission Process	
		11	3	Admission Process	
1	June	III	3	Admission Process	
ā		IV	3	Plant Water relation: Introduction	
	elgy y that	I	3	Water potential and its components Water absorption- root pressure and guttation	
•	7.1.	II	3	Ascent of sap cohesion tension theory	Practical
2	July	Ш	3	Transpiration: mechanism and factors affecting on transpiration	1to 4
		IV	3	Mineral nutrition: Introduction Macro and micro nutrients	
	August	I	3	Mineral deficiency symptoms	
3		II	3	Nutrient uptake: Introduction Soil as a nutrient reservoir	Practical
		III	3	Types of absorption	5 to 8
			IV 3	3	Phloem transport: Introduction Site of phloem transport,
		T 3 Phloem	Phloem loading and unloading Source Sink relationship		
4	September	п	3	Plant growth regulators: Introduction, types,	Practical
M		Ш	TII 3 Chemical structu	Chemical structure, physical role of Auxin, Gibberellin, cytokinin,	9 to 12
		IV	3	Chemical structure, physical role of Abscisic acid, ethylene, CCC	E
		I	3	Revision	
5	October	II	3	Revision	
J	October	III	3	Revision	
	1	IV	3	Revision	

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(br. s. P. Garner 20)

Department of Botsny Shri Shiveji Mizhavidyalaya Barahi, Disi-Solapur

Name of the Teacher: Dr.Gaikwad S. P.

Class: B.Sc. II

Name of paper: Sem. IV Paper VIII: Economic Botany

Sr. No.	Month	Weeks	Available lectures	Theory units	Practica ls
1	November	I	12 18		
		II			
		III	2	Introduction	
		IV	2	Syllabus discussion	
		I	2	Drug yielding plant: Introduction	
2	Dogombon	II	2	Zingiber officinale Withania somnifera	
2	December	III	2	Tinospora cordifolia Adathoda zeylanica	
		IV	2	Syzigium aromaticum Emblica officinalis	
	January	I	2	Natural Products: Introduction	
3		II	2	Rubber: Introduction, Property	
,		III	2	Rubber: Extraction and Economic importance	
		IV	2	Botanical Pesticides	
1	February	I	2	Plant Dyes: Wood, Bark	
4		II	2	Plant Dyes: Root and Rhizome	
4		February III	2	Ornamental Plants: Seasonal, Perennial	
		IV	2	Ornamental Plants: Cacti, Succulent and Climber	
		I	2	Revision	
	Manak	п	2	Unit test	
5	March	III			
		IV			

(br. s. P. Garhwad)

Department of Botteny Shri Shivaji Mishavidyalaye Berahi, Dist-Solapur

Name of the Teacher: Dr.Gaikwad S. P.

Class: B.Sc. II

Name of paper: Sem. IV Paper VII: Plant Physiology and Cytogenetics

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals
		I	Light South		
,	November	II			
1	November	III	2	Introduction	
		IV	2	Syllabus discussion	
		I	2	Genetics: Introduction	
2	December	II	2	Mendelian History	
2	December	III	2	Principles of inheritance	
		IV	2	Gene interaction: Complimentary, Suplimentary	
	January	I	2	Gene interaction: inhibitory	
2		II	2	Classical Genetics: Linkage	1
3		III		Significance of Linkage Crossing over: Mechanism	
		IV	2	Crossing over: break and exchange theory Significance	
	February	I	2	Multiple allelism: Introduction and definition	4-11
4		II	2	Eye colour in <i>Drosophila</i> , Blood group in man	
		III	2	self-incompatibility in plant	
		IV	2	Revision	
	March	I	2	Revision	Carriege de consens
		II	2	Unit test	
5		III		Entered of State of the State of the State of the State of State o	
		IV			

CM. S. P. Gainward)

Department of Botteny Shri Shivaji Mtahavidyalaya Barahi, Dist-Solapur

2019-20

Name of the Teacher: Dr. Gaikwad S. P.

Class: B.Sc. I Divis

Name of paper: Sem. I Paper II: Fungi and Archegoniate

Si No		Weeks	Available lectures		Practical
1		I	2.5	<u> </u>	
		II	2.5	Admission Process	-
	June	III	2.5	Admission Process	-
		IV	2.5	Unit-1 Fungi 1.1 General characters, Nutrition and classification of fungi up to class (as per Ainsworth).	
		I	2.5	1.2 Economic importance of Fungi	and the second
2	July	II	2.5	1.3 Study of Mucor - Occurrence, Thallus organization, classification and Life cycle.	
	July	III	2.5	1.4 Study of Yeast-Occurrence, Thallus organization, classification and life cycle.	
		IV	2.5	Unit 2 Archegoniate 2.1 Introduction 2.2 General characters.	
	August	I	2.5	Unit 3 Bryophytes 3.1 General characters, and Classification (as per G. M. Smith)3.2 Study of Riccia-Occurrence, classification, thallus structure	
3		II	2.5	Reproduction in <i>Riccia</i> 3.3 Economic importance of Bryophytes	
		III	2.5	Unit 4 Pteridophytes 4.1 General characters and classification up to class (as per G. M. Smith)	
		IV	2.5	4.2 Study of Selaginella Occurrence, classification, morphology of sporophyte	
	September	I	2.5	Anatomy (stem) and reproduction 4.3 Economic importance of Pteridophyte	
1		П	2.5	Unit 5 Gymnosperms 5.1 General characters and classification (As per Sporne)	
g .		III	2.5	5.2 Study of Cycas- Occurrence, classification,	at the
		IV	2.5	Morphology (Sporophyte, Corolloid root),	
		I	2.5	Reproduction of Cycas Structure of male and female reproductive structures.	
	October	п	2.5	5.3 Economical importance of Gymnosperms	
		III	1 5	Revision	
		IV			

Name of the Teacher: Dr. Gaikwad S. P.

Class: B.Sc. I

Name of paper: Sem. II Paper III: Plant Ecology

Sr. No.	Month	Weeks	Available lectures	Theory units	Practicals
		I	2.5		
		II	2.5		
1	November	III	2.5	Unit 1: Introduction 1.1. Climatic factor- Light, Temperature, Humidity, Wind & Rainfall.	
		IV	2.5	1.2. Edaphic factor- Soil formation, Soil profile,	
		I	2.5	Classification & Chemical properties of soil.	
2	December	II	2.5	Unit 2: Ecological Adaptation 2.1. Introduction. 2.2. Hydric Adaptation. 2.3. Xeric Adaptation.	
		Ш	2.5	Unit 3: Plant communities 3.1. Introduction. 3.2. Forms & structure of community.	
		IV	2.5	3.3. Classification. 3.4. Qualitative and quantitative characters of community	
		I	2.5	Unit 4: Ecosystem 4.1. Introduction.	
3	January	II	2.5	4.2. Concept & type.	
		III	2.5	4.3. Components of ecosystem.	
		IV	2.5	4.4. Ecological pyramids. 4.5. Food chain and food webs.	
	V.	I	2.5	Unit 5: Ecological succession 5.1. Introduction.	
4	February	II	2.5	5.2. Concept & process.	
		III	2.5	5.3. Hydrosere and Xerosere.	
	1	IV	2.5		
		I	2.5	Revision	
5		II	2.5	Revision	
7	March	Ш			3.0
		IV	V	36	

(Dr. J. P. Gorixwad)

Head

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