

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

TABLE-A

CURRICULUM PLAN

LECTURER-WISE

DEPARTMENT: BOTANY

CLASS: II MSc (Botany)

YEAR: 2019 – 2020.

SEMESTER - IV

PAPER- Evolution and

NAME OF THE LECTURER: P.JAGADEESWARI

Plant breeding

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY			CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not If not, alternate date	Activity	Hours Allotted	Whether conducted or not If not, alternate date		
MONTH: NOVEMBER												
1	IV	5	Origin of life and Unicellular evolution		Teaching/ practical Class	5	<i>Conducted</i>					
2	V	5+3	Concept of Oparin and Haldane, Floral biology		Teaching/ practical Class	5+3	<i>Conducted</i>		<i>Seminar</i>			
MONTH: DECEMBER												
1	I	5+3	Evolution of prokaryotes and eukaryotes, floral biology		Teaching/ practical Class	5+3	<i>Conducted</i>					
2	II	5+3	Theories of organic evolution – Darwinism, Synthetic theory, Pollination mechanism.		Teaching/ practical Class	5+3	<i>conducted</i>		<i>Assignment</i>			
3	III	5+3	Molecular evolution – Concepts of neutral evolution, Pollination mechanism.		Teaching/ practical Class	5+3	<i>Conducted</i>					

4	IV	3	Natural Selection; Reproductive isolation – types and species concept, I mid examination.		Teaching/ practical Class	3	Conducted							
5	V	1	I mid examination		Teaching/ practical Class	1	Conducted	Seminar						

MONTH: JANUARY

1	I	4	Hardy Weinberg equilibrium and application. Polygenic inheritance		Teaching/ practical Class	4	Conducted	Assignment						
2	II	5+3	Measures of central tendency and dispersion, Breeding techniques.		Teaching/ practical Class	5+3	Conducted							
3	III	5+3	Pongal holidays.		Teaching/ practical Class	0	-							
4	IV	5+3	Graphical representation Probability distributions (Binomial, Poisson and Normal distributions)		Teaching/ practical Class	5+3	Conducted	S						
5	V	2+3	Types of error, Breeding techniques.		Teaching/ practical Class	2+3	Conducted							

MONTH: FEBERUARY

1	I	5+3	Levels of significance, Plant introduction		Teaching/ practical Class	5+3	Conducted	Assignment						
2	II	5+3	II MID EXAMINATION, evolution of wheat and maize.		Teaching/ practical	5+3	Not done	25-2-2019 27-2-2019						

					Class									
3	III	5+3	Methods of breeding self and cross pollinated plants. Assignment on theory topics.		Teaching/ practical Class	5+3	<i>Conducted</i>							
4	IV	5+3	Breeding of vegetatively propagated crops. Assignment on theory topics		Teaching/ practical Class	5+3	<i>Conducted</i>							
MONTH: MARCH														
1	I	5+3	Hybrid Vigour – genetic basis and significance. Assignment on theory topics.		Teaching/ practical Class	5+3								
2	II	5+3	REVISION		Teaching/ practical Class	5+3								

P. J. Jugal

SIGNATURE OF THE LECTURER

P. J. Jugal

SIGNATURE OF THE HEAD OF THE
DEPARTMENT

M. K. Verma

SIGNATURE OF THE PRINCIPAL

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM
CURRICULUM PLAN

DEPARTMENT: BOTANY

TABLE-A

CLASS: III BZC

YEAR: 2019 – 2020

SEMESTER – V PAPER : PLANT ECOLOGY & PHYTOGEOGRAPHY

NAME OF THE LECTURER: M.RAJESWARI

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: JUNE													
1	II	3	Ecology: definition, branches and significance of ecology		Teaching Class	3	Completed						
2	III	3	Climatic Factors: Light, Temperature, precipitation		Teaching Class	3	Completed						
3	IV	3	Edaphic Factor: Origin, formation, composition of soil and soil profile		Teaching Class	3	Completed						
MONTH: JULY													
1	I	2	Biotic Factor: Interactions between plants and animals.	different soils, studying their	Teaching Class	1	Completed		QUIZ	1			
2	II	3	Ecosystem: Concept and components, energy flow, Food chain, Food web, Ecological pyramids.		Teaching Class	3	Completed						

3	III	3	Productivity of ecosystem-Primary, Secondary and Net productivity		Teaching Class	3	Concluded						
4	IV	3	Biogeochemical cycles- Carbon, Nitrogen and Phosphorous		Teaching Class	3	Concluded						
5	V	2	Population -definition, characteristics		Teaching Class	2	Concluded	Assignment					

MONTH:AUGUST

1	I	3	Importance, outlines –ecotypes.	Student study projects.	Teaching Class	3	Concluded						
2	II	3	Plant communities- characters of a community, outlines		Teaching Class	3	Concluded						
3	III	2	Frequency, density, cover, life forms, competition.		Teaching Class	1	Concluded	Seminar	I				
4	IV	3	Interaction between plants growing in a community		Teaching Class	3	Concluded						
5	V	3	Plant succession (Hydrosere and Xerosere)		Teaching Class	3	Concluded						
1	I	3	Principles of Phytogeography, Distribution (Endemic and discontinuous species)	Visiting a nearest natural vegetation area	Teaching Class	3	Concluded						
2	II	3	Phytogeographic regions of India.		Teaching Class	3	Concluded						
3	III	3	Phytogeographic regions of World.		Teaching Class	3	Concluded						

4	IV	2	Endemism – types and causes		Teaching Class	1	Conducted		Group discussion	1			
5	V	3	Definition, levels of biodiversity-genetic, species and ecosystem		Teaching Class	3	Conducted						
MONTH: OCTOBER													
1	I	3	Biodiversity hotspots- Criteria, Biodiversity hotspots of India, Loss of biodiversity		Teaching Class	3	Conducted						
2	II	0	DASARAHOLIDAYS		Teaching Class	3							
3	III	3	Loss of biodiversity, Role of UNDP, UNEP and NBA in conservation of biodiversity		Teaching class	3	Conducted						


SIGNATURE OF THE LECTURER


SIGNATURE OF THE HEAD OF THE DEPARTMENT


SIGNATURE OF THE PRINCIPAL

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

TABLE-A

CURRICULUM PLAN

DEPARTMENT: BOTANY

CLASS: II BZC

YEAR: 2019 – 2020

SEMESTER – III PAPER:- II - PLANT TAXONOMY AND EMBRYOLOGY

NAME OF THE LECTURER: M.RAJESWARI

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: JUNE													
1	II	3	Fundamental components of taxonomy identification,		Teaching Class	4	Completed						
2	III	4	Fundamental components of taxonomy nomenclature,		Teaching Class	4	Completed						
3	IV	4	Fundamental components of taxonomy classification		Teaching Class	4	Completed						
MONTH: JULY													
1	I	4	Taxonomic resources: Herbarium		Teaching Class	4	Completed						
2	II	3	Botanical gardens, Flora, Keys- single access and multi-access.		Teaching Class	4	Completed						
3	III	3	Botanical Nomenclature- Principles		Teaching Class	2	Completed	Group discussion	1				

4	IV	4	Rules of ICBN			4	Completed						
5	V	4	Types of classification- Artificial, Natural and Phylogenetic.		Teaching Class	4	Completed						

MONTH: AUGUST													
1	I	4	Bentham & Hooker's system of classification- merits and demerits.	Observing pollen grains in honey	Teaching Class	4	Completed						
2	II	3	Engler & Prantle's system of classification- merits and demerits		Teaching Class	4	Completed						
3	III	3	Phylogeny – origin and evolution of Angiosperms		Teaching Class	2	Completed		Seminar	1			
4	IV	4	APG System of Classification (2016)		Teaching Class	4	Completed						
5	V	3	Systematic study and economic importance of following families Annonaceae, Brassicaceae, Malvaceae, Rutaceae,		Teaching Class	4	Completed						
MANTH : SEPTEMBER													
1	I	4	Systematic study and economic importance of the following families Curcubitaceae, and Apiaceae.	collection of pollen	Teaching Class								
2	II	3	Systematic study and economic importance of the following families Asteraceae, Asclepiadaceae, Lamiaceae, Euphorbiaceae, Arecaceae, and Poaceae.		Teaching Class	4	Completed						
3	III	4	Systematic study and economic importance of the following families Euphorbiaceae, Arecaceae, and Poaceae.		Teaching Class	4	Completed						

4	IV	3	Anther structure, microsporogenesis and development of male gametophyte.	Teaching Class	2	Completed	Quiz	1				
5	V	4	Types of Ovules and Female gametophyte development; Monosporic, Bisporic and Tetrasporic types (<i>Peperomia, Drusa, Adoxa</i>) of embryo sacs.		4	Completed						
MONTH: OCTOBER												
1	I	3	Pollination and Fertilization (out lines) Endosperm development and types.	Teaching Class	2	Completed	Assignment	1				
2	II	0+0	DASARA HOLIDAYS		0							
3	III	4	Pollination and Fertilization (out lines) Endosperm types.	Teaching class	4	Completed						


SIGNATURE OF THE LECTURER


SIGNATURE OF THE HEAD OF THE DEPARTMENT


SIGNATURE OF THE PRINCIPAL

V.S.M.COLLEGE, RAMACHANDRAPURAM.

TABLE – A - CURRICULUM PLAN – LECTURER – WISE

DEPARTMENT: :BOTANY

paper-I

NURSERY GARDENING AND FLORICULTURE

CLASS III B.Sc(CBZ)

NAME OF THE LECTURER: A.VENKATA LAKSHMI M.SC B.Ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	
MONTH: NOVEMBER											YEAR: 2019-20		
1	2nd WEEK	4+2	definition and objectives to infra structure	ppt	Teaching Class Practical	4+2	Conducted						
2	3rd WEEK	3+2	planning and seasonal activities	ppt	Teaching Class Practical	4+2	Yes						
3	4th WEEK	4+2	nursery management	ppt	Teaching Class Practical	4+2	Yes						
MONTH: DECEMBER											YEAR: 2019-20		
	1 ST WEEK	4+2	definition objective scope of gardening	ppt	Teaching Class Practical		Yes						
	2 ND WEEK	3+2	land scape	Charts	Teaching Class Practical	4+2	Yes		14/12/2019	Work shop			
	3 RD WEEK	4+2	computer applications in land scape	Charts	Teaching Class Practical	4+2	Yes						
	4 TH WEEK	4+2	gardening operations	Charts	Teaching Class Practical	4+2	Yes						
MONTH: JANUARY											YEAR: 2019-20		
	1 ST WEEK	3+2	ornamental plants and bulbs	Charts	Teaching Class Practical	4+2	Yes			Seminar	1		
	2 ND WEEK	3+2	ornamental pot plants	Computer System with LCD Projector	Teaching Class Practical	4+2	Yes						

3 RD WEEK	4+0	PONGAL HOLIDAYS	Computer System	Teaching Class	4+2								
4 TH WEEK	3+2	factors effecting flower production	Charts	Teaching Class Practical	4+2	Yes							

MONTH: FEBRUARY

YEAR: 2019-20

1 ST WEEK	4+2	land scape places of public importance	Charts	Teaching Class Practical	4+2	Yes							
2 ND WEEK	3+2	sowing of seeds	Computer System with LCD Projector	Teaching Class Practical	4+2	Yes							
3 RD WEEK	4+2	vegitative propagation air layering ,cutting ...etc	Charts	Teaching Class Practical	4+2	Yes							
4 TH WEEK	0	propagation of arnamental		Teaching Class Practical	4+2	Yes							

MONTH: MARCH

YEAR: 2019-20

1 ST WEEK	4+2	cultivation of cut flowers to harvesting	Computer System with LCD Projector	Teaching Class Practical	4+2	Yes							
2 ND WEEK	3+2	REVISION											
3 RD WEEK		Semister and practical exams											
4 TH WEEK		SEMISTER END THEORY EXAMS											

A. Venkata Lakshmi.
signature of the lecturer

P. Jyandeen
signature of the HOD

M. J. ...
signature of the Principal

V.S.M.COLLEGE,RAMACHANDRAPURAM.

TABLE - A - CURRICULUM PLAN - LECTURER - WISE

DEPARTMENT: :BOTANY

paper-II

DIVERSITY OF ARCHEGONITES AND PLANT ANATOMY

CLASS I B.Sc(CBZ)

NAME OF THE LECTURER:A.VENKATA LAKSHMI M.SC .BED

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS /VALUES ADDITION	CURRICULAR ACTIVITY			CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	
MONTH: NOVEMBER											YEAR ; 2019-2020	
1	2 nd WEEK	4+2	General characters of brayophytes classification			4+2	Conducted					
2	3rd WEEK	3+2	structure and reproduction and life history of marchantia	ppt	Teaching Class Practical	4+2	Conducted					
3	4th WEEK	4+2	structure and reproduction and life history of funeria	ppt	Teaching Class Practical	4+2	Conducted					
MONTH: DECEMBER											YEAR;2019-2020	
	1 ST WEEK	4+2	evaluation of sprophyte	ppt	Teaching Class Practical		Conducted					
	2 ND WEEK	3+2	general characters of pterodophyta	Charts	Teaching Class Practical	4+2	Conducted	14/7/2018	Work shop			

3 RD WEEK	4+2	meristems	Charts	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	0	tissue and tissucs systems		Teaching Class Practical	4+2	Conducted							

MONTH: MARCH

YEAR: 2019-20

1 ST WEEK	4+2	secondary growth	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
2 ND WEEK	3+2	REVISION											
3 RD WEEK		Semister and practical exams											
4 TH WEEK		SEMIST ER END THEOR Y EXAMS											

A. Venkata Lakshmi
signature of the lecturer

P. Sridhar
signature of the HOD

M. V. S. Rao
signature of the Principal

V.S.M.COLLEGE, RAMACHANDRAPURAM.

TABLE - A - CURRICULUM PLAN - LECTURER - WISE

DEPARTMENT: :BOTANY

paper-VIII-A-3

PHARMACOGNOSY AND PHYTOCHEMISTRY

CLASS III B.Sc(CBZ)

NAME OF THE LECTURER: A.VENKATA LAKSHMI M.SC B.Ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER DATE	
MONTH: NOVEMBER											YEAR: 2019-20		
1	2nd WEEK	4+2	Importents of phanomocognsy			4+2	Conducted						
2	3rd WEEK	3+2	classificati on of drugs	ppt	Teaching Class Practical	4+2	Conducted						
3	4th WEEK	4+2	drug evulation methods	ppt	Teaching Class Practical	4+2	Conducted						
MONTH: DECEMBER											YEAR: 2019-120		
	1 ST WEEK	4+2	alstoniasc hlaris ,adhatoda vasica	ppt	Teaching Class Practical		Conducted						
	2 ND WEEK	3+2	strychnosn ux vomica,ra uwolfia	Charts	Teaching Class Practical	4+2	Conducted	14/12/2019 Work shop	4+2	Conducted			
	3 RD WEEK	4+2	zinziber officinalis, catharanth us roseus	Charts	Teaching Class Practical	4+2	Conducted						
	4 TH WEEK	4+2	primary metabolite s,secondar y metabolite s	Charts	Teaching Class Practical	4+2	Conducted						
MONTH: JANUARY											YEAR: 2019-20		

1 ST WEEK	3+2	alkaloids	Charts	Teaching Class Practical	4+2	Conducted		Seminar	1				
2 ND WEEK	3+2	glicocides	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
3 RD WEEK	4+0	flavonoids and steroids	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	3+2	commerci al importanc e of steriols	Charts	Teaching Class Practical	4+2	Conducted							

MONTH: FEBRUARY

YEAR: 2019-20

1 ST WEEK	4+2	volatile oils ,aromother apy	Charts	Teaching Class Practical	4+2	Conducted							
2 ND WEEK	3+2	vaccins and toxins	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
3 RD WEEK	4+2	vitamins	Charts	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	0	phormog nal actions of plant drugs		Teaching Class Practical	4+2	Conducted							

MONTH: MARCH

YEAR: 2019-20

1 ST WEEK	4+2	role of different enzymes inhibitors	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
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2 ND WEEK	3+2	REVISION											
3 RD WEEK		Semister and practical exams											
4 TH WEEK		SEMIST ER END THEOR Y EXAMS											

A.Venkata lakshmi.
signature of the lecturer

P. Indumathi
signature of the HOD

M. J. Prasad
signature of the Principal

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

TABLE-A

CURRICULUM PLAN

DEPARTMENT: BOTANY

CLASS: I BZC

YEAR: 2019 – 2020

SEMESTER – I

PAPER- I, MICROBIAL DIVERSITY , ALGAE AND FUNGI

NAME OF THE LECTURER: A . VENKATA LAKSHMI

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: JUNE													
4	IV	4	.Discovery of microorganisms, origin of life, spontaneous, biogenesis, pesteur experiments ,germ theory of disease.		Teaching Class	4	Conducted						
MONTH: JULY													
1	I	4	Classification of microorganisms-R.H. Whittakers five kingdom concept, carl WOESES-Domain system		Teaching Class	4	Conducted						
2	II	4	. Archaibacteria, Micoplasma, Chlamydia		Teaching Class	3	Conducted						
3	III	4	Actinomycets, Rickettsias and Cyanobacteria		Teaching Class	3	Conducted	Assigsnment	1				
4	IV	3	Viruses-Discovery, general account, structure and Replication of- T ₄ phage		Teaching Class	4	Conducted						
5	V	3	Plant diseases caused by viruses symptoms, transmission and control measures		Teaching Class	3	Conducted						

3	III	4	Lichens-structure and reproduction; ecological and economic importance		Teaching class	4	Yes							
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A. Venkata lakshmi.
SIGNATURE OF THE LECTURER

P. Zydeem
SIGNATURE OF THE HEAD OF THE DEPARTMENT

M. Karan
SIGNATURE OF THE PRINCIPAL

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

TABLE-A

CURRICULUM PLAN

DEPARTMENT: BOTANY

CLASS: II BZC

YEAR: 2019 – 2020

SEMESTER –V

PAPER - Cell biology , Genetic and Plant breeding.

NAME OF THE LECTURER: P.JAGADEESWARI

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: JUNE													
1	II	3	Cell, the unit of life- Cell theory, Prokaryotic and eukaryotic cells; Eukaryotic cell components		Teaching Class	3	Conducted						
2	III	3	Ultra structure and functions of cell wall and cell membranes.		Teaching Class	3	Conducted						
3	IV	3	Chromosomes: morphology, organization of DNA in a chromosome..		Teaching Class	3	Conducted						
MONTH: JULY													
1	I	3	Euchromatin and heterochromatin. DNA as the genetic material: Griffith's and Avery's transformation experiment,.	Observation of live cells.	Teaching Class	3	Conducted						
2	II	3	Hershey – Chase bacteriophage experiment. DNA structure (Watson & Crick model)		Teaching Class	3	Conducted						
3	III	3	Replication of DNA (semi-conservative)		Teaching Class	3	Conducted						

4	IV	3	Types of RNA (mRNA, t RNA, r RNA), their structure and function		Teaching Class	2	Conducted		Assignment	1			
5	V	1	Mendel's laws of Inheritance (Mono- and Di- hybrid crosses).		Teaching Class	1	Conducted						

MONTH: AUGUST

1	I	2	Backcross and test cross	Observation of mitosis in maize pollen	Teaching Class	3	Conducted						
2	II	3	Chromosome theory of Inheritance		Teaching Class	2	Conducted	Assignment	1				
3	III	3	Linkage: concept, complete and incomplete linkage, coupling .		Teaching Class	3	Conducted						
4	IV	3	Repulsion., linkage maps based on two and three factor crosses.		Teaching Class	3	Conducted						
5	V	3	Crossing Over: concept & significance		Teaching Class	2		Guest Lecture	1				

MONTH: SEPTEMBER

1	I	3	Introduction and Objectives of plant breeding.	Hybridization techniques	Teaching Class	3	Conducted						
2	II	2	Methods of crop improvement: Procedure, advantages and limitations		Teaching Class	3	Conducted						
3	III	1	Introduction, Selection, and Hybridization.		Teaching Class	2	Conducted	Quiz	1				
4	IV	3	Role of mutations in crop improvement		Teaching Class	3	Conducted	Assignment					

MONTH: OCTOBER

1	I	3	Role of somoclonal variations in crop improvement.		Teaching Class	2	Conducted	Classroom Seminars	1				
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2	II	0	DASARA HOLIDAYS										
3	III	3	Molecular breeding – use of DNA markers in plant breeding and crop improvement (RAPD, RFLP).		Teaching Class	3	conducted						

P. Jagadeen
SIGNATURE OF THE LECTURER

P. Jagadeen
SIGNATURE OF THE HEAD OF THE DEPARTMENT

M. Kiran
SIGNATURE OF THE PRINCIPAL

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

TABLE-A
DEPARTMENT: BOTANY
YEAR: 2019-2020

CURRICULUM PLAN

SEMESTER -IV PAPER- GENETIC ENGINEERING OF PLANTS AND MICROBES

LECTURER-WISE
CLASS: IIMSC

NAME OF THE LECTURER: M.SOUNDARYA

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: DECEMBER													
1	I	5+3	Basics of rDNA technology: Restriction enzymes: Types, Nomenclature. Mechanism of action: Methodology of rDNA molecule synthesis: Antibiotic resistance.		Teaching Class	4+3	Conducted						
2	II	5+3	Polylinkers. Vectors: Features and types: Cloning vectors - Plasmids, Viral DNA, Cosmids, Artificial chromosomes.		Teaching Class	2	Conducted						
3	III	5+3	Bacterial and Yeast artificial chromosomes(BACs and YACs); Expression vectors.		Teaching Class	2	Conducted						
4	IV	5+3	Bacterial transformation. <i>In-vitro</i> packaging, Recognition of transformants.		Teaching Class	3	Conducted						
5	V	1+3	Lac Z gene based selection. Genomic library, cDNA library.		Teaching Class	1+1	Conducted						
MONTH: JANUARY													
1	I	4	Blotting techniques: Southern. Northern and Types and Applications of PCR technique. Whole genome. Shot gunsequencing.		Teaching Class	3	Conducted		Assignment	1	Conducted		

3	III	4+3	.PCRtechnique.sequencing.genomes, Wholegenome,shot gun sequencing.		Teaching/ practical Class	4+3	Conducted						
4	IV	4+3	Basic principle pf sanger's method,sequencing genomes Automated DNA sequencing,High throughput DNA sequencing.		Teaching/ practical Class	4+3	Conducted	SEMINARS	1	Conducted			
5	V		IMID EXAMINATIONS		Teaching/ practical Class		Conducted						

MONTH: JANUARY

1	I	4+3	DNAfingerprinting:RFLP,AFLP,RAPD;Chromosome mapping,QTL mapping analysis.		Teaching/ practical Class	4+3	Conducted	QUIZ	1	Conducted			
2	II	4+3	DNA markers,Microarry and its applications.		Teaching/ practical Class	4+3	Conducted						
3	III		Pongal holidays		Teaching/ practical Class		8						
4	IV	4+3	Methods of gene transfer in plants;physical and biological methods.		Teaching/ practical Class	4+3	Conducted	Assignment	1	Conducted			
5	V	4+3	Agrobacterium mediated Binary and co integrative vector based. Chloroplast transformation.		Teaching/ practical Class	4+3	Conducted						

MONTH: FEBERUARY

1	I	4+3	Transgenic plants; fungal bacterial, viral and insect tolerant transgenics. Herbicide tolerate, Abiotic stress tolerate, Male sterility; Barnase-Barstar		Teaching/ practical	4+3	Conducted						
2	II	4+3	Quality improvement; Golden rice, Late ripening tomatoes.		Teaching/ practical Class	4+3	Conducted						
3	III	4+3	Biopesticides, Biofertilizers and Antibiotics.		Teaching/ practical Class	4+3	Conducted	Assignment		Conducted			
4	IV	4+3	Applications of genetic engineering and their importance. IPRs, Ethical and Environmental issues		Teaching/ practical Class	4+3	Conducted						
5	V		IIMID EXAMINATIONS				Conducted						
MONTH: MARCH													
1	I		RIVISION										
2	II		SEM END EXAMS				Conducted						


SIGNATURE OF THE LECTURER


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TABLE – A - CURRICULUM PLAN – LECTURER – WISE

DEPARTMENT: :BOTANY

paper-PG1912101

CRYPTOGAMS AND GYMNOSPERMS

I MSC BOTANY

NAME OF THE LECTURER: M.SOUNDARYA M.SC

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	
MONTH: JULY													YEAR: 2019-2020
	2 ND WEEK	3+2	General account, Criteria employed in Classification. Classification given by Fritsch	ppts	Teaching Class Practical	4+2	yes						
	3 RD WEEK	4+2	Range of Thallus structure , reproduction and life and special referces with chlorophyceae members	PPTS	Teaching Class Practical	4+2	yes						
	4 TH	4+2	Economic importance of algae	ppts	Teaching	4+2	yes						
AUGUST													YEAR: 2019-2020
MONTH:	1 ST WEEK	3+2	General account, of Bryophytes,classification, general characters	ppts	Teaching Class Practical	4+2	Conducted		Seminar	1	Conducted		
	2 ND WEEK	3+2	Range of thallus organization and reproduction in Riccia,Porella,Anthoceros and Polytrichum.	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted						
	3 RD WEEK	4+0	Evolutionary trends in gametophytes and sporophytes of Bryophytes.	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted						

	4 TH WEEK	3+2	Ecological and Economic importance	ppts	Teaching Class Practical	4+2	Conducted									
SEPTEMBER													YEAR: 2019-2020			
MONTH:	1 ST WEEK	4+2	General characters and classification of Pteridophytes.	ppts	Teaching Class Practical	4+2	Conducted									
	2 ND WEEK	3+2	Salient features of Psilotum	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted									
	3 RD WEEK	4+2	Selaginella , Equisetum and Gleichenla. Origin and phylogeny of pteridophytes - Stellar Evolution,	ppts	Teaching Class Practical	4+2	Conducted	QUIZ	1	Conducted						
	4 TH WEEK	3+2	Heterospory and seed habit. Economic importance of Pteridophytes.		Teaching Class Practical	4+2	Conducted									
OCTOBER													YEAR: 2019-2020			
MONTH:	1 ST WEEK	4+2	General account and classification of Gymnosperms Geological periods, fossil	ppts	Teaching Class Practical	4+2	Conducted									
	2 ND WEEK	3+2	formation and their types. General account of Pteridospermales, Bennettiales, Pentoxylales, Cordaitales. Structure and Reproduction of living Gymnosperms: Ginkgo and Ephedra; their economic importance	ppts	Teaching Class Practical	4+2	Conducted									
	3 RD		II MID EXAMS				Conducted									
	4 TH		SEMISTER END THEORY EXAMS													


signature of the lecturer


signature of the HOD


signature of the Principal

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

CURRICULUM PLAN

LECTURER-WISE

TABLE-A
DEPARTMENT: BOTANY
YEAR: 2019-2020

SEMESTER - II

PAPER- PLANT DEVELOPMENT AND EMBRYOLOGY

CLASS: IMSC

NAME OF THE LECTURER: M.SOUNDARYA

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: DECEMBER													
1	I	5+3	Introduction- of Plant development, Plant cell cycle- Endoreduplication and control of plant cell size.		Teaching Class	4+3	Conducted						
2	II	5+3	Plant Cell Division and Expansion.		Teaching Class	2	Conducted						
3	III	5+3	Theories of Organization of meristems; Root growth and Development.		Teaching Class	2	Conducted						
4	IV	5+3	Plant Architecture, Root apical meristem (RAM); Tissue Differentiation.		Teaching Class	3	Conducted						
5	V	1+3	Root hair and Lateral roots formation.		Teaching Class	1	Conducted						
MONTH: JANUARY													
1	I	4	Stem growth and development: organization of the shoot apex.		Teaching Class	3	Conducted		Assignment	1	Conducted		
2	II	5+3	cytological and molecular analysis of shoot apical meristems.		Teaching Class	2	Conducted						
3	III	5+3	Development and Anatomy of flower,		Teaching Class	3	Conducted		Mid-I				

			including transition to Flowering and reproductive shoot apex.										
4	IV	5+3	Leaf and flower development: Development of leaf and Phyllotaxy.		Teaching Class	1	Conducted						
5	V	5+3	specialized cells and tissue differentiation		Practical Class	3	Conducted						

MONTH: FEBRUARY													
1	I	5+3	Reproduction and Flower: Vegetative options and reproduction; Genes controlling floral organ Differentiation.		Teaching Class	3	Conducted						
2	II	5+3	Male Gametophyte: Structure of Anther, Microsporogenesis, Role of Tapetum.		Teaching Class	2	Conducted	Assignment	1	Conducted			
3	III	5+3	Pollen development, Pollen germination, Pollen tube growth and Guidance; Pollen storage.		Teaching Class	2	Conducted	QUIZ	1	Conducted			
4	IV	5+3	Female Gametophyte: Ovule- Structure and development; Megasporogenesis; Development and Organization of the mature Embryo sac. Structure of the Embryo sac cells; Embryo sac haustoria.		Teaching Class	2	Conducted	Assignment	1	Conducted			

MONTH: MARCH													
1	I	5+3	Fertilization, Seed and Fruit Development: Pollination mechanisms and Vectors; Structure of the Pistil; Pollen- Stigma Interactions.	-	Teaching Class	3	Conducted						
2	II	5+3	Embryogenesis-Dicot types Embryology.		Teaching Class	1	Conducted	Mid-II					
3	III	5+3	Sporophytic and Gametophytic Self-		Teaching	2	Conducted	Quiz	1	Conducted			

			Incompatibility; Double Fertilization.		Class							
4	IV	5+3	Endosperm development; Types of Endosperm; Functions;		Teaching Class	3	Conducted		Assignment	1	Conducted	
5	V	5+3	Monocot embryo; Polyembryony; Apomixis; Parthenocarpy, Dynamics of Fruit growth and Seed Development. Outlines of Experimental Embryology.		Teaching Class	1	Conducted					
MONTH: APRIL												
1	I				Teaching Class	2			Classroom Seminars	1	Conducted	
2	II				Teaching Class	1			Classroom Seminars	1	Conducted	


SIGNATURE OF THE LECTURER


SIGNATURE OF THE HEAD OF THE DEPARTMENT


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V.S.M.COLLEGE, RAMACHANDRAPURAM.

TABLE – A - CURRICULUM PLAN – LECTURER – WISE

DEPARTMENT: :BOTANY

paper-II

DIVERSITY OF ARCHEGONITES AND PLANT ANATOMY

CLASS I B.Sc(CBZ)

NAME OF THE LECTURER: M.RAJESWARI M.SC B.Ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	
MONTH: NOVEMBER													YEAR: 2017-18
1	2 nd WEEK	4+2	General characters of brayophytes classification			4+2	Conducted						
2	3rd WEEK	3+2	structure and reproduction and life history of marchantia	ppt	Teaching Class Practical	4+2	Conducted						
3	4th WEEK	4+2	structure and reproduction and life history of funeria	ppt	Teaching Class Practical	4+2	Conducted						

MONTH: DECEMBER

YEAR: 2017-18

1 ST WEEK	4+2	evaluation of spropyhte	ppt	Teaching Class Practical									
2 ND WEEK	3+2	general characters of pterodoph yta	Charts	Teaching Class Practical	4+2	Conducted		14/7/2017 Work shop					
3 RD WEEK	4+2	I MID EXAMS, structure and reproducti onlife history of lychopodi um	Charts	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	4+2	structure and reproducti onlife history of marsilia	Charts	Teaching Class Practical	4+2	Conducted							

MONTH: JANUARY

YEAR: 2017-18

1 ST WEEK	3+2	sterlar evaluation,	Charts	Teaching Class Practical	4+2	Conducted		Seminar	1				
2 ND WEEK	3+2	seed habit and hetirospor e	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							

3 RD WEEK	4+0	PONGAL HOLIDA YS,genera l characters of gymnospe rms	Computer System with LCD Projector	Teaching Class Practical	4+2								
4 TH WEEK	3+2	pinus	Charts	Teaching Class Practical	4+2	Conducted							

MONTH: FEBRUARY

YEAR: 2017-18

1 ST WEEK	4+2	II MID, structure and reproducti onlife history of gnetum	Charts	Teaching Class Practical	4+2	Conducted							
2 ND WEEK	3+2	economic importanc e of gmnosper ms	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
3 RD WEEK	4+2	meristems	Charts	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	0	tissue and tissues systems		Teaching Class Practical	4+2	Conducted							

MONTH: MARCH

YEAR: 2017-18

1 ST WEEK	4+2	secondary growth	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
2 ND WEEK	3+2	REVISION											
3 RD WEEK		REVISION											
4 TH WEEK		THEORY EXAMS											

MONTH: APRIL

YEAR: 2017-18

1 ST WEEK		THEORY EXAMS											
2 ND WEEK		PRACTIC AL EXAMIN ATIONS				Conducted							
3 RD WEEK		PRACTIC AL EXAMIN ATIONS				Conducted							
4 TH WEEK		SUMME R VACTIO N											

M. Raju

P. Indrakumar

N. Kumar

V.S.M.COLLEGE, RAMACHANDRAPURAM.

TABLE – A - CURRICULUM PLAN – LECTURER – WISE

DEPARTMENT: :BOTANY

paper-II

DIVERSITY OF ARCHEGONITES AND PLANT ANATOMY

CLASS I B.Sc(CBZ)

NAME OF THE LECTURER: M.RAJESWARI M.SC B.Ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATE DATE	
MONTH: NOVEMBER													YEAR: 2017-18
1	2 nd WEEK	4+2	General characters of brayophytes classification			4+2	Conducted						
2	3rd WEEK	3+2	structure and reproduction and life history of marchantia	ppt	Teaching Class Practical	4+2	Conducted						
3	4th WEEK	4+2	structure and reproduction and life history of funeria	ppt	Teaching Class Practical	4+2	Conducted						

MONTH: DECEMBER

YEAR: 2017-18

1 ST WEEK	4+2	evaluation of sprophyte	ppt	Teaching Class Practical		Conducted							
2 ND WEEK	3+2	general characters of pterodoph yta	Charts	Teaching Class Practical	4+2	Conducted		14/7/2017 Work shop					
3 RD WEEK	4+2	I MID EXAMS, structure and reproducti onlife history of lychopodi um	Charts	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	4+2	structure and reproducti onlife history of marsilia	Charts	Teaching Class Practical	4+2	Conducted							

MONTH: JANUARY

YEAR: 2017-18

1 ST WEEK	3+2	sterlar evaluation,	Charts	Teaching Class Practical	4+2	Conducted		Seminar	1				
2 ND WEEK	3+2	seed habit and hetrospor e	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							

3 RD WEEK	4+0	PONGAL HOLIDAYS, general characters of gymnosperms	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	3+2	pinus	Charts	Teaching Class Practical	4+2	Conducted							

MONTH: FEBRUARY

YEAR: 2017-18

1 ST WEEK	4+2	II MID, structure and reproduction life history of gnetum	Charts	Teaching Class Practical	4+2	Conducted							
2 ND WEEK	3+2	economic importance of gymnosperms	Computer System with LCD Projector	Teaching Class Practical	4+2	Conducted							
3 RD WEEK	4+2	meristems	Charts	Teaching Class Practical	4+2	Conducted							
4 TH WEEK	0	tissue and tissues systems		Teaching Class Practical	4+2	Conducted							

MONTH: MARCH

YEAR: 2017-18

1 ST WEEK	4+2	secondary growth	Computer System with LCD Projector	Teaching Class Practical	4+2	conducted							
2 ND WEEK	3+2	REVISION											
3 RD WEEK		REVISION											
4 TH WEEK		THEORY EXAMS											

MONTH: APRIL

YEAR: 2017-18

1 ST WEEK		THEORY EXAMS				conducted							
2 ND WEEK		PRACTIC AL EXAMIN ATIONS				conducted							
3 RD WEEK		PRACTIC AL EXAMIN ATIONS				conducted							
4 TH WEEK		SUMME R VACTIO N											

H. Raju

P. Sridharan

M. Venkatesh

V.S.M.COLLEGE(A) :: RAMACHANDRAPURAM

TABLE-A

DEPARTMENT: BOTANY

YEAR: 2017 – 2018

CURRICULUM PLAN

SEMESTER - II

LECTURER-WISE

CLASS: IMSC

PAPER- 202;Molecular biology

NAME OF THE LECTURER: M SOUNDARYA ;Msc

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: DECEMBER													
1	IV	4+3	Carbohydrates, Lipids and Proteins (Ramachandran plot, secondary structures, domains, motifs and folds).		Teaching/practical Class	4+3	Conducted		ClassRoom Seminar	1	Conducted		
2	V	4+3	Nucleic acids : DNA structure and duplex model. A, B and Z forms of DNA. Types of small RNAs – Si RNA, micro RNA and catalytic RNA		Teaching/practical Class	4+3	Conducted						
MONTH: JANUARY													
1	I	2	DNA replication, Semi-conservative, Semi-discontinuous and uni and bi directional mode of replication.		Teaching/practical Class	2	Conducted						
2	II	4+3	DNA replication, Semi-conservative, Semi-discontinuous and uni and bi directional mode of replication.		Teaching/practical Class	4+3	Conducted		Assignment	1	Conducted		

2	II	4+3	Regulation in Viruses : Lytic and Lysogenic cycle. Regulation of gene expression in Eukaryotes.		Teaching/ practical Class	4+3	Conducted						
3	III	4+3	Britten Davidson model. Role of chromatin in gene expression.		Teaching/ practical Class	4+3	Conducted						
4	IV	4+3	DNA methylation. Temporal and spatial regulation. Gene silencing		Teaching/ practical class	4+3	Conducted	Assignment	Conducted				
5	V		IIMID EXAMINATIONS										
MONTH: APRIL													
1	I		RIVISION										
2	II		SEM END EXAMS										


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TABLE-A

CURRICULUM PLAN

LECTURER-WISE

DEPARTMENT: BOTANY

CLASS: IMSC

YEAR: 2017 – 2018

SEMESTER - II

PAPER- 204;plant cell, tissue and organ culture

NAME OF THE LECTURER:M SOUNDARYA

Serial Number	Week	Hours Available	SYLLABUS TOPIC	Additional Inputs/ Values Addition	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				Remarks
					Activity	Hours Allotted	Whether conducted or not	If not, alternate date	Activity	Hours Allotted	Whether conducted or not	If not, alternate date	
MONTH: NOVEMBER													
1	IV	4+3	Clonal propagation, Artificial seeds and its applications, Tissue culture applications		Teaching/practical Class	4+3	Conducted						
2	V	4+3	Soma clonal variations and its applications, Technique and applications of cryopreservation and germplasm storage		Teaching/practical Class	4+3	Conducted						
MONTH: DECEMBER													
1	I	2	Plant cell tissue culture introduction		Teaching/practical Class	2	Conducted		QUIZ	Conducted			
2	II	4+3	Tissue culture history, scope, and basic concepts, Sterilization methods		Teaching/practical Class	4+3	Conducted						
3	III	4+3	Tissue culture cycle, types of cultures		Teaching/practical	3	Conducted						

3	III	4+3	Somatic hybridization, protoplast fusion, fusion and culture hybrid selection, and regeneration, possibilities		Teaching/ practical Class	4+3	Conducted		Assignment		Conducted		
4	IV	4+3	Somatic hybridization achievements, limitations, merits and demerits, Genetic transformation		Teaching/ practical class	4+3	Conducted						
5	V		HMID EXAMINATIONS										
MONTH: MARCH													
1	I		RIVISION										
2	II		SEM END EXAMS										


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V.S.M.COLLEGE,RAMACHANDRAPURAM.

TABLE – A - CURRICULUM PLAN – LECTURER – WISE

DEPARTMENT: BOTANY

paper III: (SIIOLOGY ,TISSUECULTURE BIOTECHNC

CLASS IIIB.Sc(CBZ)

NAME OF THE LECTURER : M.RAJESEARI Msc ,B.Ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE
MONTH: JULY											YEAR 16-17	
1	1 ST WEEK	5	PHYSIOLOGY;Importance of water to plant life,physical properties of water diffusion imbibition osmosis	ppt								
2	2 ND WEEK	5	Absorption of water, ascent of sap-transport of water, transpiration-stomal structure and movements	ppt	Teaching Class Practical	3 3			1			
3	3 RD WEEK	5	MINERAL NUTRITION;essentiality of mincrals and study of micro and macro nutrients role and deficiency symptoms	ppt	Teaching Class Practical	2 3						
4	4 TH WEEK	5	Absorbtion of mineral ions passive and active process	ppt	Teaching Class Practical	2 3			quiz			
MONTH: AUGUST											YEAR 16-17	
5	1 ST WEEK	5	ENZYMES;Nomenclature,characterstics mechanism and regulation of enzyme action	ppt	Teaching Class Practical	2 3						
6	2 ND WEEK	5	Enzyme kiynitics and factors regulating enzyme action	ppt	Teaching Class Practical	2 3						

7	3 RD WEEK	5	PHOTOSYNTHESIS;Photosynthetic pigments,absorbtion and action spectra red crop and emerson enhancement effect concept of photostems	ppt	Teaching Class Practical	2 1 3					1		
8	4 TH WEEK	5	Mechanism of photosynthesis-electron transport evolution of oxygen photophosphorylation,carbon assimilation pathways c3 c4 and CAM	ppt	Teaching Class Practical	3 3				group discussion			

MONTH: SEPTEMBER

YEAR 16-17

10	1 ST WEEK	5	PHYSIOLOGY Respiration Aerobic and anarobic and glycolysis and krebs cycles	chart	Teaching Class Practical	3 3					1		
11	2 ND WEEK	5	Electron transport system mechanism of oxidative phosphorlilation pentose phosphate path way	ppt	Teaching Class Practical	3 3							
12	3 RD WEEK	5	NITROGEN METABOLUISM;Biological nitrogen fixation,nitrate reduction,ammonia assimilation,amini acid synthesis	chart	Teaching Class Practical	3 3							
13	4 TH WEEK	5	LIPID METABOLISM;Structure and functions of lipids, conversion of lipids to corbohydrates beta oxidation.	chart	Teaching Class Unit Test - 2 Practical	2 1 3				Seminar			

MONTH: OCTOBER

YEAR 2016-17

14	1 ST WEEK	5	GROWTH;Definition,phase of growth,kinetics of growth	Computer System with LCD Projector	Teaching Class Practical	3 3							
15	2 ND WEEK	5	phytohormones;Physiological effect iof phyto hormons auxins gibberlinns cytokinns ABA ethylene brassinosteroids	chart	Teaching Class Practical	1 3					1		
16	3 RD WEEK	5	physiology of flowering,stress physiology;physiology of flowering- photoperiodism,role of phytochrome plant	Computer System with LCD Projector	Teaching Class Practical	3 3							
17	4 th WEEK	5	TISSUE CULTURE AND BIOTECHNOLOGY;Introduction,sterilisation procedure culture media explantsCELLS AND	Computer System with LCD Projector	Teaching Class Practical	3 3				Group Discussion			

18																			
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MONTH: NOVEMBER

YEAR 2016-17

19	1 ST WEEK	5	Applications of Tissue culture;production of pathogen free plants soma clonal variants stress resist variants and secondary metabolities	ppt	Teaching Class Practical	1 3													
20	2 ND WEEK	5	BIOTECHNOLOGY;Introduction applications and R-DNA technology steps vectors gene cloning transgenic plants	Computer System with LCD Projector	Teaching Class Practical	2 3					1								
21	3 RD WEEK	5	structure types seed dormancy causes methods breaking seed dormancy	ppt	Teaching Class Practical	3 3													
22	4 th WEEK	5	Seed technology and horti culture;concept	Computer System with LCD Projector	Teaching Class Practical	3 3							Seminar						

MONTH: DECEMBER

YEAR 2016-17

23	1 ST WEEK	5	Horticulture techniques;introduction general aspects land scaping	chart		2 1 3					1								
24	2 ND WEEK	5	Seed storage;seed banks	Computer System with LCD Projector	Teaching Class Practical	3 3													
25	3 rd WEEK	5	vegetative propagation of plants	ppt	Teaching Class Practical	3 3													
26	4 th WEEK	5	Red data book.	Computer System with LCD Projector	Teaching Class Practical	3 3							Quiz						

MONTH: JANUARY

YEAR 2016-17

FEBRUARY												
1st WEEK		PRACTICAL EXAMS										
2nd WEEK		PRACTICAL EXAMS										
3rd WEEK		THEORY EXAMS										
4th WEEK		THEORY EXAMS							1			

M. Rajan
SIGNATURE OF THE LECTURER

[Signature]
SIGNATURE OF THE DEPARTMENT HEAD

D. [Signature]
SIGNATURE OF THE PRINCIPAL

V.S.M.COLLEGE,RAMACHANDRAPURAM.

TABLE – A - CURRICULUM PLAN – LECTURER –WISE

DEPARTMENT:BOTANY

PAPER: II-Gymnosperms ,Cell biology ,Embryology , Anatomy

CLASS IIB.Sc(CBZ)

NAME OF THE LECTURER: M. RAJESWARI M.sc , B.ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	

MONTH:JUL Y

5	1 ST WEEK	2 + 3	GYMNOSPERMS :General characters	ppt	Teaching Class	2 + 3	YES							NO
6	2 ND WEEK	2 + 3	structure reproduction	ppt	Teaching Class	2 + 3	"							"
7	3 RD WEEK	2 + 3	GYMNOSPERMS :classification	ppt	Teaching Class Practical	2 + 3	"							"
8	4 TH WEEK	2 + 3	Morphology of vegetative parts of pinus	Chart	Teaching Class Practical	2 + 3	"							"

MONTH: August

10	1 ST WEEK	2 + 3	Reproductive parts of pinus	Chart	Teaching Class	1+3	"		Seminar	1				"
11	2 ND WEEK	2 + 3	Systematic position and life history of pinus	ppt	Teaching Class	2+3	"							"
12	3 RD WEEK	2 + 3	Morphology of vegetative parts of Gnetum	Chart	Teaching Class Practical	2 + 3	"							"

13	4 TH WEEK	2 + 3	Reproductive parts of Gnetum	Chart	Teaching Class Unit Test - 2 Practical	2 + 3	"										"
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MONTH: September

14	1 ST WEEK	2 + 3	Systematic position and life history of Gnetum	ppt	Teaching Class Practical	2+3	"										"
15	2 ND WEEK	2 + 3	Paleobotany	Computer System with LCD Projector	Teaching Class Practical	1 + 3	"		Group discussio n	1							"
16	3 RD WEEK	2 + 3	Geological time scale	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"
17	4 th WEEK	2 + 3	Bennittiales	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"

MONTH: OCTOBER

19	1 ST WEEK	2 + 3	Anatomy;meristems histological organisauiou of shoot apices and theorys	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"
20	2 ND WEEK	2 + 3	Anatomy;meristems histological organisauiou of Root apices and theorys	Computer System with LCD Projector	Teaching Class Practical	1+3	"		Quiz	1							"
21	3 RD WEEK	2 + 3	Tissues: Complex Tissues	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"
22	4 th WEEK		DASARA HOLIDAYS														

MONTH: NOVEMBER

23	1 ST WEEK	2 + 3	Leaf :Internal structure of Xerophytic plants	Computer System with LCD Projector	Teaching Class Unit Test - 3 Practical	1+3	"		Seminar	1							"
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24	2 ND WEEK	2 + 3	Leaf :Internal structure of Hydrophytic plants	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"
25	3 rd WEEK	2 + 3	Stem and root, Vascular cambium Formation and function.	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"
26	4 th WEEK	2 + 3	secondary growth	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"

MONTH: DECEMBER

27	1 ST WEEK	2 + 3	Anamouous secondary growth- <i>Boerhaavia, bignonia, achyranthus and drosera.</i>	Computer System with LCD Projector	Teaching Class Unit Test - 4 Practical	1+3	"		Quiz	1							"
28	2 ND WEEK	2 + 3	Anamouous secondary growth- <i>Achyranthus and Drasena .</i>	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"
29	3 RD WEEK	2 + 3	Wood structure.														
30	4 TH WEEK	2 + 3	General account study of local timbers,teak.	Computer System with LCD Projector	Teaching Class Practical	1+3	"		Guest Lecture	1							"
31	5 th WEEK	2 + 3	Rosewood,redsanders,nallamaddi,yegisa, and neem.	Computer System with LCD Projector	Teaching Class Practical	2+3	"										"

MONTH: JANUARY

32	1 ST WEEK		PONGAL HOLIDAYS														
33	2 ND WEEK	2 + 3	REVISION		Teaching Class Practical	1+3	"		Group Discussion	1							"
34	3 RD WEEK	2 + 3															



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TABLE - A - CURRICULUM PLAN - LECTURER -WISE

DEPARTMENT: T:BOTANY

paper-IV

PLANTPHYSIOLOGY AND METABOL

CLASS II B.Sc(CBZ)

NAME OF THE LECTURER: I.BALAKRISHNA M.SC B.Ed

MONTH: DECEMBER

YEAR:

23	1 ST WEEK	5	Plant-water relations : physical properties of water,importance of water to plant life.	Computer System with LCD Projector	Teaching Class Practical					4		
24	2 ND	5	diffision,imbibition and osmosis ;concept &	Computer System	Teaching Class Practical					4		
25	3 RD WEEK	5	Mineral nutrition & Enzymes : mineral nutrition:essential elements(macro and micro nutrients) and their role in plant metabolism, deficiency symptoms.	Computer System with LCD Projector	Teaching Class Practical					3		
26	4 th WEEK	5	mineral ion uptake (active and passive transport)	Computer System with LCD Projector	Teaching Class Practical				Quiz	4		

MONTH: JANUARY

YEAR:

27	1 ST WEEK	5	Photosynthesis; Photosynthetic pigments	Computer System with LCD Projector	Teaching Class Unit Test - 3 Practical					4		
28	2 ND	5	Photosynthetic light reactions,photo	Computer System	Teaching Class Practical					3		
29	3 rd WEEK	5	Photorespiration and its significance	Computer System with LCD Projector	Teaching Class Practical					3		
30	4 th WEEK	5	Translocation of organic solutes;mechanism of pholem transport,source-sink relationship.	Computer System with LCD Projector	Teaching Class Practical				Seminar	3		

MONTH: FEBRUARY

YEAR:

31	1 ST WEEK	5	Plant metabolism; respiration; glycolysis.	Computer System with LCD Projector	Teaching Class Unit Test - 4 Practical					4		
32	2 ND WEEK	5	anaerobic respiration, TCA cycle, electron transport system.	Computer System with LCD Projector	Teaching Class Practical	2 3						
33	3 RD		mechanism of oxidative phosphorylation	Computer System with LCD Projector	Teaching Class Practical	2 2						
34	4 TH WEEK	5	Lipid metabolism; types of lipids, beta- oxidation	Computer System with LCD Projector	Teaching Class Practical	2 3			Seminar	3		

MONTH: MARCH

YEAR:

35	1 ST WEEK	5	Growth and development; Growth and development; definition, phases and kinetics of growth.	Computer System with LCD Projector	Teaching Class Practical	2 3						
36	2 ND WEEK	5	physiological effects of phytohormones- auxins, gibberellins, cytokinins, ABA, ethylene and brassinosteroids.	Computer System with LCD Projector	Teaching Class Practical	2 3				4		
37	3 RD		physiology of flowering-									
s	4 TH WEEK		physiology of senescence and ageing.						Group Discussion	3		


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MARCH													
1st WEEK		PRACTICAL EXAMS											
2nd WEEK		PRACTICAL EXAMS											
3rd WEEK		THEORY EXAMS											
4th WEEK		THEORY EXAMS											

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2015 2016 - 2016, 2017

V.S.M.COLLEGE(A) RAMACHANDRAPURAM.

TABLE - A - CURRICULUM PLAN - LECTURER - WISE

DEPARTMENT: BOTANY.

SEMISTER - II

PAPER-I: ARCHIGONIATE PLANTS AND PLANT ANATOMY

CLASS: IB.Sc.(CBZ)

YEAR: 2015 -16

NAME OF THE LECTURER: M.RAJESWARI M.Sc., B.ed.

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS	
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE		
MONTH: DECEMBER														
19	1 ST WEEK	4+6	BRYOPHYTES: Alternation of generations.	Computer System with LCD Projector	Teaching Class Practical	4+6	YES							NO
20	2 ND WEEK	4+6	Structure, reproduction, life history and systematic position of Marchantia, Anthoceros.	Computer System with LCD Projector	Teaching Class Practical	3+6	"		QUIZ	1				"
21	3 RD WEEK	4+6	Evolution of sporophyte in bryophytes.	Computer System with LCD Projector	Teaching Class Practical	4+6	"							"
22	4 TH WEEK	4+6	PTERIDOPHYTES: General characters, classification, alternation of generations and evolution of sporophyte.	Computer System with LCD Projector	Teaching Class Practical	4+6	"							"
MONTH: JANUARY														
23	1 ST WEEK	4+6	PTERIDOPHYTES: Alternation of generations and evolution of sporophyte.	Computer System with LCD Projector	Teaching Class Unit Test - 3 Practical	3+6	"		Seminar	1				"
24	2 ND WEEK	4+6	Structure, reproduction, life history and systematic position of Lycopodium.	Computer System with LCD Projector	Teaching Class Practical	4+6	"	"						"
	3 RD WEEK	4+6	Structure, reproduction, life history and systematic position of Marcellia.	Computer System with LCD Projector	Teaching Class Practical	4+6	"							"

26	4th WEEK	4+ 6	Evolution of stele, heterospory and seed habit in Pteridophytes.	Computer System with LCD Projector	Teaching Class Practical	4+6	"											"
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MONTH: FEBRUARY

27	1 ST WEEK	4+ 6	GYMNOSPERMS: characters, structure, reproduction and classification. General	Computer System with LCD Projector	Teaching Class Unit Test - 4 Practical	3+6	"		Quiz	1								"
28	2 ND WEEK	4+ 6	Morphology of vegetation and reproductive parts, systematic position, life history of Pinus.	Computer System with LCD Projector	Teaching Class Practical	4+6	"											"
29	3 RD WEEK	4+ 6	Morphology of vegetation and reproductive parts, systematic position, life history of Gnetum			4+6	"											"
30	4 TH WEEK	4+ 6	TISSUES AND TISSUES SYSTEMS :Meristematic and permanent tissues	Computer System with LCD Projector	Teaching Class Practical	4+6	"											"
31	5 TH WEEK	4+ 6	Shoot and root meristem and histological organization	Computer System with LCD Projector	Teaching Class Practical	4+6	"											"


MONTH: MARCH

32	1 ST WEEK	4+ 6	secondary growth in Dracena ,Boerhavia and Bignonia	Computer System with LCD Projector	Teaching Class Practical	3+6	"		Group Discussion	1								"
33	2 ND WEEK	4+ 6	Wood structure Study of local timbers	Computer System with LCD Projector	Teaching Class Practical	4+6	"											"
34	3 RD WEEK		REVISION															
35	4 TH WEEK		REVISION															

MONTH: APRIL

APRIL													
1st WEEK		PRACTICAL EXAMS											
2nd WEEK		PRACTICAL EXAMS											
3rd WEEK		THEORY EXAMS											
4th WEEK		THEORY EXAMS											

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TABLE - A - CURRICULUM PLAN - LECTURER - WISE

DEPARTMENT: BOTANY

I. Selvaraj

PAPER : Taxonomy , Medicinal botany , Genitics , Ecology , Biodiversity .

NAME OF THE LECTURER : *I. Selvaraj* M.Sc, B.Ed

CLASS: IIIB.Sc(CBZ)

year : 2015-16

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	REMARKS	remarks
MONTH: JULY YEAR: 2015-16														
1	1 ST WEEK	2 + 4	Taxonomy; Introduction,	ppt	Teaching Class Practical	2+4	yes						No	
2	2 ND WEEK	2 + 4	Systems of classification,	ppt	Teaching Class Practical	2+4	"						"	
3	3 RD WEEK	2 + 4	Artificial natural and phylogenetic	ppt	Teaching Class Unit Test - 1 Practical	2+4	"						"	
4	4 TH WEEK	2 + 4	Bentham and Hooker	ppt	Teaching Class Practical	2+4	"						"	
MONTH: August YEAR: 2015-16														
5	1 ST WEEK	2 + 4	Engler & prantle	ppt	Teaching Class Practical	1+3	"		Seminar	1			"	
6	2 ND WEEK	2 + 4	APG	ppt	Teaching Class Practical	2+4	"						"	
7	3 RD WEEK	2 + 4	Current concepts in angosperms taxonomy	ppt	Teaching Class Practical	2+4	"						"	
8	4 TH WEEK	2 + 4	Cytotaxonomy	ppt	Teaching Class Unit Test - 2	2+4	"						"	

MONTH: September

YEAR: 2015-16

9	1 ST WEEK	2 + 4	Chemotaxonomy	ppt	Teaching Class Practical	2+4	"						"	
10	2 ND WEEK	2 + 4	Numerical taxonomy	ppt	Teaching Class Practical	1+3	"		Group Discussion	1			"	
11	3 RD WEEK	2 + 4	Binomial 'ICBN, Vienna code	ppt	Teaching Class Practical	2+4	"						"	
12	4 TH WEEK	2 + 4	Herbarium	ppt	Teaching Class Practical	2+4	"						"	

MONTH: OCTOBER

YEAR: 2015-16

13	1 ST WEEK	2 + 4	Fabaceae Asclepiadeceae, Amaranthaceae, Lamiaceae,	chart	Teaching Class Practical	2+4	"						"	
14	2 ND WEEK	2 + 3	Euphorbiaceae, Orchidaceae and Poaceae.	chart	Teaching Class Practical	1+3	"		Quiz	1			"	
15	3 RD WEEK	3 + 3	Medicinal botany, Ethano medicine. Out lines of AYURVEDA, SIDDA.	chart	Teaching Class Practical	3+3	"						"	
16	4 TH WEEK	3 + 3	HOMEOPATHY, UNANI systems of traditional medicine.	ppt	Teaching Class Practical	3+3	"						"	

MONTH: NOVEMBER

YEAR: 2015-16

17	1 ST WEEK	3 + 3	Role of Ayush, NMPB, CIMAP and CDRI.,	ppt	Teaching Class Unit Test - 3 Practical	2+3	"		Seminar	1			"	
18	2 ND WEEK	3 + 3	Treditional medicinal vs modern medicine.	ppt	Teaching Class Practical	3+3	"						"	

19	3 rd WEEK	3 + 3	Aswagandha,Sarpaganda,	ppt	Teaching Class Practical	3+3	"						"	
20	4 th WEEK	3 + 3	Nela usiri, Amla, Brahmi.	ppt	Teaching Class Practical	3+3	"						"	

MONTH: DECEMBER

YEAR: 2015-16

21	1 ST WEEK	3 + 3	Pharmacognacy	ppt	Teaching Class Unit Test - 4 Practical	2+3	"		Quiz	1			"	
22	2 ND WEEK	2 + 3	Adultaration of plant crude drugs and methods of	ppt	Teaching Class Practical	2+3	"						"	
23	3 RD WEEK	2+3	Indian pharmacopia	ppt	Teaching Class Practical	2+3	"						"	
24	4 TH WEEK	2 + 3	Ethanomedicine,AY USH.		Teaching Class Practical	1+3	"		GUEST LECTUR	1			"	
25	5 th WEEK	1 + 3	Conservation of rare medicinal plants		Teaching Class Practical	1+3	"						"	

MONTH: JANUARY

YEAR: 2015-16

26	1 ST WEEK	2 + 3	REVISION		Teaching Class Practical	2+3	"						"	
27	2 ND WEEK	2 + 3	REVISION,pongal holidays		Teaching Class Practical	1+3	"		GROU P DISSC USSIO N	1			"	
28	3 RD WEEK		pongal holidays				"						"	
29	4 TH WEEK	2 + 3	REVISION		Teaching Class Practical	2+3	"						"	

MONTH: FEBRUARY

YEAR: 2015-16

27	1 ST WEEK		Floriculture;Introduction importance	ppt						2 1 3							1		
28	2 ND WEEK		PONGAL HOLIDAYS																
29	3 RD WEEK		seed production technology and seed testing	CHART															
30	4 TH WEEK		Seed storage;seed banks facors affecting seed viability genetic erosion green house poly house mist chamber	Computer System with LCD Projector	Teaching Class Practical	2 3											1		
31																			

MONTH: FEBRUARY

YEAR

32	1 ST WEEK	2 + 3	REVISION		Teaching Class Practical	2 3													
33	2 ND WEEK	2 + 3	REVISION		Teaching Class Practical	2 3													
34	3 RD WEEK		A.U. PRACTICAL EXAMINATIONS - 2014																
35	4 TH WEEK		A.U. PRACTICAL EXAMINATIONS - 2014																



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TABLE – A - CURRICULUM PLAN – LECTURER –WISE

DEPARTMENT: T:BOTANY

paper-III

PLANT TAXONOMY AND EMBRYOL

CLASS II B.Sc(CBZ)

NAME OF THE LECTURER: I.BALAKRISHNA M.SC B.Ed

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPICS	ADDITIONAL INPUTS / VALUES ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATE DATE
MONTH: JULY												YEAR:
1	1 ST WEEK	5	Introduction to plant taxonomy : fundamental components of plant taxonomy (identification, nomenclature,classification)	ppt						4		
2	2 ND WEEK	5	taxonomic resources:herbarium-functions &important herbaria, botanical gardens,flora,keys-single access and multi-access	ppt	Teaching Class Practical					4		
3	3 RD WEEK	5	botanical nomenclature-principles and rules,of icbn(ranks and names :principle of priority,bionomial system;type method ,author ciation,valid-publication)	ppt	Teaching Class Practical					3		
4	4 TH WEEK	5	Classification : types of classification-artificial ,natural,and phylogenetic	ppt	Teaching Class Practical				class room seminar	1		
MONTH: AUGUST												YEAR:
5	1 ST WEEK	5	bentham&hooker's classification-merits demerits.	ppt	Teaching Class Practical					4		

6	2 ND WEEK	5	engler&prantle's classification-merits demerits.	ppt	Teaching Class Practical							3		
7	3 RD WEEK	5	phylogeny-origen and evolution of angiosperms	ppt	Teaching Class Unit Test - 1 Practical							1		
8	4 TH WEEK	5	Systematic taxonomy-1:systematic study and economic importance of the following families :annonaceae,brassicaceae,erutaceae,curcubitaceae and apiaceae	ppt	Teaching Class Practical					quiz				
9														

MONTH: SEPTEMBER


YEAR:


10	1 ST WEEK	5	Systematic taxonomy-2: systematic study and economic importance of plants belonging to the following families: asteraceae,asclepiadaceae,lamiaceae	Computer System with LCD Projector	Teaching Class Practical							1		
11	2 ND WEEK	5	ephorbiaceae, arecaceae and poaceae	Computer System with LCD Projector	Teaching Class Practical							4		
12	3 RD WEEK	5	Embryology: anther structure ,microsporogenesis and development of male gametophyte	Computer System with LCD Projector	Teaching Class Practical							3		
13	4 TH WEEK	5	ovule structure and types:megasporogenesis development of monosporic ,bisporic and tetrasporic types(peperomia,drusa,adoxa) of embryo sacs	Computer System with LCD Projector	Teaching Class Unit Test - 2 Practical					Seminar		4		


MONTH: OCTOBER

YEAR:

NOVEMBER												
1st WEEK		PRACTICAL EXAMS										
2nd WEEK		PRACTICAL EXAMS										
3rd WEEK		THEORY EXAMS										
4th WEEK		THEORY EXAMS							1			


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