

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER <u>G. SUSHMA</u>					CLASS : <u>ICB2</u>		Semester : <u>I</u>		Paper : <u>Microbial diversity</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Jan	4	5	Introduction, Origin of life, Abiogenic theory	-	Seminar	1hr	yes	-	-	-	-	-
Feb	4	3	Theories of Evolution L. Pasteur Experiments & Germ theory of disease	-	-	-	-	-	Seminar	1hr	yes	-
	2	5	R.H. Whittaker's classification Moulds & Durents	-	Preparation of charts	1hr	yes	-	-	-	-	-
	3	5	Archae Bacteria, Cyano bacteria & Actinomyces	-	Seminar	1hr	yes	-	-	-	-	-
	4	5	TMV, Bacteriophage, Viroids & Prions, Transmission of plant viruses	-	-	-	-	-	-	-	-	-
Mar	1	5	Symptoms & Control of disease like Bhandi Vein Clearing & Papaya leaf curl	-	Seminar	-	-	-	-	-	-	-

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NAME OF THE LECTURER					CLASS :	Semester :			Paper :				
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					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
	2	5	Bacteria - General characters, Structure & Nutrition of Bacteria, Reproduction in Bacteria	—	Seminar	—	—	—	—	—	—	—	—
	3	3	E.I of bacteria, Algae General characteristics, thallus organization in Algae - Thallus organization	—	—	—	—	—	—	—	—	—	—
	4	5	Spirogyra - Life cycle, Polytrichum, E.I of Algae, Bryophyta	—	charts preparation	1hr	yes	—	—	—	—	—	—
	5	4	Marchantia - Life cycle, Funaria, Evolution of Spermophytes in Bryophyta	—	—	—	—	—	—	Seminar	1hr	yes	—
April	1	5	Platidophyta - Lycopodium, Mosses, Selagin Evolution, Heterospory & Seed habit	—	—	—	—	—	—	—	—	—	—
	2	4	Gymnosperms - Cycas, Gnetum, Geological time scale & Bennettitales	—	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <u>G. SUSHMA</u>					CLASS : <u>II CBZ</u> II BCB Semester : <u>III</u>				Paper : <u>Plant Taxonomy & Embryology</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Nov	3	4	Introduction, Taxonomic Concepts, Bentham & Hooker's system	—	Seminar	1hr	yes	—	—	—	—	—	—
	4	6	Principles of ICBN, Binomial Nomenclature, Type method, Author citation & Valid publication	—	Seminar	1hr	yes	—	—	—	—	—	—
Dec	1	4	Engler & Prantl's system, Phylogeny, Annonaceae, Fabaceae, Rutaceae, Asteraceae	—	—	—	—	—	Seminar	1hr	yes	—	—
	2	4	Asclepiadaceae, Orchidaceae, Cucurbitaceae, Poaceae, Euphorbiaceae	—	Seminar	1hr	yes	—	—	—	—	—	—
	3		Microsporangium, Male gametophyte, .	—	—	—	—	—	—	—	—	—	—
	4		Megasporangium, Female Gametophyte	—	Seminar	1hr	yes	—	—	—	—	—	—

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ANNUAL CURRICULAR

NAMR OF THE LECTURER

G. Sushma

PLAN (Year)

CLASS : *II CBZ*

Semester : *III*

Paper : *Plant Taxonomy & Embryology*

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
<i>Jan</i>	<i>1</i>	<i>5</i>	<i>Pollination, Fertilization, Embryogeny.</i>	<i>—</i>	<i>Seminar</i>	<i>1hr</i>	<i>yes</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
	<i>2</i>	<i>4</i>	<i>Embryosacs, Ovule, Female Gametophyte</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>

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ANNUAL CURRICULAR

PLAN (Year)

NAMR OF THE LECTURER K. Sravika Lakshmi

CLASS : II BSC. CBZ

Semester : V*

Paper : VA - Cell Biology, Genetics & Plant Breeding

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
June	2 nd	1hr	Syllabus & Introduction cell Theory	—	—	—	—	—	—	—	—	—	—
	3 rd	4	Prokaryotic & eukaryotic cell. Eukaryotic cell components	—	—	—	—	—	—	—	—	—	—
	4	4	Cell Wall Plasma membrane Introduction	—	—	—	—	—	—	—	—	—	—
	5	4	Plasma membrane chromosome morphology	—	—	—	—	—	—	—	—	—	—
July	1	4	organization of DNA Euchromatin & Hetero-chromatin DNA composition	—	—	—	—	—	—	—	—	—	—
	2	3	structure of DNA.	—	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2019 - 2020

PLAN (Year)

Paper : VA - Cell Biology, Genetics & Plant Breeding

ANNUAL CURRICULAR

CLASS : IIICB2

Semester : V

NAMR OF THE LECTURER K. Sravika Lakshmi

CURRICULAR ACTIVITY

CO-CURRICULAR ACTIVITY

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					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
July	3	4	Replication of DNA Types of RNA - mRNA	-	Quiz on chromosomes.	-	✓	-	-	-	-	-	-
	4	4	t-RNA, r-RNA, Mendelian laws of Inheritance	-	Seminar by student on Mendel's laws.	8:30	✓	-	-	-	-	-	-
	5	2	Mid Sem I	-	-	-	-	-	-	-	-	-	-
August	1	2	Construction of chromosomal maps.	-	Seminar on Mendel's Mono & dihybrid crosses.	1	✓	-	-	-	-	-	-
	2	3	Two point & Three point Testcross, Concept of linkage & Types of linkage	-	-	-	-	-	-	-	-	-	-
	3	2	Coupling repulsion & significance of linkage Concept of crossing over	-	-	-	-	-	-	-	-	-	-

K. Sravika Lakshmi
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ANNUAL CURRICULAR					PLAN (Year)									
NAMR OF THE LECTURER <i>K. Sravika Lakshmi</i>					CLASS : <i>III CBZ</i>				Semester : <i>V</i>		Paper : <i>VA- Cell Biology, Genetics & Plant Breeding</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY					
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
	4	4	Coupling Crossing over Introduction to plant breeding.	—	Quiz on crossing over	1	✓	—	<i>Quiz on crossing over</i>	—	—	—		
	5	4	objectives of Plant breeding Introduction, Selection (Inbreeding)	—	—	—	—	—	—	—	—	—		
<i>September</i>	1													
	2	4	Selection types, Hybridization (Inbreeding)	—	—	—	—	—	—	—	—	—		
	3	1	Hybridization	—	Asked to prepare ppt	1	—	—	—	—	—	—		
	4	4	Role of mutations in Plant breeding, Somaclonal variations	—	—	—	—	—	—	—	—	—		

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ANNUAL CURRICULAR

PLAN (Year)

Paper : IIA - Cell Biology, Genetics & Plant Breeding

CLASS : III BSC (CBZ)

Semester : V

NAMR OF THE LECTURER : K. Sravika Lakshmi

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
	5	3	Molecular markers and preparation for Final exam.	-	-	-	-	-	-	-	-	-	-

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NAMR OF THE LECTURER <u>G. Sushma</u>					CLASS : <u>III CBZ</u>		Semester : <u>V</u>		Paper : <u>VI ; PLANT ECOLOGY & PHYTOGEOGRAPHY</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
June	2	1	Syllabus, Introduction, Ecology- Definition, Branches & Significance	—	—	—	—	—	—	—	—	—	—
	3	4	Climatic factors :- Light Temperature	—	—	—	—	—	—	Seminar	1hr	YES	—
	4	4	Edaphic Factor - Origin, Formation, Composition & Soil Profile	—	charts preparation	1hr	YES	—	—	—	—	—	—
	5	4	Biotic Factor :- Interaction between plants & Animals. Ecosystem - Concept.	—	—	—	—	—	—	—	—	—	—
July	1	4	Ecosystem - Concept & Components. Energy flow, Food chain, Food web. Ecological pyramids. Primary productivity.	—	—	—	—	—	—	—	—	—	—
	2	4	Secondary productivity, Net productivity, Biogeochemical cycles. Carbon, Nitrogen & phosphorus.	—	models preparation	—	—	—	—	—	—	—	—

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NAMR OF THE LECTURER					CLASS : III CBZ				Semester : V				Paper : Plant ecology & phytogeography			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
	3	4	Population characteristics & Importance & Ecotypes.	—	—	—	—	—	—	—	—	—	—	—		
	4	4	plant communities - characteristics Frequency, density, cover & life forms, Competition	—	Models preparation	1h27	YES	—	—	—	—	—	—	—		
	5		I - mid Sem Exams	—	—	—	—	—	—	Quiz	1h27	YES	—	—		
August	1	1	Interaction between plants growing in a community.	—	—	—	—	—	—	—	—	—	—	—		
	2	3	Principles of Phytogeography, Distribution.	—	Seminar	—	—	—	—	—	—	—	—	—		
	3	3	Phytogeographic regions of India	—	Seminar	—	—	—	—	—	—	—	—	—		

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MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
	4	3	Phytogeographic regions of world.	—	Seminar	1hr	yes	—	—	—	—	—	—			
	5	4	Endemism - Types & Causes Definition, levels of Biodiversity	—	Seminar	1hr	yes	—	—	—	—	—	—			
September	1	3	Biodiversity Hotspots - Criteria, Hotspots of India	—	Seminar	1hr	yes	—	Quiz	1hr	yes	—	—			
	2	1	Loss of Biodiversity - Causes & Conservation	—	Seminar	1hr	yes	—	—	—	—	—	—			
	3	4	In-situ Conservation, Ex-situ Conservation	—	—	—	—	—	—	—	—	—	—			
	4	3	Seed Banks - Conservation of Genetic Resources & their Importance	—	—	—	—	—	—	—	—	—	—			

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