

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

odd SEM

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER N.N. SUNEETHA					CLASS : T BZBT		Semester : I		Paper : Biomolecules & Analytical techniques				
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	
November	2nd	3 Theory hrs	Introduction, syllabus dictation, structure	—	—	—	—	—	—	—	—	—	—
			Structure & properties of carbohydrates	—	practical demon- stration	1hr	yes	—	Assignment	1hr	yes	—	—
	3rd	5hrs	structure & properties of Amino acids	—	—	—	—	—	—	—	—	—	—
			classification of proteins	—	you tube video	1hr	yes	—	—	—	—	—	—
	4th	Theory 5hrs	Structure of protein - S, Denaturation, renaturation	Chemical properties of A-A	—	—	—	—	class room seminar	1hr	yes	—	—
			classification, structure of saturated glycolipid	—	—	—	—	—	—	—	—	—	—

N. Suneetha
Signature of the Lecturer

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S. Chandra

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>N-N-SUNEETHA</u>					CLASS : <u>I BZBT</u>				Semester : <u>I</u>		Paper :		
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	
	5th	2 Theory hrs.	Classification, structure & properties of unsaturated Glycolipids.	—	—	—	—	—	—	—	—	—	—
Dec	1st	3 Theory hrs.	Phospho Lipids.	—	—	—	—	—	—	—	—	—	—
	2nd	5 theory hrs	Cholesterol structure, structure of DNA & function of DNA.	Forms of DNA	you-tube video	hrs	yes	—	—	—	—	—	—
			Structure and functions of RNA.	—	—	—	—	—	class room seminar	hrs	yes	—	—
			Basic principles of sedimentation, types of centrifuge.	—	—	—	—	—	—	—	—	—	—
	3rd	5 Theory hrs	Differential centrifugation	—	—	—	—	—	—	—	—	—	—

N-Suneetha
Signature of the Lecturer

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S. Anuradha

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER N.N. SUNEETHA					CLASS : IB2BT		Semester : I		Paper : Biomolecules & Analytical techniques				
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	
Dec	4th	5 Theo 24 hrs	Chromatography techniques.										
			Structure of Vitamins Fat soluble vitamins	Biosynthetic	YouTube video	1hr	Yes	-	-	-	-	-	-
	5th	5 Theo 4 hrs	H ₂ O soluble vitamins	-	-	-	-	-	Quiz	4hr	yes	-	-
			Entropy, Enthalpy High Energy compounds	-	-	-	-	-	-	-	-	-	-
Jan	1st	5 Theo 24 hrs	Glycolysis, TCA cycle.	-	-	-	-	-	-	-	-	-	-
			ETC, Oxidative Phosphorylation.	Theories	-	-	-	-	-	-	-	-	-

N. Suneetha
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S. Suneetha

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M. Suneetha

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>N.N. SUNEETHA</u>					CLASS: <u>IB2BT</u>				Semester: <u>I</u>		Paper: <u>Biomolecules & Analytical techniques</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	
			Types of centrifugation paper chromatography.	-	-	-	-	-	-	-	-	-	-
	2nd	4 Theory hrs.	Thin Layer Chromatography.	-	you tube vide	1hr	Yes	-	-	-	-	-	-
			ION Exchange, gel permeation chromatography.	-	-	-	-	-	Quiz	1hr	Yes	-	-
	3rd	3 Theory hrs.	Affinity chromatography HPLC,	-	-	-	-	-	-	-	-	-	-
			Types of Electrodes	-	-	-	-	-	-	-	-	-	-
	4th	5 Theory hrs	Spectrophotometer	-	you Tube video	1hr	Yes	-	-	-	-	-	-

N.N. Suneetha
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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER N.N. SUNEETHA					CLASS : IB2BT		Semester : I		Paper : Biomolecules & Analytical techniques				
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	
	5th	2 Theory hrs	TEM, SEM, Beer-Lambert's Law.	-	-	-	-	-	-	-	-	-	-
Feb	1st	4 Theory hrs.	Types of Microscope, Measurement of radioactivity,	-	-	-	-	-	-	-	-	-	-
			Mean, median, mode	-	Example sums - practice	1hr	Yes	-	-	-	-	-	-
	2nd	5 Theory hrs	One way, Two way Anova.	-	-	-	-	-	-	-	-	-	-
March	1st	4 Theory hrs	t, F, test, Chi square test	-	-	-	-	-	-	-	-	-	-
					← Revision classes →								

N.N. Suneetha
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S. Suneetha

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER S. ANURADHA.					CLASS : II BBT Semester : III				Paper : Immunology & rDNA technology				
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	
oct.	4 th	3	Syllabus Dictation & Introduction	-	-	-	-	-	-	-	-	-	-
			Ag, Haptens, Antigenicity	-	-	-	-	-	-	-	-	-	-
			overview of Immune system	Importance									
Nov	1 st	4	Ab structure & types	-	Will be shown You Tube video.	1hr	Yes.	-	Made students prepare models	1hr	Yes	-	-
			- contd -	Importance									
			Immunogenicity, Types of Immune system	-	-	-	-	-	-	-	-	-	-
			- contd -	Examples									
	2 nd	4	organs of Immune system - Primary	show models	Will be shown charts	1hr	Yes.	-	Made students prepare models	1hr	Yes	-	-
			Secondary lymphoid organs	"	"	"	"	-	"	"	"	-	-

Signature of the Lecturer

S. Anuradha

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER					CLASS :	Semester :			Paper :			
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
			Cells of Immune system	will be shown various immune cells on You tube	-	-	-	-	classroom seminar	1hr.	Yes	=
			-Contd -									
	3 rd	5hrs.	cross test									
			cytokines	Video	-	-	-	-	-	-	-	-
			Complement system									
			MHC- types	Differences between MHC I & MHC II.								
			Activity -									
	4 th	5hrs.	Humoral Immune response		-	-	-	-	-	-	-	-
			cell-mediated Immune response		-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :		Semester :		Paper :				
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	
			Vaccines - Introd ⁿ .	Mechanism of action	will be shown on You Tube video.	1hr.	Yes	-		classroom seminar	1hr	Yes	-
			Vaccines - Types										
	5 th W	2 hrs.	Adjuvants										
			Hybridoma Technology.	Medical applications		-	-	-					
Dec	1 st W	2 hrs.	Ag - Ab interactions Precipitation, Agglutination, Immune Diffusion,	will be shown Animations		-	-	-					
			EISA .	Applications.	Process through video.								
	2 nd W	5 hrs	Hypersensitivity - Type - I, II	Examples	Erythroblastosis foetalis.	1hr	Yes	-					
			III, IV										

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S. chuneedra

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S. chuneedra

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ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					CLASS :	Semester :			Paper :			
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
			Auto Immunity	Examples - Effects					Different types - (examples)	1hr	Yes	-
			Activity									
			class Test									
	3 rd hr	5hrs	rDNA technology - introduction	Transgenic sheep	-	-	-	-	-	-	-	-
			steps in cloning		will be shown video				chart preparation	1hr	Yes	-
			Tools in g. Enginee - ring									
			Restriction Endonucle - ases	Mode of action Role in g. Engineering	will be shown YouTube video	1hr	Yes	-	-	-	-	-
			Ligases	Mode of action Role in g. Engineering	will be shown YouTube video	1hr	Yes	-	-	-	-	-
	4 th hr	4hrs	Hosts for cloning									

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S. Anuradha

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ANNUAL CURRICULAR PLAN (Year)					PLAN (Year)									
NAME OF THE LECTURER					CLASS :			Semester :			Paper :			
MONTH	WEEK	HOURS AVAILABLE	CURRICULAR ACTIVITY		CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY					
			SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
			PCR	working video										
			Southern Blotting		Animation of the technique	1hr	Yes	-	-	-	-	-	-	-
			Northern Blotting		Animation of the technique	1hr	Yes	-	-	-	-	-	-	-
			- Christmas Vacation -		-									
	5 th W	5 hrs	Western Blotting		Animation of the technique	1hr	Yes	-	-	-	-	-	-	-
			DNA sequencing	Importance	Animation	1hr	Yes	-	-	-	-	-	-	-
			- contd -											
			site directed mutagenesis	Importance	-	-	-	-	-	-	-	-	-	-
			class test		-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

S. druleedha

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S. druleedha

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :		Semester :		Paper :				
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	1 st W	5 hrs	cDNA library	Advantages									
			Methods of Transformation	will be shown pictures & videos.	-	1	-	-	-	-	-	-	-
			-contd -										
			screening & selection	importance	will be shown blue-white screening technique	1hr	Yes	-	-				
			- contd -										
	2 nd W	2 hrs	Applications of rDNA tech in Agriculture										
			- Transgenic Plants, Edible Vaccines.	You tube Video.	-	1	-	-	-	-	-	-	-
			Antibodies										
	3 rd W	-	- Pongal Vacation -		_____								

Signature of the Lecturer
S. Dhuleedra

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S. Dhuleedra

Signature of the Principal
K. Jayaram

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :		Semester :		Paper :				
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 th	2 hrs	Applications of rDNA Tech. in Medicine — Insulin production	other applications vaccine prod ⁿ .									
	4 th	2 hrs	DNA fingerprinting	importance	—	—	—	—	—	—	—	—	—
			Applications of rDNA Tech. in disease diagnosis		—	—	—	—	—	—	—	—	—
			—revision—										
			—class Test—										
	5 th	1 hr.	Bioinformatics — Introduction	scope & Applications	—	—	—	—	—	—	—	—	—
Feb.	1 st	5 hrs	Pubmed	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

S. Anulekha

Signature of the HOD

S. Anulekha

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Kalyani

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :	Semester :	Paper :						
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	
			NCBI		-	-	-	-	-	-	-	-	-
			EMBL, Expasy.		-	-	-	-	-	-	-	-	-
			revision					-Type your text					
	nd 2W	5hrs	BLAST	Importance	JAM on subject topics	2hrs.	Yes	-	-	-	-	-	-
			clustal W						JAM on subject topics	1hr	Yes	-	
			Phylogenetic Analyses	Importance									
			Revision										
	ed 3W	5hrs	II mid-sem		<hr/>								
	th 4W	4hrs	Proteomics	scope & Applications									

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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	
			Genomics, Transcriptomics	—	—	—	—	—	—	—	—	—	—
			Nanotechnology	—	—	—	—	—	—	—	—	—	—
	5 th W	2 hrs	Revision —										
	March 3 rd		to 16 th	Semester Exams —									
	March 17 th		onwards	Practical Exams —									

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S. Anuradha

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: N.N. SUNEETHA					CLASS: III BZBT		Semester: V		Paper: GB Organic Farming				
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	
November	4th Week	04+2	Syllabus Dictation - Organic Farming Definition, soil Introduction.	-	-	-	-	-	-	-	-	-	-
			Soil formation, composition and characteristics, types of soil.	-	-	-	-	-	-	Make the students to prepare a model for soil profile	1.	Yes	-
			Distribution of soil groups in India. Acidic, Alkaline and heavy metal soils	-	Detailed Explanation of contaminated soils. PPT showed	1	Yes	-	-	-	-	-	-
	5th Week	04+2	Methods of Reclamation.	-	Methods of Reclamation video showed	1	Yes	-	-	-	-	-	-
			Effects of chemical dependent farming on yield and soil health	-	-	-	-	-	-	-	-	-	-
Dec	1st Week		Macro and micro-nutrients, functions of Nutrients in plants and their development	-	-	-	-	-	-	class room Seminars	02.	Yes	-

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CURRICULUM LECTURER WISE 2022- 2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER <u>N.N. SUNEETHA</u>					CLASS : <u>III BZBT</u>				Semester : <u>V</u>		Paper : <u>6B Organic Farming.</u>		CO-CURRICULAR ACTIVITY	
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
Dec	2nd Week	04 +2	Nutrient uptake and utilization by plants Types of Fertilizers.	—	—	—	—	—	Quiz	1	Yes	—		
			Organic-inorganic and bio-fertilizers. Chemical fertilizers.	—	—	—	—	—	—	—	—	—		
Dec	3rd Week	04 +2	Advantages & disadvantages of their use.	—	—	—	—	—	—	—	—	—		
			Importance of organic and bio fertilizers.	—	—	—	—	—	—	—	—	—		
Dec	4th Week	04 +2	Definition, concept, benefits of Organic farming. Integrated farming system.	—	—	—	—	—	class room seminar	02	Yes	—		
			Mixed farming system. concept of different cropping system.	—	—	—	—	—	—	—	—	—		

N.N. Suneetha
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CURRICULUM LECTURER WISE 2022- 2023

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NAMR OF THE LECTURER <u>N.N. SUNEETHA</u>					CLASS : <u>III BZBT</u>			Semester : <u>V</u>		Paper : <u>6B Organic Farming</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
Dec	5th Week	04+2	Inter cropping, crop rotation. Organic farming process.	—	—	—	—	—	—	—	—	—
			Organic fertilizers Crop nutrients and effective micro-organisms	—	—	—	—	—	—	—	—	—
Jan	1st Week	04+2	Definition, types of compost. Farm yard compost,	—	—	—	—	—	class room seminar	1+1	yes	—
			Green leaf compost Animal husbandry Animal housing.	—	—	—	—	—	quiz	1	yes	—
Jan	2nd Week	04+2	Animal feeding, Animal health, breeding goals.	—	—	—	—	—	class room seminar	02	yes	—
			Vermicompost; In production, vermicompost material	Make the students to prepare Vermicompost.	—	—	—	—	—	—	—	—

N. Suneetha
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CURRICULUM LECTURER WISE 2022- 2023

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NAMR OF THE LECTURER <u>N.N-SUNEETHA</u>					CLASS : <u>III B2BT</u>			Semester : <u>V</u>		Paper : <u>6B- Organic - Farming</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	3rd week	04	Species of earthworm - small scale & large scale composting process.	Species of earthworm Videos showed.	-	-	-	-	-	-	-	-	-
			Vermicomposting, processing and chipping. Nutrient content	-	-	-	-	-	-	-	-	-	-
Jan	4th week		Field application methods.	-	-	-	-	-	class room seminar	02	Yes	-	-
			Introduction to Biofertilizers, Status, and scope	-	-	-	-	-	-	-	-	-	-
Jan	5th week		Structure and characteristic features of bacteria & Biofertilizers.	-	-	-	-	-	class room seminar	02	Yes	-	-
			Azospirillum, Azotobacter, Bacillus,	-	-	-	-	-	-	-	-	-	-

N. Suneetha
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>N.N. SUNEETHA</u>					CLASS: <u>III BZBT</u>				Semester: <u>V</u>		Paper: <u>Organic farming 6B</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		
Feb	1st week	4+2	Pseudomonas, Rhizobium and Frankia	—	—	—	—	—	Quiz	1.	Yes	—		
			Cynobacterial biofertilizers - Anabaena	—	—	—	—	—	—	—	—	—		
Feb	2nd week	04+2	Haplosporion and fungal biofertilizers	—	—	—	—	—	Class Room seminar	02	Yes	—		
			AM - mycorrhiza and Ecomycorrhiza	—	shown photos of types of mycorrhiza	—	—	—	—	—	—	—		
Feb	3rd week	04+2	Mechanism of nitrogen fixation.	—	—	—	—	—	—	—	—	—		
			Mechanism of phosphorus solubilization	—	—	—	—	—	—	—	—	—		

N. Sunetha
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Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 20²²- 20²³

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :	Semester :			Paper :				
K. Satya Sri					III BZBT	V			7B - Biofertilizer & Biopesticides production				
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	4 th week	4+2	Introduction & explanation of syllabus Introduction of Biofertilizer.	-	-	-	-	-	-	-	-	-	-
Nov	5 th	4+2	History, concept and scope of Biofertilizer in India. classification, microorganisms used as Biofertilizers.	-	-	-	-	-	-	-	-	-	-
					PPT showed on different types of m.o.s	1	Yes	-	-	-	-	-	-
						-	-	-	-	-	-	-	-
Dec	1 st	4+2	Bacterial, fungal and Algal Biofertilizers.	-	shown photos of Biofertilizers	1	Yes	-	-	-	-	-	-
			symbiotic and a symbiotic micro organisms.	-		-	-	-	Quiz	1	Yes	-	-

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K. Satya

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S. Anuradha

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER					CLASS : III BZBT Semester : V				Paper : 7B - Biofertilizers and Biopesticides Production.			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	2nd		Mechanism of Modulation and Nitrogen fixation.	—	—	—	—	—	Class room seminar on Nitrogen fixation	1	Yes	—
			Introduction of Mycorrhiza as Biofertilizer.	—	—	—	—	—		—	—	—
Dec	3rd		Importance, types, characteristic features of Ecto and endo mycorrhiza.	—	Share photos of types of Mycorrhiza	1	Yes	—	—	—	—	—
			Mechanism of phosphorus solubilization.	—	—	—	—	—	—	—	—	—
Dec	4th		uptake of phosphorus by the roots.	—	—	—	—	—	Quiz	1+1	Yes	—

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>K. Satya Sri</i>					CLASS : <i>III BZBT</i>			Semester : <i>V</i>		Paper : <i>7B - Biofertilizers and Biopesticides Production.</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	
<i>Dec</i>	<i>5th</i>		<i>Consortium based inoculums and significance.</i>	—	—	—	—	—	—	—	—	—	—
			<i>Introduction of Biopesticides</i>	—	—	—	—	—	—	<i>class room Seminar</i>	<i>1</i>	<i>Yes</i>	—
<i>Jan</i>	<i>1st</i>		<i>Definition, concept, scope and importance of Biopesticides.</i>	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
<i>Jan</i>	<i>2nd</i>		<i>classification- Botanical, Bacterial,</i>	—	<i>Detail explanation of classification</i>	<i>1</i>	<i>Yes</i>	—	—	—	—	—	—
			<i>Fungal, and viral based Biopesticides.</i>	—	<i>of Biopesticides. ppt shown</i>	<i>1</i>	<i>Yes</i>	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 20²²- 20²³

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>K. Satya Sri</i>					CLASS : <i>III BZBT</i>		Semester : <i>V</i>		Paper : <i>7B - Biofertilizers and Biopesticides Production</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	
<i>Jan</i>	<i>3rd</i>		<i>Mechanism of Action of Bacillus thuringiensis and Tricoderma virididae as Bio control agents.</i>	—	<i>shown photos of Bt cotton and Tricho-</i>	<i>1</i>	<i>Yes</i>	—	—	—	—	—	—
			<i>giensis and Tricoderma virididae as</i>	—	<i>derma sps.</i>	—	—	—	—	<i>Quiz</i>	<i>1+1</i>	<i>Yes</i>	—
			<i>Bio control agents.</i>	—	—	—	—	—	—	—	—	—	—
<i>Jan</i>	<i>4th</i>		<i>Introduction of Mass production techniques.</i>	—	—	—	—	—	—	<i>Class Room Seminar</i>	<i>1</i>	<i>Yes</i>	—
			<i>Media types and preparation</i>	—	<i>shown ppt's on media preparation</i>	<i>1</i>	<i>Yes</i>	—	—	<i>Make students to prepare media like</i>	<i>1</i>	<i>Yes</i>	—
			<i>Introduction of Methods of Isolation.</i>	—	—	—	—	—	—	<i>Nutrient agar and Broth</i>	—	—	—

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S. Chinnappa

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K. Satya Sri

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)				7B - Biofertilizers and Biopesticides Production.				
NAME OF THE LECTURER: <u>K. Satya Sri</u>					CLASS: <u>III B2BT</u>		Semester: <u>2</u>		Paper: <u>Biopesticides Production.</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	5 th		Streak, spread, pour plate techniques.	Serial Dilution technique	shown photos of plating techniques	1	Yes			Make students practice the pure culture techniques	1	Yes	
			Purification & identification of microorganisms										
			used as Biofertilizers and Biopesticides.										
Feb	1 st		Mass production and packing techniques.										
			Preparation of carrier based inoculum.		shown ppt's of carriers used as inoculum	1	Yes						
Feb	2 nd		Sphagnum, peat, vermiculite as a										

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S. Chandra

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CURRICULUM LECTURER WISE 2022- 2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAMR OF THE LECTURER					CLASS :	Semester :		Paper :				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Inoculum carriers. Dosage standardisation.									
Feb	3 rd		Seed treatment, foliar application, root						quiz	1	Yes	
			dressing and soil application techniques.									
			storage and maintenance of inoculum.									

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S. Anuradha

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