

(odd sem)

Biomolecules & Analytical Techniques
Paper

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>Akhila Gouhar</i>					CLASS : <i>Ist BSc-BZBT</i> Semester : <i>1st semester</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	
Nov.	18 to 20	2 hrs.	Introduction & Syllabus	—	—	—	—	—	—	—	—	—	—
Nov.	22 to 27	5 hrs.	structure, classification & properties of carbohydrates	—	—	—	—	—	—	—	—	—	—
Nov.	29, 30	2 hrs.	Structure & classification of amino acids	—	—	—	—	—	—	—	—	—	—
Dec.	1 to 4	3 hrs.	properties of amino acids, peptide bond, peptides	You Tube video	Yes	1	—	—	—	—	—	—	—
Dec.	6 to 11	5 hrs.	Classification, structure & properties of proteins, Denaturation & Renaturation of proteins	—	—	—	—	—	—	—	—	—	—
Dec.	13 to 18	5 hrs.	Classification of lipids, fats, Structure of Saturated & Unsaturated P.A.S.	—	—	—	—	—	—	Student Seminars	—	—	—
Dec.	20 to 24	4 hrs.	Glycolipids, phospholipids & cholesterol.	—	—	—	—	—	—	—	—	—	—
Dec.	27 to 31	5 hrs.	Struct of Purines & Pyrimidines, struct. & Funct of DNA & RNA.	—	—	—	—	—	—	—	—	—	—
Jan.	3 to 8	5 hrs.	Vitamins A, D, E & K Vitamin B complex & C-Vitamin	—	—	—	—	—	—	quiz	—	—	—

Signature of the Lecturer

Akhila

Signature of the HOD

S. Anulekha

Signature of the Principal

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SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN (Year)								
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Jan	9 to 18	Pongal holidays	-	-	-	-	-	-	-	-	-	-	-
Jan	19 to 22	3 hrs.	Free energy, Enthalpy, Entropy.	-	-	-	-	-	-	-	-	-	-
Jan	24 to 29	5 hrs.	Redox potential High energy Compounds.	-	-	-	-	-	-	-	-	-	-
Feb	1 to 5	4 hrs.	Glycolysis, TCA, ETC, Oxidative Phosphorylation	-	-	-	-	-	-	-	-	-	-
Feb	7 to 12	5 hrs.	Principle of Sedimentation Centrifugation - types.	-	-	-	-	-	-	Group discussion	1hr	Yes	-
Feb	14 to 17	4 hrs	I st Mid Examination	-	-	-	-	-	-	-	-	-	-
Feb	18, 19 ¹⁹	2hr.	Paper chromatography & partition chromatography	Procedure of Paper chromatography	Yes	1hr	Yes	-	-	-	-	-	-
Feb	21 to 26	5 hrs.	Adsorption chromatography, TLC, Ion exchange, gel permeation, Affinity.	-	-	-	-	-	-	-	-	-	-
Feb	28	1hr	HPLC.	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

Signature of the HOD
S. Chundrabhanu

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Mar Feb	1 to 5	4 hrs	G, CMS, LCMS, Principle of Electrophoresis, Types	-	-	-	-	-	-	-	-	-	-
Mar	7 to 12	5 hrs	Factors affecting electro phoresis, PAGE-Native SDS PAGE, Isoelectric focusing	You Tube video	Yes	1hr	Yes	-	-	-	-	-	-
Mar	14 to 19	5 hrs	Beer Lamberts law, Extinction Coefficient, Colorimeter, UV visible Spectrophotometer, Crystallography.	-	-	-	-	-	-	Assignment	1hr	Yes	-
Mar	21 to 26	5 hrs	Compound microscope, Phase Contrast microscope, Fluorescent, Electron microscope, TEM and SEM.	-	-	-	-	-	-	-	-	-	-
Mar Apr	28 to 31	4 hrs	Measurement of radioactivity, Mean, median, mode Standard deviation One way & Two way Anova.	Practice more examples	Yes	1hr	Yes	-	-	-	-	-	-
Apr	1, 2	1hr	T-test, F-test, Chesquare test.	-	-	-	-	-	-	-	-	-	-

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S. Anuradha

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Apr	4 to 9	5 hrs.	Revision	—	—	—	—	—	—	—	—	—	—
Apr	11 to 15	5 hrs	Revision	—	—	—	—	—	—	—	—	—	—
Apr	16 to 23	Pre final Exams.	Pre final Exams	—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year) <i>Biotechnology</i>								
NAMR OF THE LECTURER <i>S. ANURADHA</i>					CLASS : <i>II B&BT</i> Semester : <i>III</i>				Paper : <i>Immunology Ep</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY <i>SDM Technology</i>				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
<i>Nov</i>	<i>3rd (19-20)</i>	<i>1 hr</i>	<i>Syllabus dictation Introduction</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>4th (22-27)</i>	<i>4 hrs</i>	<i>Types of immunity Types of Antibodies</i>	<i>You tube videos & animations</i>	<i>Yes</i>	<i>1hr.</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>5th (29-30)</i>	<i>2 hrs</i>	<i>organs of immune system cytokines</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>will Make the students prepare the models.</i>	<i>1hr</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Dec</i>	<i>1st (1-4)</i>	<i>2 hrs</i>	<i>Cells of Immune system Complement</i>	<i>-</i>	<i>will be shown various immune cells in Youtube.</i>	<i>1hr</i>	<i>Yes</i>	<i>-</i>	<i>chart prepare -tion</i>	<i>1hr</i>	<i>Yes</i>	<i>-</i>	<i>-</i>
	<i>2nd (6-11)</i>	<i>4</i>	<i>MHC, Humoral immunity, Cell mediated immu- -nity</i>	<i>Types of MHC Differences</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>3rd (13-18)</i>	<i>4</i>	<i>Vaccines Adjuvants ELISA</i>	<i>working mechanism video</i>	<i>-</i>	<i>1hr</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

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	4 th (20-25)	2 hrs.	Hybridoma tech. Ag-Ab interactions	shown Medical importance	Will be shown You tube video.	1hr	Yes	-	-	student seminar.	1hr	Yes	-
	5 th (27-31)	3 hrs.	Hypersensitivity Auto immunity	Auto immune diseases -	-	1hr	Yes	-	-	-	-	-	-
Jan	2 nd (3-8)	4 hrs.	Introd ⁿ to rDNA technology.	-	-	-	-	-	-	-	-	-	-
			steps in cloning	Transgenic Sheep.	Will be shown You tube video.	1hr	Yes	-	-	-	-	-	-
	3 rd (10-15)	-	Pongal Vacations	-	-	-	-	-	-	-	-	-	-
	4 th (17-22)	4 hrs.	Tools of genetic engineering	-	Will be shown the vector videos.	1hr	Yes	-	-	will make them prepared vector models	1hr	Yes	-
			Vectors	-	-	-	-	-	-	-	-	-	-
			Enzymes	-	-	-	-	-	-	-	-	-	-
			Hosts	-	-	-	-	-	-	-	-	-	-
	5 th (24-29)	4 hrs.	PCR Blotting techniques site directed mutagenesis	-	Mechanism through videos	1hr	Yes	-	-	Working of PCR	1hr	Yes	-

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Feb	1 st (1-5)	3 hrs	DNA sequencing	other methods	animation	1hr	Yes	-	-	-	-	-	-	
			cDNA library. Transformation	Advantages	will be shown you tube videos	1hr	Yes	-	-	-	-	-	-	
	2 nd (7-12)	4 hrs	selection & screening DNA finger printing											
			Applications of rDNA technology	Bt Cotton	will be shown the process video	1hr	Yes	-	-	-	-	-	-	
	3 rd (14-19)	4 hrs	PubMed, NCBI,	} DBJ Gen Bank	-	-	-	-	-	-	-	-	-	
			EMBL, Expasy,		-	-	-	-	-	-	-	-	-	-
			BLAST		-	-	-	-	-	-	-	-	-	-
	4 th (21-26)	4 hrs	clustal W											
			Phylogenetic tree construction	Tree types & models	will be shown through videos	-	-	-	-	-	-	-	-	
			Proteomics											

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S. Anu Reddy

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March	1st (1-5)	3 hrs	genomics Transcriptomics Nanotechnology.										
				Importance	will be shown You tube video.	1hr	Yes	-	-	-	-	-	-
			Practicals										
			Revision classes										
			semester - end examinations										

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