

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <i>B. Sravya Sree</i>					CLASS <i>IFMBC</i> Semester: <i>III</i>							
					CURRICULAR ACTIVITY				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
June	2 nd	3	Syllabus Dictation Introduction to	-	-	-	-	-	-	-	-	-
			Enzymology Biocatalysis	Importance of Enzymes	From text book - Palmer	1	-	-	-	-	-	-
	3 rd	4	Diffs bet. chemical & Biological catalysis	-	-	-	-	-	-	-	-	-
			Nomenclature & classification of Enzs	-	-	-	-	-	-	-	-	-
	4 th	4	Enzyme specificity Active site	character of Active site	-	-	-	-	-	-	-	-
			Principles of activation	-	-	-	-	-	-	-	-	-
	5 th	4	Transition state Lock & Key theory	-	-	-	-	-	class room seminar	1hr	Yes	-
			Induced-fit theory	-	-	-	-	-	-	-	-	-
July	1 st	4	Holo enz/ Apo enz co enz, cofactors	-	You lecture video	1hr	Yes	-	-	-	-	-

Signature of the Lecturer

B. Sravya

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S. Anil Kumar

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR 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	
			Factors affecting catalysis - pH,	-	YouTube video	1hr	Yes	-	-	-	-	-	-
	2nd	3	substrate conc, temp, Enz conc	-	-	-	-	-	-	-	-	-	-
			MM equation	-	-	-	-	-	-	-	-	-	-
			significance of k_m & V_{max}	-	-	-	-	-	-	-	-	-	-
	3rd	4	Enzyme	-	-	-	-	-	-	-	-	-	-
			Inhibition - Reversible,	animation	-	1hr	Yes	-	-	-	-	-	-
			Irreversible - Competitive,	-	-	-	-	-	-	-	-	-	-
	4th	4	Non-competitive un competitive	-	-	-	-	-	-	-	-	-	-
			Acid-base catalysis	Mech. of action	Videos	1hr	Yes	-	-	-	-	-	-
			Covalent catalysis	-	-	-	-	-	-	-	-	-	-
	5th	1	Electrostatic catalysis	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
B. S. Ravi

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S. Anil Kumar

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Aug	1 st	2	Electrostatic catalyses Metal-ion catalyses	-	-	-	-	-	Assignment	1hr	Yes	-
			Reg. of enz. activity - Allosterism eg	-	-	-	-	-				
	2 nd	2	Cooperativity ATCase enz.	-	-	-	-	-				
			covalent modulation zymogen activation	-	-	-	-	-	quiz	1hr	Yes	-
	3 rd	3	I mid-sem	-	-	-	-	-				
			PDH	-	-	-	-	-				
	4 th	4	Trypsinogen & chymotrypsinogen	-	-	-	-	-				
			Isoenze - LDH	-	-	-	-	-				
			hemozyme Thermodynamic Principles	-	-	-	-	-				

Signature of the Lecturer
B. Savya

Signature of the HOD
S. Mulechandra

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018-2019

ANNUAL CURRICULAR					PLAN (Year)								
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					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
	5 th	3	Chemical equilibria Free energy Enthalpy Entropy High Energy Compds	-	-	-	-	-	JAM	1hr	Yes	-	
				-	-	-	-	-					
Sept	1 st	2	Red-ox rxns ETC - organization Inhibitors	-	-	-	-	-					
	2 nd	3	oxidative phosphorylation, uncouplers	-	-	-	-	-					
			Mechanism of oxidative phosphorylation	You Tube Video	-	1hr	Yes	-					
	3 rd		- II mid-term -										
	4 th	3	Papers - distribution										
	5 th	4	- Revision -										
Oct	1 st	-	Practical	Exams followed by					sem-end exams				

Signature of the Lecturer
B. Saranya

Signature of the HOD
S. Mulechandra

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CURRICULUM LECTURER WISE 2018 - 2019

Microbial Genetics &
Molecular Biology
Microbiology

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER S. ANURADHA					CLASS : III B.Sc - MBC		Semester : III		Paper : Microbiology				
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	2	Syllabus Dictation Introduction	-	-	-	-	-	-	-	-	-	-
	3 rd	4	Nature & struct. of gene Structure of DNA DNA as g. material.	Explained about cistron, Muton, Recon.	student Seminar	1	Yes	-	will showed You Tube video.	1	Yes	-	-
	4 th	2	Models of Replication Enzymes of " Replication Process.	-	will showed animation	-	-	-	-	-	-	-	-
	5 th	4	Inhibitors of Replication Transcription process. Genetic code	-	will showed animation	1	Yes	-	quiz	1	Yes	-	-
			Wobble Hypothesis structure of Ribos. -ome.	-	Youtube video	1	Yes	-	-	-	-	-	-
July	1 st	4	struct. of tRNA. protein synthesis Post Translational modifications	-	You tube video student seminars	1	Yes	-	animation	1	Yes	-	-

Signal Hypothesis

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CURRICULUM LECTURER WISE 2018 - 2019

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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 nd	4	Inhibitors of Pth. syn. Lac operon & DNA technology steps	Explored about inhibitors of Cancer	will showed Model. You tube video	1	Yes	-	-	-	-	-	-
	3 rd	3	Tools in & DNA tech. Restriction Mapping	Explained various examples of & DNA tech.	class Test	1	Yes	-	-	-	-	-	-
	4 th	3	cloning Vectors - Plasmids, Cosmids, Phagemids etc.	Explored about BAC's & YAC's	-	-	-	-	IAM	1hr	Yes	-	-
	5 th	4	I mid- sem examinations	-	-	-	-	-	-	-	-	-	-
August	1 st	1	Applications of gene cloning - Insulin.	-	-	-	-	-	-	-	-	-	-
	2 nd	3	Human growth hormone production Bt cotton production	-	Revision class	1	Yes	-	-	-	-	-	-

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S. Anil Kumar

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CURRICULUM LECTURER WISE 2018 - 2019

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					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
August	3 rd	2	Prod. of Edible Vaccines const. of genomic & cDNA libraries	Explained about advanced Vaccines	You tube video	1	Yes	-	-	-	-	-	-
	4 th	3	Isolation & sequencing of cloned genes Nucleic Acid hybridiz ⁿ	-	-	-	-	-	-	-	-	-	-
	5 th	3	DNA sequencing PCR Southern Blotting	-	You tube video	1	Yes	-	Assignment	1hr	Yes	-	-
Sept	1 st	3	DNA Finger Printing Genomics & Proteomics Northern Blotting	Explained about crime detections using Finger Printing	You tube video	1	Yes	-	-	-	-	-	-
	2 nd	1	GeneBank, NCBI, DDBJ	-	-	-	-	-	-	-	-	-	-
	3 rd	4	SWISSPROT, PDB, BLAST, FASTA Types of Fermentations, Design of Fermentos	-	will be showed BioInfor- matics websites	-	-	-	-	-	-	-	-

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S. Anuradha

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

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NAMR OF THE LECTURER					CLASS :	Semester :	Paper :			CO- CURRICULAR ACTIVITY			
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 th	4	Practical Examinations										
October	1 st	3	Types of Fermentors		charts	1	Yes	-					
	2 nd	9	Dasara Vacation										
	3 rd	5	Ethanol & Acetone production Penicillin Production Citric Acid	will Explored about various productions					Quiz	the	Yes		
	4 th	4	Immobilization & their applications		Demonstrated the immobilization process	1	Yes	-					
	5 th			Semester Examinations									

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ANNUAL CURRICULAR					PLAN (Year) BIOTECHNOLOGY & Mol. Biology								
NAMR OF THE LECTURER S. ANURADHA					CLASS : III BBC Semester : V Genetics & Mol. Biology Paper : VA								
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 W	4	Syllabus dictation Introd. to Paper Mendel's laws.	-	-	-	-	-	-	-	-	-	-
June	3 rd W	3	Deviations Incomplete & Co-dominance penetration & pleiotropism.	what made Mendel's to experiment on pea plant	1	Yes	-	will show You tube Video	-	-	-	-	-
June	4 th W	4	Recessive & dominant epistasis gene interactions Multiple alleles.	genetic problems	-	-	-	-	will Explained problems and made them practice some examples.	1	Yes	-	-
June	5 th W	4	struct. of gene, gene & envt. gene copies & heterogeneity.	You tube video	1	Yes	-	of gene structure	-	-	-	-	-
July	1 st W	4	Meiotic non-disjunction of chromosomes chromosomal abnormalities Hardy Weinberg equation	Examples of chromosomal abnormalities	1	Yes	-	-	-	1	Yes	-	-

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July	2 nd W	3	Linkage Recombination	Examples	Yes	1	Yes	-	-	-	-	-
July	3 rd W	4	Gene maps Interference & Coincidence gene determination	=	-	1	-	-	-	-	-	-
July	4 th W	4	Gene Rep ⁿ studies DNA rep ⁿ process Rep ⁿ enzymes	Importance of replication process	showed diagram for Rep ⁿ process.	1	Yes	-	student seminar	1	Yes	-
July	5 th W	2	Exptal proof of semi-conservative model of rep ⁿ .	Importance of conservativeness	videos.	1	Yes	-	-	-	-	-
Aug.	1 st W	2	Models of DNA rep ⁿ use of DNA rep ⁿ mutants in the study of rep ⁿ .									
Aug	2 nd W	3	Gene mutations Revision for I mid	Disadvantages of mutations	Examples of mutations	1	Yes	-	-	-	-	-

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			Papers distribution	-	-	-	-	-	-	-	-	-	-
Aug	4 th W	3	DNA repair mechanisms Mismatch repair	Importance of repair in our body	-	-	-	-	quiz	1	Yes	-	-
			light induced " SOS "		-	-	-	-	student seminar	1	Yes	-	-
			Recombination "		-	-	-	-	-	-	-	-	-
Aug	5 th W	3	Post rep ⁿ " Rec gene "	Importance of transcription	-	-	-	-	-	-	-	-	-
			Transcription - Introduction		-	-	-	-	-	-	-	-	-
Sept Sept	1 st W	1	RNA Polymerase	Importance of transcription	You tube video	-	-	-	-	-	-	-	-
	2 nd W	2	Transcription process Initiation, Elongation, Termination		-	animation of transcription process	1	Yes	-	-	-	-	-

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Sept	3 rd W	-	IP mid-sem Papers distribution	-	-	-	-	-	-	-	-	-
Sept	4 th W	3	Regulation Reverse transcription	Role in viruses	Process Youtube video	11	Yes	-	-	-	-	-
Sept	5 th W	4	Revision classes		-	-	-	-	-	-	-	-
Oct	1 st W	-	Practical Examinations semester - End	"	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>B. Sree sravya</i>					CLASS : <i>III BBC</i> Semester : <i>V</i>				Paper : <i>IB gene exp & DNA tech</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
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JUNE	<i>2nd week</i>	<i>2</i>	<i>Eukaryotic translation introduction</i>	-	-	-	-	-	-	-	-	-	-
			<i>genetic code characteristics</i>	-	-	-	-	-	-	-	-	-	-
JUNE	<i>3rd W.</i>	<i>2</i>	<i>Exptl elucidation of Codons</i>	<i>Shine Dalgarno sequence</i>	-	-	-	-	-	-	-	-	-
			<i>Identification of start & stop codons</i>		-	-	-	-	-	-	-	-	-
JUNE	<i>4th W</i>	<i>3</i>	<i>Decoding system</i>	-	-	-	-	-	<i>Student seminar</i>	<i>1hr</i>	<i>Yes</i>	-	-
			<i>Amino acyl synthetases</i>	<i>structure & mode of action</i>	<i>Video</i>	<i>1hr</i>	<i>Yes</i>	-	-	-	-	-	-
JUNE	<i>5th W.</i>	<i>4</i>	<i>Adaptor hypothesis</i>		<i>YouTube Video</i>	-	-	-	-	-	-	-	-
			<i>Attachment of amino acids to tRNA.</i>	<i>Wobble hypothesis</i>		-	-	-	-	-	-	-	-
			<i>Wobble hypothesis</i>			-	-	-	-	-	-	-	-
			<i>Shine-Dalgarno sequence</i>			-	-	-	-	-	-	-	-

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B. sravya

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July	1 st W	4	Protein synthesis Initiation, Elongation, Termination.	-	Youtube video	1hr	Yes	-	-	-	-	-	-
			Genetic code.		chart	1hr	Yes	-	-	-	-	-	-
July	2 nd W	2	Post Translational Modifications.	Table	-	-	-	-	quiz	1hr	Yes	-	-
			Regulation of Translation.	-	-	-	-	-	-	-	-	-	-
July	3 rd W	4	Phage T4 pts. P32 translational regulation.	-	-	-	-	-	-	-	-	-	-
			Antibiotics affecting translation.	-	-	-	-	-	JAM	1hr	Yes	-	-
				-	-	-	-	-	-	-	-	-	-
July	4 th W	3	Details of initiation, elongation & termination.	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

B. Sankar

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B. Anulekha

Signature of the Principal

M. Sankar

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018- 2019

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July	5 th	2	Regulation of transcription in Prokaryotes	-	-	-	-	-	-	-	-	-	-
Aug	1 st	3	Structure & Regulation of Lac operon.	-	YouTube Video	1hr	Yes	-	-	-	-	-	-
Aug	2 nd	3	Structure & Regulation of Trp operon.	Gal operon	YouTube Video	1hr	Yes	-	-	-	-	-	-
			Eukaryotic gene regulation -	-	-	-	-	-	-	-	-	-	-
	4 th	2	Galactose operon DNA cloning three enzymes	Ligases	Animation	1hr	Yes	-	-	-	-	-	-
			Basis of genetic Engineering. R- Endonucleases	Reverse transcriptases	Animation	1hr	Yes	-	-	-	-	-	-

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B. Savya

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S. Anuradha

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
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Aug	5 th	3	Vectors Ligation of DNA screening methods	BACs YACs	Text Book material	1hr	Yes	-	-	-	-	-	-
			genomic DNA library cDNA library PCR	-	-	-	-	-	-	-	-	-	-
Sept	1 st	1	Expression of cloned genes Exp. of Euk genes in Prokaryotes	-	-	-	-	-	-	Assignment	-	-	-
	2 nd	2	Designing of 1 st Apps of rDNA Technology.	-	-	-	-	-	-	-	-	-	-
	3 rd	3	II mid - sem										
	4 th	3	REVISION										
	5 th	4											
	6 th	3	Practical Exams followed by Semester exams										
Oct	1 st												

Signature of the Lecturer
B. Sanyal

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Shilpa