

ANNUAL CURRICULAR					PLAN I (Year)							
NAMR OF THE LECTURER B.DURGA PRASANNA					CLASS : IMPC & IMPC-II Semester : II							
					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
			Interference of light Introduction, conditions	-	-	-	-	-	-	-	-	-
	1 st	5	for Interference of light, Interference of light by division of wave front and amplitude, phase	-	-	-	-	-	-	-	-	-
JUN			change on reflection - Stokes treatment	-	-	-	-	-	-	-	-	-
			Lloyd's single mirror	-	will be show ppt	1	yes	-	-	-	-	-
	2 nd	5	Interference in thin films: plane	-	-	-	-	-	-	-	-	-
			parallel and wedge shaped films,	will be demonstrate with apparatus at Lab	-	-	-	-	-	-	-	-
			colors in thin films Newton's rings in	-	will be show youtube video	1	yes	-	-	-	-	-
			reflected light - Theory & Experiment	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN I (Year) wave optics								
NAME OF THE LECTURER B. Durga prasanna					CLASS : IMPC; IMPC-II Semester : II Paper : II								
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 rd	5	Determination of wavelength of monochromatic light	-	-	-	-	-	-	-	-	-	-
			Michelson interferometer and determination of wave length	-	will be show youtube video	1	yes	-	-	-	-	-	-
			Diffraction of light Introduction, Types	-	-	-	-	-	-	-	-	-	-
			of diffraction, Fresnel and Fraunhofer diffractions	-	-	-	-	-	-	-	-	-	-
			Distinction between Fresnel & Fraunhofer diffraction.	-	-	-	-	-	-	-	-	-	-
	4 th	5+2	Fraunhofer diffraction at a single slit	-	will be show ppt	1	yes	-	-	-	-	-	-
			Plane diffraction grating, Determination of wave length of light using diffraction grating	Diffraction grating demonstrated at Lab	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN I (Year)								
NAMR OF THE LECTURER <i>B. Durga prasanna</i>					CLASS : <i>IMPC-ii</i> Semester : <i>ii</i>				Wave optics Paper : <i>ii</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	
			Resolving power of gratings, Fresnel's half period zones.	-	will be show youtube video	1	Yes	-	-	-	-	-	-
			Explanation of rectilinear propagation of light;	-	-	-	-	-	-	-	-	-	-
			Zone plate, Composition of zone plate with convex lens	-	will be show youtube video	1	Yes	-	-	-	-	-	-
			Methods of production of plane polarized light, Double refraction, Brewster's law	-	-	-	-	-	-	-	-	-	-
			Malus law, Nicol prism, Nicol prism as polarizer & analyzer.	-	will be show youtube video	1	Yes	-	-	-	-	-	-
Sep	1 st	4											
	2 nd	4											
									Student Seminar	1	NO	17/9/21	

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ANNUAL CURRICULAR					PLAN I (Year)							
NAMR OF THE LECTURER <u>B. Durga prasanna</u>					CLASS : <u>IMPC</u> <u>IMPG-II</u>				Semester <u>II</u>			
					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
	3 rd	5	Quarter wave plate Half wave plate plane, circularly & elliptically Polarized light.	-	-	-	-	-	-	-	-	-
			Polarized light.	-	will be show youtube video	1	yes	-	-	-	-	-
			Production and detection, optical activity.	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
	4 th	5+3	Laurent's half shade Polarimeter determi- nation of specific rotation, Monochro- matic aberrations	Polarimeter demonstrate at Lab	will be show ppt	1	yes	-	-	-	-	-
			Spherical aberration, Minimizing spherical aberration, coma, Astigmatism Portico	-	-	-	-	-	-	-	-	-
			Lenses (i) in contact & (ii) Separated by a distance.	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR				PLAN I (Year)								
NAMR OF THE LECTURER <i>B. Durga prasanna</i>				CLASS : <i>IMPC-II</i>			Semester : <i>II</i>			Paper : <i>II</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>oct</i>	<i>1st</i>	<i>5</i>	<i>Fibre optics introduction, different types of fibers,</i>	-	-	-	-	-	-	-	-	-
			<i>rays and modes in an optical fiber,</i>	-	-	-	-	-	-	-	-	-
			<i>Principles of fiber communication (qualitative treatment only), Advantages of optical fiber communication.</i>	-	<i>will be show Youtube video</i>	<i>1</i>	<i>yes</i>	-	<i>Quiz</i>	<i>1</i>	<i>yes</i>	-
				-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
	<i>2nd</i>	<i>2</i>	<i>Lasers Introduction spontaneous emission,</i>	-	-	-	-	-	-	-	-	-
			<i>stimulated emission, population Inversion,</i>	-	-	-	-	-	-	-	-	-
			<i>Lasers principle.</i>	-	<i>will be show ppt</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-
	<i>3rd</i>	<i>5</i>	<i>Einstein coefficients</i>	-	-	-	-	-	-	-	-	-
			<i>Types of Lasers</i>	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN I (Year)								
NAMR OF THE LECTURER <i>B. Durga prasanna</i>					CLASS : <i>IMPC-II</i> Semester : <i>II</i>				Paper : <i>II</i> <i>wave optics</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>He-Ne laser, Ruby laser,</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Applications of lasers, Holography,</i>	<i>-</i>	<i>will be show youtube video</i>	<i>1</i>	<i>yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Basic principle of holography,</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Applications of holography</i>	<i>-</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 II (Year)											
NAMR OF THE LECTURER P. Siva Kumari					CLASS : II B.Sc (MPCS-2)				Semester : IV Semester				Paper : Thermodynamics & Radiation physics			
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				
May	1 st	5	UNIT-II Thermodynamics Introduction	-	-	-	-	-	-	-	-	-	-			
			Isothermal & adiabatic processes	System, Surroundings	-	1	-	-	-	-	-	-	-			
			Reversible & irreversible processes	Thermodynamic equilibrium	-	-	-	-	-	-	-	-	-			
			Carnot's Engine and its efficiency	-	will be shown in PPTS	1	Yes	-	-	-	-	-	-			
			Carnot theorem Second Law of thermodynamics	-	-	-	-	-	-	-	-	-	-			
May	2 nd	5	Kelvin's and Clausius statements	-	-	-	-	-	-	-	-	-	-			
			Entropy - physical significance	-	-	-	-	-	-	-	-	-	-			
			T-S diagram	-	-	-	-	-	-	-	-	-	-			
			Entropy of universe, change of entropy of perfect gas	Heat and work, concept of Temperature	-	-	-	-	-	-	-	-	-			

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ANNUAL CURRICULAR					PLAN II (Year)								
NAMR OF THE LECTURER P. Siva Kumari					CLASS : II B.Sc (MPCSE) Semester : IV				Paper : Thermodynamics & Radiation physics				
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	
May	3 rd	5	UNIT-III Introduction	-	-	-	-	-	-	-	-	-	-
			Thermodynamic potentials - Derivation	-	-	-	-	-	-	-	-	-	-
			of Maxwell's thermodynamic relations	-	will be shown in PPTS	1	Yes	-	-	-	-	-	-
			classius-clayperon's equation	-	-	-	-	-	-	-	-	-	-
			$\frac{C_p}{C_v} = \gamma$	-	-	-	-	-	-	-	-	-	-
			$C_p - C_v = R$	-	-	-	-	-	-	-	-	-	-
May	4 th	5	Joule Kelvin Effect	Stefan-Boltzmann Law using Maxwell's equations	-	-	-	-	-	-	-	-	-
			- Expression for Joule		-	-	-	-	-	-	-	-	-
			- Kelvin coefficient for perfect and Vander-waal's gas.		-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : II B.Sc			Semester : IV		Paper : Thermodynamics and Radiation physics			
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	
May	4th		UNIT - IV Introduction	phase change of 1 st order	-	-	-	-	-	-	-	-	-
			Joule Kelvin Effect Liquefaction of gas using porous plug expt.	-	-	1	-	-	-	-	-	-	-
			Distinction b/w adiabatic and Joule Thomson expansion	Liquid vapour curve, fusion curve, sublimation curve	will be shown in PPTS	1	Yes	-	-	-	-	-	-
June	1 st	5	Expression for Joule-Thomson cooling	-	-	-	-	-	-	-	-	-	-
			Liquefaction of helium	Liquification of hydrogen	will be shown in PPTS	1	Yes	-	-	-	-	-	-
			Kapitz's method	-	-	-	-	-	-	-	-	-	-
			Adiabatic demagnetisation	-	will be shown in posters	1	Yes	-	-	-	-	-	-
June	2 nd	5	Productions of low temperatures	-	-	-	-	-	-	-	-	-	-
			Applications of substances at low temperature	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : II B.Sc				Semester : IV		Paper : Thermodynamics & Radiation physics		
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	
			Effect of chloro and fluoro carbons on ozone layer	-	-	-	-	-	-	-	-	-	-
June	3 rd	5	MID-I EXAMS	-	-	-	-	-	-	-	-	-	-
June	4 th	5	UNIT-I Kinetic theory of gases Introduction	-	-	-	-	-	-	-	-	-	-
			Deduction of Maxwell's law of distribution of molecular speeds,	-	-	-	-	-	-	Group discussion	1	NO	18/8/21
			- Experimental Verification	-	-	-	-	-	-	-	-	-	-
			Mean free path	Average Speed \bar{c} most probable	will be shown in youtube videos	1	yes	-	-	-	-	-	-
				Speed C_p , and RMS Speed \bar{c}^2	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: P. SIVA KUMARI					CLASS: II B.Sc			Semester: IV		Paper: Thermodynamics & Radiation physics			
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	
July	1 st	5	Transport phenomena	Speed Cp, and RMS Speed	-	-	-	-	-	-	-	-	-
			viscosity of gases	-	-	-	-	-	-	Seminar	1	NO	9/8/21
			thermal conductivity	-	-	-	-	-	-	-	-	-	-
			Diffusion of gases	-	will be shown in PPTS	1	yes	-	-	-	-	-	-
July	2 nd	4	UNIT-VI 8. Quantum theory of Radiation	Thermal radiation	-	-	-	-	-	-	-	-	-
			Introduction - black body	Laws of thermal radiation Kirchoff's Laws	-	-	-	-	-	-	-	-	-
			Ferry's blackbody	-	will be shown in youtube videos	1	yes	-	-	-	-	-	-
			distribution of energy in the spectrum of a Black body	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : II B.Sc			Semester : IV		Paper : Thermodynamics & Radiation physics			
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	
July	3 rd	5	wien's displacement Law	-	will be shown in PPTS	1	Yes	-	-	-	-	-	-
			wien's Law	-	-	1	-	-	-	-	-	-	-
			Rayleigh Jeans Law	-	-	-	-	-	-	-	-	-	-
July	4 th	4	Quantum theory of radiation	-	will be shown in youtube videos	1	Yes	-	Debate	1	NO	12/8/21	-
			planck's Law-	-	-	-	-	-	-	-	-	-	-
			Measurement of radiation	-	-	-	-	-	-	-	-	-	-
			Types of pyrometers	-	-	-	-	-	-	-	-	-	-
Aug	1 st	5	Disappearing filament optical Pyrometer - expt.	Ferry total radiation Pyrometers	-	-	-	-	-	-	-	-	-
			Angstrom pyroheliometer	-	will be shown in posters	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)											
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : II B.Sc				Semester : IV				Paper : Thermodynamics & Radiation physics			
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				
Aug	1 st		Determination of solar constant	-	-	-	-	-	-	-	-	-	-			
			Effective temperature of Sun	-	-	-	-	-	-	-	-	-	-			
Aug	2 nd	5	problems on Revision classes above units.	-	-	-	-	Quiz	1	Yes	-	-	-			
			Revision classes	-	-	-	-	-	-	-	-	-	-			

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020- 2021

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER K. SIRISHA					CLASS I Bsc sem - II Semester I Bsc				Paper : II S.D solar energy				
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	1 st	2	Unit - I Sources a source of energy, solar radiation,	concept of zenith angle	-	-	-	-	-	-	-	-	-
			Solar radiation at earth's surface	& air mass	-	-	-	-	-	-	-	-	-
June	2 nd	2	Pyroheliometer Pyranometer sunshine recorder	Solar cook, structure of sun.	will be shown in YouTube vide	1	Yes	-	-	-	-	-	-
June	3 rd	2	Prediction of available solar radiation, solar	-	-	-	-	-	-	-	-	-	-
			energy - impact	once	-	-	-	-	-	-	-	-	-
June	4 th	2	Storage of solar energy solar pond	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020-21

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: K.SIRISHA					CLASS: I B.Sc		Semester: II		Paper: Solar Energy (S.D)				
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	
sep	1 st	2	Principle of convection of solar radiation into heat	Passive space heating and cooling system.	will be shown in PPT's	1	yes	-	-	-	-	-	-
			Flat plate collectors	-	-	-	-	-	-	-	-	-	-
sep	2 nd	2	mid exams	-	-	-	-	-	-	-	-	-	-
sep	3 rd	2	Concentrating collector, solar Thermal Power	Evacuated tube collector	will be shown in Posters	1	yes	-	-	-	-	-	-
			Plant, Solar Cookers.	-	-	-	-	-	-	-	-	-	-
sep	4 th	2	Solar hot water systems, solar dryers	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020-21

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :	Semester :			Paper :				
K. SIRISHA					IB-SC	II			Solar Energy (S.D)				
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	
			Solar distillation Solar green houses	-	-	-	-	-	-	-	-	-	-
OCT	1 st	2	Photovoltaic cell Ch - Unit III Solar Photovoltaic	Types of solar cells	will be shown in PPT's	1	yes	-	-	-	-	-	-
			cell and its working different types of solar cells.	-	-	-	-	-	-	-	-	-	-
OCT	2 nd	2	series and parallel connection Photovoltaic	Fabrication of solar modules	will be shown in youtube videos	1	yes	-	-	-	-	-	-
OCT	3 rd		applications	-	-	-	-	-	-	-	-	-	-
OCT	3 rd	2	Revision classes	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR				PLAN (Year)									
NAME OF THE LECTURER K. SIRISHA				CLASS : III B.Sc Semester : VI					Physics elective Paper Renewable energy				
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	
April	3 rd	4	Definition & units of energy, power, forms of energy,	-	-	-	-	-	-	-	-	-	-
			Energy flow diagram to earth. Role of energy in eco & social development	calculation of power cons option for a home	-	1	-	-	-	-	-	-	-
				will be show you tube videos	1	Yes	-	-	-	-	-	-	-
may	1 st	4	Environmental degradation due to energy production & utilization Air & water pollution, Depletion of ozone layer	-	-	-	-	-	-	-	-	-	-
				Soil pollution	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
	2 nd	3	Global warming Biological damage due to environmental degradation	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
	3 rd	4	Energy consumption in various sectors	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS : <u>III B.Sc</u> Semester : <u>VI</u> Paper : <u>Renewable energy</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	
			energy resources coal, oil, Natural gas, Nuclear & hydrogen power.	-	will be shown PPTs	1	yes	-	-	-	-	-	-
			energy resources available in India,	-	will be shown YouTube videos	1	yes	-	-	-	-	-	-
			urban & rural energy consumption	-	-	-	-	-	-	Debate	1	yes	-
			Nuclear energy - promise & future	-	-	-	-	-	-	-	-	-	-
June	1 st	4	Energy as a factor of limiting growth	Nuclear Reactor	will be shown posters	1	yes	-	-	Seminar	1	yes	-
			need for use of new & renewable energy sources	-	-	-	-	-	-	-	-	-	-
			Solar energy	Solar Flares's	-	-	-	-	-	-	-	-	-
	2 nd	4	spectral distribution, solar water	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>ITBSc</u>			Semester : <u>VI</u>		Paper : <u>Renewable energy</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	
			heating, solar cooker, solar cell, types.	-	will be shown PPT'S	1	Yes	-	-	-	-	-	-
			wind energy, Principle of wind energy conversion components of wind turbine	Disadvantages of wind energy	-	-	-	-	-	Quiz	1	Yes	-
	3 rd	4	operation & characteristics of a wind turbine	-	will be shown posters	1	Yes	-	-	Group discussion	1	Yes	-
	4 th		Applications of wind energy	-	-	-	-	-	-	-	-	-	-
June	4 th		ocean energy Introduction	-	-	-	-	-	-	-	-	-	-
July	1 st	4		-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>III B.Sc</u>			Semester : <u>VI</u>		Paper : <u>Renewable energy</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	
			Principle of OTEC Tidal power	-	-	-	-	-	-	-	-	-	-
	2 nd	4	Energy from waves Tidal energy	-	will be shown you tube videos	1	Yes	-	Group discussion	1	Yes	-	-
			Technologies.	Disadvantages of ocean Tidal energies	-	-	-	-	-	-	-	-	-
	3 rd	3	History of hydrogen production,	-	-	-	-	-	-	-	-	-	-
			Uses of hydrogen as fuel	-	-	-	-	-	-	-	-	-	-
	4 th	4+2	Energy from biomass sources, conversion of biomass to fuel, Aerobic & Anaerobic bioconversion, properties	Explain about Biogas plant	-	-	-	-	-	-	-	-	-
				-	will be shown PPT'S	1	Yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER					CLASS :				Semester :				Paper :			
P. RADHIKA					cluster C3				VI				Energy storage devry			
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				
May	1 st	5	Energy storage Introduction, Needs of energy storage	-	will be shown ppt's & Explained	1	Yes	-	-	-	-	-	-			
	2 nd	5	Different modes of energy storage, fly wheel, energy storage electrical & Magnetic	-	-	-	-	-	-	-	-	-	-			
			energy storage etc. capacitors, Electro-chemical energy storage.	-	-	-	-	-	-	-	-	-	-			
	3 rd	6	Thermo-chemical, photochemical, Electrochemical hydrogen for energy storage.	Thermal Energy storage	will be shown you tu be videos	1	Yes	-	-	-	-	-	-			
			Electrochemical energy storage systems . Batteries	-	-	-	-	-	-	-	-	-	-			
			primary & Secondary batteries	-	-	-	-	-	-	-	-	-	-			

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CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : P. Radhika					CLASS : Cluster			Semester : VI		Paper : Energy storage Devices			
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	6	Lithium, solid-state and molten solvent batteries, lead acid battery	-	will be shown PPT's & Explained	1	Yes	-	-	-	-	-	-
			Nickel cadmium, Advanced batteries Role of Carbon Nano tubes.	principle of Batteries	-	-	-	-	-	-	-	-	-
June	1 st	5	Superconducting magnetic energy storage system (SMES). capacitor, and	-	-	-	-	-	-	-	-	-	-
			battery - comparison b/w capacitor & battery.	Flow battery	-	-	-	-	-	-	-	-	-
	2 nd	6	supercapacitor applications of super capacitor	-	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			fuel cell definition difference b/w batteries and fuel cells.	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER : P. Radhika					CLASS : cluster C3			Semester : VI		Paper : Energy storage Devices			
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	
	rd 3	6	fuel cell component principle and working of fuel	pumped hydro systems	will be shown you tube videos	1	yes	-	-	-	-	-	-
			cell permonance characteristics efficiency of fuel cell	-	-	-	-	-	-	-	-	-	-
	th 4	6	Advantages & disadvantages of fuel cell.	-	-	-	-	-	-	-	-	-	-
	5th	3	classification on alkaline fuel cell.	compressed air storage	will be shown ppt's & Explained	1	yes	-	-	-	-	-	-
July	1st	3	phosphoric acid fuel cell molten carbonate fuel	-	-	-	-	-	-	-	-	-	-
	2nd	6	cell. Solid-oxide fuel cell	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : P. Radhika					CLASS : cluster		Semester : VI		Paper : Energy Storage Devices				
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 rd	5	I MID exams	—	will be shown you tube videos	1	Yes	—	—	—	—	—	—
	4 th	3	Molten carbonate fuel cell solid oxide fuel cell.	—	—	—	—	—	—	Quiz	1	Yes	—
Aug	1 st	6	Proton exchange membrane fuel cell.	Super conducting magnets	—	—	—	—	—	Seminar	1	Yes	—
	2nd	3	Applications of fuel cells, problems on above chapters.	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—

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2020-2021 Cluster

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ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER: CH. ANITHA					CLASS: Cluster Semester: II							
					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
April	3 rd	1	Introduction of cluster, solar energy	local appared time,	will be shown ppt's	1	yes	-	-	-	-	-
	4 th week	4	→ structure of sun, → solar constant	-	-	-	-	-	-	-	-	-
			→ concept of Zenith angle	equation of time	-	-	-	-	-	-	-	-
			→ air mass.	-	-	-	-	-	-	-	-	-
may	1 st week	4 hrs	→ declination angle hour angle	-	-	-	-	-	Seminar	1	NO	August 1 st week
			→ solar & surface azimuth angles	-	will be shown ppt's and Explained	1	yes	-	-	-	-	-
			→ direct and diffuse radiations	-	-	-	-	-	-	-	-	-
may	2 nd week	4 hrs	→ Solar intensity measurement pyrheliometer	-	-	-	-	-	-	-	-	-
			→ Kirchoff's law relation btw	-	-	-	-	-	-	-	-	-

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2020-2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :			Semester :		Paper :			
Ch. Anitha					Cluster C1			VI sem		Solar & Thermal			
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	
			absorptance, emittance, reflectance	-	-	-	-	-	-	-	-	-	-
may	3rd	4hs	→ selective surface preparation and characterisation	-	will be shown ppt's & Explained	1	Yes	-	-	-	-	-	-
			→ Types and applications of anti reflective coating	-	-	-	-	-	-	-	-	-	-
may	4th	4hos	→ Description of FPC, di	-	-	-	-	-	-	-	-	-	-
			→ Liquid heating type Energy	heat removal factor and collector flow factor	-	-	-	-	-	-	-	-	-
			balance Equation. Efficiency.	factor	-	-	-	-	-	-	-	-	-
June	1st	3hs	→ Temperature distribution on FPC.	-	will be shown PPTS & Explained	1	Yes	-	Quiz	1	NO	August 1st week	
			→ Def of fin efficiency & collector efficiency	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR

cluster

PLAN (Year)

NAMR OF THE LECTURER : Ch. Anitha

CLASS : cluster Semester : 5th Sem

Paper : Solar & Thermal Photovoltaic aspects

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	
			→ Evacuated tubular collectors	-	will be shown you tube videos	1	yes	-	-	-	-	-	-
June	2nd	4 hrs	→ physics of solar cell, types of interfaces	-	-	-	-	-	-	-	-	-	-
			→ photovoltaic effect	-	-	-	-	-	-	-	-	-	-
			→ Equivalent ckt of solar cell, op para	-	-	-	-	-	-	-	-	-	-
			→ series and shunt resistans	thin film solar cells.	-	-	-	-	Debate	1	NO	August 1st week	-
			→ its effect on cell efficiency	-	-	-	-	-	-	-	-	-	-
			→ Variation of efficiency with band gap and temperature	-	will be shown ppts and Explained	1	yes	-	-	-	-	-	-
June	4th	4 hrs	→ SHWS, types of SHWS	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER : Ch. Anitha					CLASS : C ₁		Semester : V sem		Paper : Solar Thermal				
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	
			→ standard method of testing the efficiency of SHWS	Energy storage in PV system	-	-	-	-	-	-	-	-	-
July	1st	4 hrs	→ passive Space heating.	-	will be shown you	1	yes	-	-	-	-	-	-
			→ passive Space cooling	-	tube videos	-	-	-	-	-	-	-	-
			→ solar desalinator	-	-	-	-	-	-	-	-	-	-
	2nd	3 hrs	→ solar dryer,	-	-	-	-	-	-	-	-	-	-
			→ solar thermal power generation	-	will be shown you tube videos	1	yes	-	-	-	-	-	-
			→ solar cell module assembly.	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)										
NAME OF THE LECTURER : Ch. Anitha					CLASS : cluster			Semester : I		Paper : Solar & Thermal photovoltaic systems					
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			
July	3rd	4hrs	→ steps involved in the fabrication of solar module	-	-	-	-	-	-	-	-	-	-		
				Bypass and blocking diodes	-	-	-	-	-	-	-	-	-	-	
				→ module performance	-	will be shown ppt's and explained	1	Yes	-	-	-	-	-	-	-
				→ module in series & parallel	-	-	-	-	-	-	-	-	-	-	-
July	4th	5hrs	→ module protection	-	-	-	-	-	Group discussion	1	NO	-	August 1st week		
			→ solar pv system and its components	-	will be shown you tube videos & explained	1	Yes	-	-	-	-	-	-		
			→ pv array	-	-	-	-	-	-	-	-	-	-	-	
Aug	1st		division	-	-	-	-	-	-	-	-	-			

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ANNUAL CURRICULAR					PLAN III (Year)								
NAMR OF THE LECTURER B. DURGA PRASANNA					CLASS : PHYSICS (C ₂) Semester : VI				Wind, Hydro, ocean, thermal Energies. Paper : C ₂				
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	
	1 st	4	Renewable Energy types, Introduction	Renewable Energy sources	-	-	-	-	-	-	-	-	-
May			wind Energy basis Explanation,	-	-	-	-	-	-	-	-	-	-
			wind generation meteorology of wind	-	-	-	-	-	-	-	-	-	-
	2 nd	4	world distribution of wind, wind speed variation	-	will be show ppt	1	yes	-	-	-	-	-	-
			with height, wind speed statistics, wind energy conversion principles.	Anemometer working	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
	3 rd	4	General Introduction Types and classification of WECS,	-	will be show youtube video	1	yes	-	-	-	-	-	-
			Power, torque and Speed characteristic	-	-	-	-	-	-	-	-	-	-
			Axial momentum theory.	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN III (Year)								
NAME OF THE LECTURER					CLASS : Cluster Semester : VI Paper : C2								
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+1	Blade element theory Rotor characteristics,	-	-	-	-	-	-	-	-	-	-
			maximum power Coefficient, wind pump, performance	Energy, Power relation	-	-	-	-	-	-	-	-	-
			analysis design Concept and testing.	-	-	-	-	-	-	-	-	-	-
Jun	1 st	4	Principle of wind Generation, wind	-	will be show ppt	1	yes	-	-	-	-	-	-
			Energy in India, Environmental impacts	-	-	-	-	-	-	-	-	-	-
			of wind farms. overview of micro, mini, small hydro systems.	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
	2 nd	4	Hydrology, Elements of pumps and turbine	-	will be show youtube video	1	yes	-	-	-	-	-	-
			Selection and design criteria of pumps and turbines	Different pumps construction & working	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN III (Year)								
NAME OF THE LECTURER					CLASS : <i>physics cluster</i> Semester : <i>VI</i> Paper : <i>C2</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>3rd</i>	<i>4</i>	<i>Speed & voltage regulation.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>ocean thermal- Introduction, Technology process.</i>	<i>-</i>	<i>will be show youtube video</i>	<i>2</i>	<i>yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>working principle</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>4th</i>	<i>4</i>	<i>electricity generation methods from OTEC</i>	<i>-</i>	<i>will be show youtube video</i>	<i>1</i>	<i>yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Advantages and disadvantages,</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>July</i>	<i>1st</i>	<i>4</i>	<i>applications of OTEC, origin and nature</i>	<i>-</i>	<i>will be show youtube video</i>	<i>1</i>	<i>yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>of tidal energy wave energy</i>	<i>Tidal energy conversion system</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Introduction.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>2nd</i>	<i>4</i>	<i>Basics of wave Energy motion,</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

Signature of the Lecturer

B. Durga Prasad

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

ANNUAL CURRICULAR					PLAN <u>IV</u> (Year)								
NAMR OF THE LECTURER					CLASS : <u>clust en</u> Semester : <u>VI</u>				Paper : <u>C2</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	
			Power in waves. Wave Energy	-	will be show youtube video	1	yes	-	-	-	-	-	-
			conversion devices	-	-	1	-	-	-	-	-	-	-
	3rd	4	Advantages and disadvantages	-	-	-	-	-	Quiz	1	NO	9/8/21	-
			Applications of wave Energy.	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
B. Durga Prasad

Signature of the HOD
K. S. S. S. S.

Signature of the Principal