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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : I B.Sc (MPCS) Semester : II				Paper : II PHYSICS Waves and oscillations				
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	2 nd	2	S.H.O & Solution	definitions of rest & motion	-	-	-	-	-	-	-	-	-
				frequency of vibration of a strings	-	-	-	-	-	-	-	-	-
	3 rd	5	SHM characteristics, torsional pendulum	Types of motion	will be demonstrated at lab	1	Yes	-	-	-	-	-	-
			Compound pendulum	-	will be demonstrated at lab	1	Yes	-	-	-	-	-	-
	4 th	4	Beats principle of Superposition	-	will be shown youtube videos	1	Yes	-	Seminar Quiz on waves and oscillations	1	Yes	-	-
			Combination of 2 perpendicular S.H. ratios 1:1 & 1:2	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
P. Siva Kumari

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CURRICULUM LECTURER WISE 2018- 2019

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS : I B.Sc (MPCS-1) Semester : II				Paper : II, waves & oscillations				
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 th	4	Lissajous figures, Damped harmonic oscillator.	-	will be shown in youtube	1	yes	-	-	-	-	-	-
			Energy considerations	Electrical oscillator	-	-	-	-	-	-	-	-	-
Dec	1 st	5	Comparison of damped & Undamped oscillator	-	-	-	-	-	-	-	-	-	-
	2 nd	5	Comparisons, Relaxation time Quality factor	Sharpness of resonator	-	-	-	-	-	-	-	-	-
			F.H.O, Amplitude & Velocity Resonance	-	will be shown in ppt's	1	yes	-	-	-	-	-	-
	3 rd	5	Fourier theorem	-	-	-	-	-	-	Quiz on waves and oscillations	1	yes	-

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CURRICULUM LECTURER WISE 2018- 2019

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : I B.Sc (MPCS-I) Semester : II				Paper : II waves & oscillations				
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	3 rd	5	Square wave Sawtooth wave	Applications of fourier theorem	-	-	-	-	-	-	-	-	-
	4 th	3	triangular wave	-	-	-	-	-	-	-	-	-	-
Jan	1 st	3	Cultural week	-	-	-	-	-	-	-	-	-	-
			problems	-	-	-	-	-	-	-	-	-	-
Jan	2 nd	3	transverse wave propagation along a stretched string	Sonometer Verification Laws	will be shown in youtube	1	yes	-	Debate on Damped & forced oscillations	1	yes	-	-
			I Mid Exams	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2018- 2019

ANNUAL CURRICULAR					PLAN I (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : I.B.Sc (MPCS-1) Semester : I				Paper : II Waves & oscillations				
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	3 rd		Pongal holidays	-	-	-	-	-	-	-	-	-	-
	4 th	4	Overtones & harmonics along a string clamped at both ends	-	will be demonstrated at lab	1	yes	-	-	-	-	-	-
			Energy transport	-	-	-	-	-	-	-	-	-	-
	5 th	3	General Solution	-	-	-	-	-	-	-	-	-	-
			Energy impedance	-	-	-	-	-	-	-	-	-	-
Feb	1 st	6	Long vibrations in bars	Boundary Conditions	will be shown in youtube	1	yes	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2018- 2019

ANNUAL CURRICULAR					PLAN I (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : I B.Sc (MPCS-1) Semester : I				Paper : II waves & oscillations				
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	
			bar fixed at both ends, Middle	-	-	-	-	-	-	-	-	-	-
Feb	2 nd	4	one end, tuning fork	-	-	-	-	-	-	-	-	-	-
			problems, Ultrasonics properties,	-	-	-	-	-	-	-	-	-	-
			detection methods	-	-	-	-	-	-	-	-	-	-
	3 rd	4	production Method determination	production of Ultrasonic by using transistor	-	-	-	-	-	-	-	-	-
			of Ultrasonics & Applications	SONAR	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2018- 20 19

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. SIVA KUMARI					CLASS : IB.Sc (MPCS-1) Semester : II				Paper : II Waves & oscillations				
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		II Mid Exams	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-	-
March	1 st	4	practical Exams		-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>KAMMILI SIRISHA</u>					CLASS : <u>IIM.PU</u>				Semester : <u>IV</u>		Paper : <u>IV</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	02	02	Thermodynamics intro duction, Isothermal & adiabatic Process	system, surro undings, Thermo dynamic	-	-	-	-	-	-	-	-	-
Nov	03	05	Reversible and irrever sible Process, Carnot's engine and its efficiency, Carnot's Theorem, second law	equilibrium	-	-	-	-	-	-	-	-	-
			of thermodynamics kelvins and claus statements, entropy Physical significance.	-	-	-	-	-	-	-	-	-	-
Nov	04	04	Change in entropy in reversible & irreversible process	Heat and work concept of Temperature	-	-	-	-	seminar	1	yes	-	-
			entropy and disorder, entropy of universe, T-S diagram and its uses, change of entropy of a perfect gas.	-	-	-	-	-	-	-	-	-	-
Nov	05	04	change of entropy when ice changes	-	seminar	-	-	-	seminar	1	yes	-	-

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS <u>ITMP</u>			Semester: <u>IV</u>		Paper: <u>IV</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	
			into steam, thermo dynamics Potentials Derivation of maxwell's	-	will be shown in PPT's	1	yes	-	-	-	-	-	-
			thermodynamic relations, clausius relation eqn's, derivation for ratio of specific heats	-	-	-	-	-	-	-	-	-	-
Dec	01	05	Derivation for difference of two specific heats for perfect gas, joule kelvin effect, joule kelvin effect expression for joule kelvin coefficient for perfect and vanderwall's gas	Stefan-Boltzmann law using maxwell's equations	-	-	-	-	Debate	1	yes	-	-
					will be shown in PPT's	1	yes	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
Dec	02	05	Introduction low temperature physics, Joule kelvin effect, Brown's Plug experiment, Joule expansion, Distinction b/w	Liquid vapour curve, Fusion curve, Sublimation curve	-	-	-	-	Debate	1	yes	-	-
					-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS : <u>Imp 2</u> Semester : <u>IV</u>				Paper : <u>IV</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	
			adiabatic and Joule Thomson expansion expression for Joule	-	-	-	-	-	-	-	-	-	-
			Thomson cooling, liquefaction of He	Liquefaction of hydrogen	-	1	-	-	-	-	-	-	-
Dec	3 rd	05	Kapitza's method, Adiabatic demagnetization, production of low temperatures, Applications of	-	will be shown in PPT's	1	yes	-	-	-	-	-	-
			substances at low temperature, effects of chloro & fluoro	-	will be shown in posters	1	yes	-	-	-	-	-	-
			Carbon on ozone layer	-	-	-	-	-	-	-	-	-	-
Dec	04	05	christmas holidays										
Jan	01		cultural and sports week										
Jan	02	05	mid I exam										

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>Impes 2</u> Semester : <u>IV</u>				Paper : <u>IV</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	03		PONGAL HOLIDAYS		-	-	-	-	-	-	-	-	-
Jan	04	04	Quantum theory of radiation, Introduction, Black body, Planck's black body, laws of thermal radiation,	Thermal radiation	will be shown in PPT'S	1	yes	-	-	-	-	-	-
			distribution of energy in the spectrum of black body	laws of thermal radiation,	-	-	-	-	-	-	-	-	-
			wien's displacement law, wien's law,	Kirchoff's law	will be shown in Youtube video	1	yes	-	-	-	-	-	-
Jan	05	04	Rayleigh-seans law, Quantum theory of radiation, Planck's law.	Rayleigh's total radiation pyrometer	-	-	-	-	-	-	-	-	-
			measurement of radiation, TYPES of Pyrometer	Polarising Pyrometer	-	-	-	-	-	-	-	-	-
Feb	01	02	experimental determination, Angstrom Pyrheliometer,		-	-	-	-	-	-	-	-	-

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NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS : <u>Impca</u> Semester : <u>IV</u>				Paper : <u>IV</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	03	05	Determination of solar const, Temp of sun, kinetic theory of gases	-	will be shown in PPTs	1	yes	-	-	-	-	-	-
			Introduction of molecular speeds experiment and verification	-	-	-	-	-	-	-	-	-	-
			Transport Phenomena, mean free path, viscosity of gases, Thermal conductivity, diffusion of gases problems	-	speed distribution curves with constant temperature	-	-	-	-	-	-	-	-
			Path, viscosity of gases, Thermal conductivity, diffusion of gases problems	-	will be shown in PPTs	1	yes	-	-	-	-	-	-
			Conductivity, diffusion of gases problems	-	Rms speed \bar{c}	-	-	-	-	-	-	-	-
Feb	04		mid-II exams	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>KAMMILI SIRISHA</u>					CLASS : <u>III B.Sc</u>			Semester : <u>VI</u>		Paper : <u>VI</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	02	02	Introduction to elective Paper	-	-	-	-	-	-	-	-	-	-
Nov	03	04	Definition and units of energy, Power forms of energy	Calculation of power consumption in a home	will be shown in PPT'S	1	yes	-	-	-	-	-	-
			energy flow diagram to the earth	-	-	-	-	-	-	-	-	-	-
			Role of energy in economic and social development.	-	-	-	-	-	-	-	-	-	-
Nov	04	04	Environmental degradation due to energy production and utilization	soil Pollution	will be shown in posters	1	yes	-	-	-	-	-	-
			air and water Pollution, depletion of ozone layer	-	-	-	-	-	-	-	-	-	-
			global warming biological damage due to environmental degradation	-	-	-	-	-	-	-	-	-	-
Nov	05	04	Energy resources available in India	-	-	-	-	-	-	Seminar	1	yes	-

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS: <u>III B.Sc</u>			Semester: <u>V</u>		Paper: <u>VI</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	
			Urban and rural energy consumption, nuclear energy,	-	will shown in PPT'S	1	yes	-	-	-	-	-	-
			promise of future energy as a factor limiting growth.	-	-	-	-	-	-	-	-	-	-
			need for use of new and renewable energy sources.	Nuclear Reactor	-	-	-	-	-	-	-	-	-
			energy consumption in various sectors, energy resources,	-	-	-	-	-	-	-	-	-	-
			coal, oil, natural gas, nuclear and hydroelectric power.	-	-	-	-	-	-	-	-	-	-
Dec	01	04	Solar energy, spectral distribution of radiation, solar water heating system.	Solar Flares	will shown in PPT'S	1	yes	-	Debate	1	yes	-	-
			Applications, solar cooker.	-	-	-	-	-	-	-	-	-	-
Dec	02	04	Solar cell, types of solar cell.	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER K. SIRISHA					CLASS : III B.Sc Semester : VI				Paper : VI				
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	
			wind energy introduction, principle of wind energy conversion.	Disadvantages of wind energy	-	-	-	-	-	-	-	-	-
			components of wind turbines, operation and characteristics of a wind turbine	-	will be shown in PPT'S	1	yes	-	-	-	-	-	-
			Application of wind energy.	-	-	-	-	-	-	-	-	-	-
Dec	04	04	christmas Holidays	-	-	-	-	-	-	-	-	-	-
Jan	01		cultural week	-	-	-	-	-	-	-	-	-	-
Jan	02	02	ocean energy introduction, principle of ocean thermal energy conversion	Disadvantages of Tidal energies	will be shown in youtube	1	yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>III B-SC</u>			Semester : <u>V</u>		Paper : <u>VI</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	04	03	Tidal Power generation, Tidal energy technologies, energy from waves	-	will be shown in PPT'S	1	yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
Jan	05	03	History of hydrogen energy, Hydrogen Production methods	-	-	-	-	-	-	-	-	-	-
			electrolysis of water, uses of hydrogen as fuel	-	-	-	-	-	-	-	-	-	-
Feb	05	04	Energy from biomass sources of biomass	Explained about bio	will be shown in Posters	1	yes	-	-	-	-	-	-
			conversion of biomass into fuel energy	gas plant	-	-	-	-	-	-	-	-	-
			Through fermentation, pyrolysis,	Biogas making process	-	-	-	-	-	-	-	-	-
			gasification & combustion -	-	-	-	-	-	-	-	-	-	-

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NAMR OF THE LECTURER: <u>K. SIRISHA</u>					CLASS: <u>III B.Sc</u>			Semester: <u>V</u>		Paper: <u>V Elective</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
			Aerobic and anaerobic bio conversion	-	will be shown in you tube videos	1	yes	-	-	-	-	-
			properties of biomass	-		1	-	-	-	-	-	-
			Characteristics of biogas	-		-	-	-	-	-	-	-

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :			Semester :		Paper :			
P. RADHIKA					cluster			VI		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	
NOV	2 nd	1	Energy storage Introduction, Needs of energy storage.	-	will be shown PPTS and explained	1	Yes	-	-	-	-	-	-
	3 rd	4	Different modes of energy storage fly wheel energy storage electrical & magnetic energy storage.	compressed air storage	-	-	-	-	-	-	-	-	-
			Capacitors electro magnetic chemical energy storage.	-	-	-	-	-	-	-	-	-	-
	4 th	3	Thermo chemical photochemical, Electrochemical Hydrogen for energy storage.	thermal energy storage-	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			Storage. Electrochemical energy storage system	-	-	-	-	-	-	-	-	-	-
			Batteries - primary secondary, lithium battery	-	-	-	-	-	-	-	-	-	-
	5 th	4	solid state and molten solvent batteries, lead acid battery	-	-	-	-	-	-	Seminar	1	Yes	-

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CURRICULUM LECTURER WISE 2018 - 2019.

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. RADHIKA					CLASS : III B.Sc 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	
			Nickel Cadmium batteries advanced batteries role of carbon nanotubes in electrodes.	principle of different types of batteries	will be shown ppt's and explained	-	-	-	-	-	-	-	-
Dec	1 st	4	Super conducting magnetic energy storage system (SMES), Capacitors and battery - comparison.	-	-	-	-	-	Quiz	1	Yes	-	-
	2 nd	4	Applications of super capacitor. Fuel cell definition difference b/w batteries and fuel cells.	-	will be shown you tube video of & explained	-	-	-	-	-	-	-	-
				Super. Conduc-tion magnets	-	-	-	-	-	-	-	-	-
	3 rd	4	fuel cell components principle and working of fuel cell,	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
P. Radhika

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

ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER P.RADHIKA					CLASS : III BSc				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				
Dec	4 th	2	Performance characteristics efficiency Advantages	-	will be shown you tube vidlog & Explained	-	-	-	-	-	-	-	-			
Jan	1 st	1	Advantages & disadvantages of fuel cell	pumped hydro systems	-	-	-	-	-	-	-	-	-			
	2 nd		Imid exams	-	-	-	-	-	-	-	-	-	-			
	3 rd		Pongal holidays	-	-	-	-	-	-	-	-	-	-			
	4 th	3	classification alkaline fuel cell phosphoric cell	-	will be shown ppt's & Explained	-	-	-	-	-	-	-	-			
	5 th	2	Molten Carbonate fuel cell Solide oxide fuel cell.	-	-	-	-	-	-	-	-	-	-			

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. RADHIKA					CLASS : III B.Sc cluster			Semester : VI		Paper : Energy Storage Device			
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	1 st	2	Proton exchange membrane fuel cell.	-	will be shown you tube videos	1	Yes	-	-	-	-	-	-
	2 nd	3	Applications of fuel cells.	compressed air storage	& Explained	-	-	-	-	-	-	-	-
	3 rd	3	Problems ^{on} are above chapters	-	-	-	-	-	-	-	-	-	-
	4 th	4	II mid exams	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Ch. Anitha</i>					CLASS: <i>cluster</i> Semester: <i>VI sem</i>				Paper: <i>Solar thermal & photovoltaic aspects</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	2nd	1	structure of sun	Local apparent time, Equation of time, Standard time	will be shown PPTS	1	Yes	-	-	-	-	-	-
	3rd	4	solar constant, concept of Zenith angle	air mass	and the topics are explained	-	-	-	-	-	-	-	-
			declination angle	-	-	-	-	-	-	-	-	-	-
			hour angle, solar & surface azimuth angle, direct & diffuse radiation	-	-	-	-	-	-	-	-	-	-
NOV	4th	3 hrs	solar intensity measurement	-	will be shown PPTS & Explained	1	Yes	-	Seminar	1	Yes	-	
			pyrheliometer	Black body	-	-	-	-	-	-	-	-	
			→ Kirchoff Law	-	-	-	-	-	-	-	-	-	
			relation b/w absorptance, Emissittance, reflectance	-	-	-	-	-	-	-	-	-	
			→ selective surface preparation and characterisation	-	-	-	-	-	-	-	-	-	

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2018-2019

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: CH. ANITHA					CLASS: C ₁			Semester: VI sem		Paper: solar ; thermal & photovoltaic			
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 & applications anti reflective coatings	-	-	-	-	-	-	-	-	-	-
	5 th	4	→ Description of FPC ; liquid heating	flow factor	will be shown PPTS & explained	1	Yes	-	-	-	-	-	-
			type Energy balance & efficiency	-	-	-	-	-	-	-	-	-	-
			→ Temperature distribution on FPC	concentrating collectors	-	-	-	-	-	-	-	-	-
			→ Definition of fin efficiency	-	-	-	-	-	-	-	-	-	-
			& collector efficiency	-	-	-	-	-	-	-	-	-	-
			→ evacuated tubular collectors	-	-	-	-	-	-	-	-	-	-
Dec	1 st	4 hrs	→ physics of solar cell types of interfaces	-	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			photovoltaic effect	-	-	-	-	-	-	-	-	-	-
			→ Equivalent ckt of solar cell. o/p parameters	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER CH. ANITHA					CLASS : C1		Semester : VI sem		Paper : solar thermal & photovoltaic aspect			
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
			→ series & shunt resistance & its effect on cell efficiency	thin film solar cells	will be shown models	1	Yes	-				
			variation of efficiency with band gap & temp	-	and Explain	-	-	-				
Dec	2nd	4th	→ SHWS, types of SHWS	-	-	-	-	-				
			→ standard method of testing the efficiency of SHWS	-	-	-	-	-				
			→ passive space heating	-	-	-	-	-				
Dec	3rd	4th	→ cooling concepts, → solar desalinator	storage of Energy	will be shown you	1	Yes	-				
			→ solar drier	-	tube videos	-	-	-				
			→ solar thermal power generation.	-	-	-	-	-				

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2018-2019

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER CH. ANITHA					CLASS : C1		Semester : VI sem		Paper : solar, thermal & photovoltaic aspect				
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	2	christmas holidays → solar cell	By pass diode	will be shown you	1	Yes	-	-	-	-	-	-
			module assembly.	Blocking diodes	tube videos & Explains	1	-	-	-	-	-	-	-
Jan	1st	1	cultural week → steps involved	-	-	-	-	-	-	-	-	-	-
			in the fabrication of solar module	-	-	-	-	-	-	-	-	-	-
Jan	2nd		Mid Exams	-	-	-	-	-	-	-	-	-	-
Jan	3rd		pongal holidays	-	-	-	-	-	-	Group discussion	1	Yes	-
Jan	4th	3	→ module performance	-	-	-	-	-	-	Debate	1	Yes	-
			→ IV characteristic	-	-	-	-	-	-	-	-	-	-
Jan	5th	2	→ module in series &	-	will be demonstrated in lab.	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER Ch. ANITHA					CLASS : cluster				Semester : VI 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				
			→ module in parallel	-	-	-	-	-	-	-	-	-	-			
Feb	1st	2	→ module protection	-	-	-	-	quiz	1	yes	-	-	-			
			→ solar pv systems	Importance of storage of Energy	-	-	-	-	-	-	-	-	-			
	2nd	3	→ solar pv systems audits components	-	will be shown on ppt's & Explained	1	yes	-	-	-	-	-	-			
			→ pv array	-	-	-	-	-	-	-	-	-	-			
	3rd	3	→ ppt oblenys on above chapters	-	-	-	-	-	-	-	-	-	-			
	4th	4	II mid Exams	-	-	-	-	-	-	-	-	-	-			

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2020

ANNUAL CURRICULAR					ANNUAL CURRICULAR PLAN II (Year)									
NAMR OF THE LECTURER B. DURGA PRASANNA					CLASS : PHYSICS cluster				Semester : VI		Paper : (C2) Wind, Hydro & Ocean 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		
NOV	2	3	Renewable Energy types	Sources of Renewable Energy	-	-	-	-	-	-	-	-		
NOV	3	3	Introduction of wind Energy basics explanation		-	-	-	-	-	-	-	-		
NOV	4	3	wind generation meteorology of wind	-	-	-	-	-	-	-	-	-		
DEC	1	3	world distribution of wind wind speed with height	-	-	-	-	-	-	-	-	-		
			wind speed statistics wind energy conversion principles	-	will be shown ppt	1	yes	-	-	-	-	-		
	2	3	General Introduction Types and classification of WECS,	WECS types and applications	-	-	-	-	-	-	-	-		
			power, torque and speed characteristics Axial momentum theory	-	-	-	-	-	-	-	-	-		

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <i>B. Surja prasanna</i>					CLASS : <i>Physics cluster</i>			Semester : <i>V</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>Blade element theory</i>	-	-	-	-	-	-	-	-	-
	3	3	<i>Rotor characteristics, maximum power coefficient,</i>	<i>Rotor types and working</i>	-	-	-	-	-	-	-	-
			<i>wind pump, performance, analysis design concept and testing.</i>	-	<i>will be shown youtube video</i>	1	yes	-	-	-	-	-
			<i>Principle of wind generation.</i>	-	-	-	-	-	-	-	-	-
			<i>Wind Energy in India</i>	-	<i>will be shown youtube video</i>	1	yes	-	-	-	-	-
			<i>Environmental impacts of wind farms.</i>	-	-	-	-	-	-	-	-	-

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B. Surja prasanna

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K. Srinivasulu

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

ANNUAL CURRICULAR					PLAN III (Year)								
NAMR OF THE LECTURER					CLASS : physics 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	2	christmas holi days	-	-	-	-	-	-	-	-	-	-
Jan	1	3	overview of micro, mini, small hydro systems, Hydrology	-	will be show youtube video	1	yes	-	-	-	-	-	-
			Elements of pumps and turbine	-	will be shown ppt.	1	yes	-	-	-	-	-	-
	2	2	selection and design criteria of pumps and turbines	-	-	-	-	-	-	-	-	-	-
			site selection	-	-	-	-	-	-	-	-	-	-
			I MID EXAMS	-	-	-	-	-	-	-	-	-	-
	3	4	<u>I MID EXAMS</u> Holidays	-	-	-	-	-	-	-	-	-	-

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B. Durga pragna

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

ANNUAL CURRICULAR					PLAN III (Year)							
NAMR OF THE LECTURER <i>B. Durga Prasanna</i>					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>4</i>	<i>4</i>	<i>Speed and Voltage regulation.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Ocean thermal- intro-duction, Technology process,</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>working principle, electricity generation methods from OCEC</i>	<i>-</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Advantages and disadvantages, Applications of OTEC</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Feb</i>	<i>1</i>	<i>3</i>	<i>origin and nature of tidal energy, wave Energy Intro-duction, Basis of wave Energy motion Power in waves</i>	<i>-</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Introduction, Basis of wave Energy motion Power in waves</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

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B. Durga Prasanna

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

ANNUAL CURRICULAR					PLAN IV (Year)							
NAMR OF THE LECTURER <i>B. Durga Prasanna</i>					CLASS : <i>physics cluster.</i>			Semester : <i>II</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>wave energy Conversion devices</i>	<i>-</i>	<i>will be show Youtube video</i>	<i>1</i>	<i>yes</i>	<i>-</i>	<i>Student Seminars</i>	<i>1</i>	<i>NO</i>	<i>11/2/19</i>
	<i>2</i>	<i>3</i>	<i>Advantages and disadvantages</i>	<i>-</i>	<i>will be Show youtube video</i>	<i>1</i>	<i>yes</i>	<i>-</i>	<i>quiz</i>	<i>1</i>	<i>NO</i>	<i>2/3/19</i>
			<i>Applications of coake Energy.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>3</i>	<i>3</i>	<u><i>II MID EXAMS</i></u>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

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