

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : I MPC-1		Semester : II		Paper : II wave optics				
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 <sup>st</sup>	4	UNIT-2 Interference of light - Introduction, conditions and types	Coherence, spatial coherence & temporal coherence	will be shown in youtube vedios	1	Yes	-	-	-	-	-	-
			Phase Change on reflection - stoke's treatment	-	-	-	-	-	-	-	-	-	-
			Lloyd's single mirror interference in thin films	will be mirrors of types explained	will be shown in PPTS	1	Yes	-	-	-	-	-	-
			Plan parallel and wedge - shaped films	-	will be shown in lab	1	Yes	-	-	-	-	-	-
June	2 <sup>nd</sup>	5	Colours in thin films Newton's rings in reflected light - Theory and experiment	With white light will also explain	will be shown in physics lab	1	Yes	-	-	-	-	-	-
			Determination of Wavelength of monochromatic light	-	demonstration in lab	1	Yes	-	-	-	-	-	-
			Michelson interferometer and determination of wavelength	-	-	-	-	-	-	Seminar	1	Yes	-

Jhansi Rani.ks  
Signature of the Lecturer

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

Signature of the Principal

SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM PLAN- LECTURER WISE 2021-22

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : 2 MPCs-1 Semester : II Paper : II Wave Optics								
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	3rd	5	UNIT-II Diffraction of light - Introduction, types of diffraction										
			distinction between fresnel and fraunhofer diffraction	Resultant of n simple harmonic motions	Demonstration in lab	1	Yes	-		Debate	1	Yes	-
			Fraunhofer diffraction at a single slit	-	-	-	-	-		-	-	-	-
			Plane diffraction grating.	-	Demonstration in lab	1	Yes	-		-	-	-	-
June	4th	5	Determination of wavelength of light using diffraction grating	-	-	-	-	-		-	-	-	-
			Resolving power of grating, Fresnel's half period zones	-	-	-	-	-		-	-	-	-
			Explanation of rectilinear propagation of light.	-	-	-	-	-		-	-	-	-
July	1st	5	Zone plate, comparison of zone plate with convex lens	single slit diffraction by Fraunhofer method	-	-	-	-		-	-	-	-

Jhansi Rani  
Signature of the Lecturer

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

  
Signature of the Principal

SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM PLAN- LECTURER WISE 2021-22

100

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : I MPCs-1 Semester : II Paper : II Wave optics								
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	
			Problems of Unit- II	-	-	-	-	-	-	-	-	-	-
			Unit- II Polarization of light-methods of production of plane polarized light	Longitudinal waves, Transverse waves	-	-	-	-	Quiz	1	Yes	-	-
			Double refraction, Brewster's law, Malus law.	-	-	-	-	-	-	-	-	-	-
July	2nd	5	Nicol prism, Nicol prisms as polarizer and analyzer.	-	-	-	-	-	-	-	-	-	-
			Quarter wave plate Half wave plate	-	-	-	-	-	-	-	-	-	-
			plane, circularly and elliptically polarized light	Representation of various types of light	Will be shown in PPTs.	1	yes	-	-	-	-	-	-
			Production and detection	-	-	-	-	-	-	-	-	-	-

Jhansi Rani  
Signature of the Lecturer

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

[Signature]  
Signature of the Principal

SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM PLAN- LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : I MPCS-1 Semester : II Paper : II wave optics								
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	5	optical activity, Laurent's half shade polarimeter	Biot's Polariscope	-	-	-	-	-	-	-	-	-
			Determination of specific rotation	-	-	-	-	-	-	-	-	-	-
			UNIT-IV Aberrations & fibers optics	Geometrical optics, physical optics	will be shown in PPTS	1	Yes	-	-	-	-	-	-
			Monochromatic aberrations, spherical aberrations	-	-	-	-	-	-	-	-	-	-
			Methods of minimizing spherical aberration,	-	-	-	-	-	Seminar	1	Yes	-	-
			Coma, Astigmatism, and curvature of field distortion	-	-	-	-	-	-	-	-	-	-
July	4th	5	Chromatic aberration the achromatic doublet.	-	-	-	-	-	-	-	-	-	-
			Achromatism for two lenses (i) in contact and	Deviation produced by a thin lens	-	-	-	-	-	-	-	-	-

Jhansi Rani  
Signature of the Lecturer

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

Signature of the Principal

SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

101

CURRICULUM PLAN- LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : I MPCs-1 Semester : I Paper : II wave optics								
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) Separated by a distance	—	—	—	—	—	—	—	—	—	—
			Sem-II Mid-exams	—	—	—	—	—	—	—	—	—	—
			Fiber-optics - Introduction to fibres	—	—	—	—	—	—	—	—	—	—
Aug	1 <sup>st</sup>	5	Different types of fibres, rays and modes in an optical fibers	Acceptance angle and numerical aperture	—	—	—	—	—	—	—	—	—
			Principles of fiber communication	—	will be shown in youtube	1	yes	—	—	—	—	—	—
			(qualitative only) Advantages of fibre communications	—	—	—	—	—	—	—	—	—	—
				—	will be shown in youtube videos	4	yes	—	—	—	—	—	—

Jhansi Rani  
Signature of the Lecturer

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

[Signature]  
Signature of the Principal

**SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU**

**CURRICULUM PLAN- LECTURER WISE 2021-22**

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : <u>I MPCs-1</u>		Semester : <u>I</u>		Paper : <u>I (Wave optics)</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	
Aug	2nd	4	Unit- I Lasers and Holography - Introduction	Holography with different images will explain.	-	-	-	-	-	-	-	-	-
			Spontaneous & Stimulated emission Population inversion	Absorption of radiation	will be shown in Posters	1	Yes	-	Debate	1	Yes	-	-
			Laser principle, Einstein Co-efficients	-	-	-	-	-	-	-	-	-	-
			Types of lasers, He-Ne laser.	Semiconductor laser will be explain.	will be shown in PPTs	1	Yes	-	-	-	-	-	-
Aug	3rd	3	Applications of laser, Ruby laser, Holography Principle of Holography.	-	-	-	-	-	-	-	-	-	-
			Applications of Holography	-	will be shown in youtube videos	1	Yes	-	-	-	-	-	-
Aug	4th	5	Unit- I, II Problems Explanation	-	-	-	-	-	-	-	-	-	-
			Unit- III, IV Problems.	-	-	-	-	-	-	-	-	-	-

*Jhansi Rani*  
Signature of the Lecturer

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

*[Signature]*  
Signature of the Principal

ANNUAL CURRICULAR					PLAN I (Year)								
NAME OF THE LECTURER : P. Siva Kumari					CLASS : I B.Sc		Semester : II		Paper : SD - 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 <sup>st</sup>	2	UNIT-I Introduction Sun as a source of energy	Concept of Zenith angle	-	-	-	-	-	-	-	-	-
			Solar Radiation	and air mass	-	-	-	-	-	-	-	-	-
			Solar Radiation at Earth's Surface	-	-	-	-	-	-	-	-	-	-
June	2 <sup>nd</sup>	2	Measurement of Solar Radiation-	-	-	-	-	-	-	-	-	-	-
			pyrheliometers , pyranometers	-	-	-	-	-	-	-	-	-	-
			Sunshine Recorder	-	-	-	-	-	-	-	-	-	-
June	3 <sup>rd</sup>	2	prediction of available Solar Radiation	Solar constant, structure of Sun	will be shown in youtube videos	1	Yes	-	-	-	-	-	-
			Solar energy- Importance	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

P. Siva Kumari

Signature of the HOD

K. Srinivas

Signature of the Principal

S. Srinivas

SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM PLAN- LECTURER WISE 2020-2022

ANNUAL CURRICULAR					PLAN I (Year)								
NAME OF THE LECTURER : P. SIVA KUMARI					CLASS : I B.Sc		Semester : II		Paper : (SD) - 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	4 <sup>th</sup>	2	Storage of Solar energy	-	-	-	-	-	-	-	-	-	-
			Solar pond	-	-	-	-	-	-	-	-	-	-
July	1 <sup>st</sup>	2	UNIT-II principle of conversion of Solar radiation into heat	-	-	-	-	-	-	-	-	-	-
			Flat plate collectors Concentrating collectors	Evacuated tube collectors	will be shown on youtube videos	1	Yes	-	-	-	-	-	-
July	2 <sup>nd</sup>	2	Solar thermal power <del>plant</del> plant	passive space heating & cooling system	-	-	-	-	-	-	-	-	-
			Solar Cookers	-	-	-	-	-	-	-	-	-	-
July	3 <sup>rd</sup>	2	Solar hot water systems, Solar dryers	-	will be shown on PPT'S	-	-	-	-	-	-	-	-
			Solar distillation	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

P. Siva Kumari

Signature of the HOD

Signature of the Principal



**SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM PLAN- LECTURER WISE 2021-22**

103

ANNUAL CURRICULAR					PLAN I (Year)								
NAME OF THE LECTURER : P. SIVA KUMARI					CLASS : I B.Sc		Semester : II		Paper : (SD) - 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	
July	4 <sup>th</sup>	2	Sem-II MID-I Exams	-	-	-	-	-	-	-	-	-	-
Aug	1 <sup>st</sup>	2	Solar green houses	Types of Solar Cells	-	-	-	-	-	-	-	-	-
	0		UNIT-III Photovoltaic Effect	-	-	-	-	-	-	-	-	-	-
Aug	2 <sup>nd</sup>	2	Solar photovoltaic cell, and its working	-	-	-	-	-	-	-	-	-	-
			Different types of Solar Cells	-	will be shown on youtube videos	1	Yes	-	-	-	-	-	-
Aug	3 <sup>rd</sup>	2	Series and parallel connections of Solar cells	Fabrication of Solar modules	-	-	-	-	-	-	-	-	-
			Applications of PV Systems	-	-	-	-	-	-	-	-	-	-
			Revision classes	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

P. Siva Kumari

Signature of the HOD

Signature of the Principal

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>k. srisila</i>					CLASS : <i>II BSc</i>		Semester : <i>IV - IVA</i>		Paper : <i>IV Electricity magnetism &amp; electronics</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>May</i>	<i>1<sup>st</sup></i>	<i>3</i>	<i>Unit 2 Gauss's law- statement and its proof, electric field intensity due to uniformly charged sphere and an infinite conducting sheet of charge, deduction Coulomb's law from Gauss law.</i>	<i>electric flux &amp; charge</i>	-	-	-	-	-	-	-	-	-
			<i>Intensity due to uniformly charged sphere and an infinite conducting sheet of charge, deduction Coulomb's law from Gauss law.</i>	<i>electric field and intensity of electric field</i>	-	-	-	-	-	-	-	-	-
			<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	-	-	-	-	-	-	-	-	-	-
<i>May</i>	<i>2<sup>nd</sup></i>	<i>4</i>	<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	-	-	-	-	-	-	-	-	-	-
			<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	<i>will be shown youtube</i>	-	1	yes	-	-	-	-	-	-
			<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	<i>Potential due to a point charge</i>	-	-	-	-	-	-	-	-	-
			<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	<i>charge</i>	-	-	-	-	-	-	-	-	-
			<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	<i>will be shown in PPT'S</i>	-	1	yes	-	-	-	-	-	-
			<i>Electrical Potential equipotential surfaces, Potential due to uniformly charged sphere, Dielectrics, Polar and non-polar dielectrics- effect of electric field on dielectrics, dielectric strength.</i>	<i>Dielectric atomic view</i>	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
*k. srisila*

Signature of the HOD  
*k. srisila*

Signature of the Principal  
*[Signature]*

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: K. SIRISHA					CLASS: IIB.Sc			Semester: IV		Paper: IVA			
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 <sup>rd</sup>	4	Capacitance of a parallel plate condenser with dielectric slab between the plates	Non Polar dielectrics in an electric field	will be shown some components	1	Yes	-	-	-	-	-	-
			Electric displacement D, Electric Polarization P, Relation between D, E and P.	-	-	-	-	-	-	-	-	-	-
May	4 <sup>th</sup>	4	Dielectric constant and electric susceptibility, Biot-Savart's law and its application	Types of Polarization and Polarizabilities.	will be show ppt's	1	Yes	-	-	-	-	-	-
			circular loop and solenoid	-	-	-	-	-	-	-	-	-	-
June	1 <sup>st</sup>	2 hrs	Ampere's circuital law and its	-	Demonstration given	1	Yes	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

[Signature]

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS : <u>II B.Sc</u>			Semester : <u>IV</u>		Paper : <u>IVA</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	
			application to solenoid Hall effect, determ	-	-	-	-	-	-	-	-	-	-
			ination of Hall coefficient and	-	-	-	-	-	-	-	-	-	-
June	2 <sup>nd</sup>	4	applications, Faradays laws	Losent 2 force	will be shown you tube videos	1	yes	-	-	-	-	-	-
			of electromagnetic induction,	-	-	-	-	-	-	-	-	-	-
			Lenz's law, self induction and	-	-	-	-	-	-	-	-	-	-
			mutual induction, self inductance of	-	will be shown PPT'S	1	yes	-	-	-	-	-	-
			a long solenoid	-	-	-	-	-	-	-	-	-	-
June	3 <sup>rd</sup>	4	Mutual inductance of two coils,	Induced e.m.f,	will be shown Posters	1	yes	-	-	-	-	-	-
			energy stored in M.F, eddy currents	change of magnetic flux	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

K. Sirisha

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>IBSC</u>			Semester : <u>IV</u>		Paper : <u>IVA</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
			Alternatic current	-	-	-	-	-	-	-	-	-
June	4 <sup>th</sup>	4hrs	Relation between current and voltage in L,C,R, LR and CR circuits, phasor and vector diagram	Coefficient of coupling	will be shown you tube videos	1	yes	-	-	-	-	-
			LCR series and Parallel resonant circuit, $Q$ -factor Power factor	-	-	-	-	-	-	-	-	-
June	5 <sup>th</sup>	2hr	Idea of displacement current, Maxwell's equations, Derivative Maxwell's wave equation (with derivation.	conduction current and displacement current	will be shown PPT'S	1	yes	-	-	-	-	-
			velocity of electromagnetic waves	-	-	-	-	-	-	-	-	-
July	1 <sup>st</sup>	2hrs	Transverse nature of electromagnetic waves	-	will be shown some experiments	1	yes	-	-	-	-	-

Signature of the Lecturer

K.Sirisha

Signature of the HOD

K.Sirisha

Signature of the Principal

[Signature]

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS : <u>II B.Sc</u> Semester : <u>IV</u>				Paper : <u>IVA</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	
July	2 <sup>nd</sup>	4 hrs	Poynting theorem (statement and proof)	-	-	-	-	-	-	-	-	-	-
			velocity of a wave equation	-	-	-	-	-	-	-	-	-	-
			using maxwells relations in vacuume	-	-	-	-	-	-	-	-	-	-
July	3 <sup>rd</sup>	4 hrs	PN junction diode, Zener diode and Light emitting diode	Semiconductors and its examples	Demonstration given in lab	1	Yes	-	-	-	-	-	-
			I-V characteristics Zener diode as a regulator, Transistors and its operation	Doping, Types of doping	Demonstration given in lab	1	Yes	-	Debate	1	Yes	-	-
									Seminar	1	Yes	-	-

Signature of the Lecturer

*K. Sirisha*

Signature of the HOD

*K. Sirisha*

Signature of the Principal

*[Signature]*

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>II B.Sc</u>			Semester : <u>IV</u>		Paper : <u>IVA</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
July	5 <sup>th</sup>	4hrs	CB, CE, and CC configuration	-	will be show n PPT'S	1	yes	-	-	-	-	-
			Input and output characteristics	-	-	-	-	-	-	-	-	-
			of a Transistor in CE mode	-	-	-	-	-	-	-	-	-
Aug	1 <sup>st</sup>	4hrs	Relation between alpha, beta and gamma Transistor as an amplifier	-	will be shown in youtube vid	1	yes	-	-	-	-	-
			Number systems conversion of binary to decimal system and vice versa, Binary addition and Binary subtraction	-	will be shown PPT'S	1	yes	-	-	-	-	-
			generation processing of Hexa to octa	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

[Signature]

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021-22**

107 - 2-

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS	Semester	Paper			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	
Aug	3 <sup>rd</sup>	2 hrs	Laws of Boolean algebra, Demorgan's laws-state	-	will be shown PPT'S	1	yes	-	-	-	-	-	
			ments and proof Basic logic gates NAND and NOR	-	-	-	-	-	-	-	-	-	
			as universal gates, exclusive OR Gate, Half adder and full adder circuits.	-	will be shown youtube vid eos	1	yes	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	

Signature of the Lecturer  
 k. sirisha

Signature of the HOD  
 k. sirisha

Signature of the Principal



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

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER					CLASS : <u>II B-sc</u>				Semester : <u>IV</u>		Paper : <u>Modern physics.</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
June	2 <sup>nd</sup>	4	Matter waves, de- Broglie's hypothesis wave length of matter waves, properties,	photo electric effect	-	-	-	-	-	-	-	-
			Devison & Germer's exp. Phase & Group velocities.	-	Youtube video's will be	1	yes	-	-	-	-	-
	3 <sup>rd</sup>	4	Heisen berg's uncertainty principle,	Applications & uncertainty principle	shown	-	-	-	Seminar	1	yes	-
			Gamma ray Micro scope, Bohr's Complementary principle, Problem.	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	4	Postulates of Q.M, Schrodinger time dependent & time	-	PPT's will be shown	-	-	-	Debate	1	yes.	-
			independent wave eqn. physical interpretation, Eigen functions & values.	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

*M. Jaya Lakshmi Devi*

Signature of the HOD

*K. Srinivas*

Signature of the Principal

*Savya*

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

<b>ANNUAL CURRICULAR</b>					<b>PLAN (Year)</b>								
NAMR OF THE LECTURER <u>M. Jaya lakshmi Devi</u>					CLASS : <u>BH.P.C-I</u>		Semester : <u>IV</u>		Paper : <u>Modern Physics</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	
May	1 <sup>st</sup>	4	Introduction to AMP, vector Atom Model.	Structure of Atom Bohr's draw backs.	-	-	-	-	-	-	-	-	-
			stern Gerlach expt Quantum numbers, Angular momentum.	-	PPT's will be shown	1	Yes	-	-	-	-	-	-
	2 <sup>nd</sup>	1	Coupling Schemes Spectral terms notations,	-	-	-	-	-	-	-	-	-	-
			Selection rules Intensity Rules	-	-	-	-	-	-	-	-	-	-
			3 <sup>rd</sup> week & 4 <sup>th</sup> week of May	-	-	-	-	-	-	-	-	-	-
June	1 <sup>st</sup>	4	Fine structure, Zeeman effect, Raman effect,	Stark effect experimental proof.	-	-	-	-	-	-	-	-	-
			Experimental arrangement & Quantum theory.	-	Youtube video's will be shown	1	Yes	-	-	-	-	-	-

Signature of the Lecturer

*M. Jaya Lakshmi Devi*

Signature of the HOD

*K. Srinivas*

Signature of the Principal

*M. Jaya Lakshmi Devi*

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>M. Jaya lakshmi Devi</i>					CLASS : <i>II B.Sc</i>			Semester : <i>IV B</i>		Paper : <i>Modern Physics</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	
July	1 <sup>st</sup>	4	1-D Box. 3-D Box.	Harmonic oscillator	PPT's will be shown	1	Yes	-	-	Group Discussion	1	Yes	-
			Basic properties of nucleus.	-	-	-	-	-	-	-	-	-	-
	2 <sup>nd</sup>	3	Mid Exam. B-E energy nuclear forces,	-	-	-	-	-	-	-	-	-	-
	3 <sup>rd</sup>	4	Liquid drop Model Shell Model	Nuclear Radiations; Reactions.	You tube videos will be shown	1	Yes	-	-	Quiz	1	Yes	-
			GM counter cloud chamber. solid state detector.	-	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	4	Elementary particles Nanomaterials	-	PPT's will be shown	-	-	-	-	-	-	-	-
			Properties, classification Distinct properties.	-	-	-	-	-	-	-	-	-	-
Aug	1 <sup>st</sup>	4	Applications of nano materials.	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

*M. Jaya Lakshmi Devi*

Signature of the HOD

*K. S. S. S. S.*

Signature of the Principal

*[Signature]*

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>M. Jaya lakshmi Devi</i>					CLASS : <i>II B.Sc</i>				Semester : <i>IV</i>		Paper : <i>Modern physics</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>Aug</i>	<i>1<sup>st</sup></i>		<i>Introduction to Superconductivity, Experimental results</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
	<i>2<sup>nd</sup></i>	<i>-</i>	<i>Practical</i>	<i>-</i>		<i>-</i>	<i>+</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
			<i>Exam S.</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
	<i>3<sup>rd</sup></i>	<i>4</i>	<i>Critical field, Meissner effect, Type I &amp; II Superconductors.</i>	<i>B</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
			<i>BES Theory Applications.</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
	<i>4<sup>th</sup></i>	<i>4</i>	<i>(II Mid Exam) P.F Exam</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
			<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>
<i>SEP</i>	<i>1<sup>st</sup></i>		<i>Theory Exam</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</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

*M. Jaya*

Signature of the HOD

*K. S. S. S.*

Signature of the Principal

*K. S. S. S.*

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>k.sivigla</i>					CLASS : <i>III B.Sc</i> Semester : <i>VI</i> Paper : <i>Elective Renewable energy</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>April</i>	<i>3<sup>rd</sup></i>	<i>4</i>	<i>Introduction to energy, Definition units</i>	-	-	-	-	-	-	-	-	-	-
			<i>of energy, Power, forms of energy, energy flow diagram</i>	<i>Calculation of power, conversion factors</i>	-	-	-	-	-	-	-	-	-
	<i>4<sup>th</sup></i>	<i>4</i>	<i>Role of energy in economic &amp; social</i>	-	<i>will be shown you tube videos</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-	-
			<i>development Environment mental degradation Air &amp; water Pollution</i>	-	-	-	-	-	-	-	-	-	-
<i>may</i>	<i>1<sup>st</sup></i>	<i>4</i>	<i>Depletion of ozone layer, Global</i>	<i>soil Pollution</i>	-	-	-	-	-	-	-	-	-
			<i>warming, Biological damage due to environment degradation</i>	-	-	-	-	-	-	-	-	-	-
			<i>energy consumption in various sectors</i>	-	-	-	-	-	-	-	-	-	-
<i>may</i>	<i>2<sup>nd</sup></i>	<i>1</i>	<i>Energy resources coal, oil, Natural Gas, Nuclear &amp; hydroelectric power</i>	-	<i>will be shown ppt</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
*k.sivigla*

Signature of the HOD  
*k.sivigla*

Signature of the Principal  
*[Signature]*

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>III B.Sc</u>			Semester : <u>VI</u>		Paper : <u>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	
June	1 <sup>st</sup>	4	Energy resources available in India urban & rural		will be shown PPT'S	1	Yes	-	-	-	-	-	-
			energy consumption Nuclear energy - promise & future			1		-	-	-	-	-	-
	2 <sup>nd</sup>	4	Energy as a factor of limiting growth	Nuclear Reactor	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			need for use of new & renewable energy sources		-	-	-	-	-	-	-	-	-
			Solar energy,		-	-	-	-	-	-	-	-	-
	3 <sup>rd</sup>	4	spectral distribution of radiation, solar water		will be shown Posters	1	Yes	-	-	-	-	-	-
			heating, solar cooker, solar cell, types of solar cell	Solar panel's	-	-	-	-	-	-	-	-	-
			solar cell		-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	4	principle of wind energy conversion	Disadvantages of wind energy	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

[Signature]

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS : III B.Sc Semester : VI Paper : Elective								
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	
			Components of wind turbines	-	✓	-	-	-	-	-	-	-	-
			Applications,	-	-	-	-	-	-	-	-	-	-
July 1 <sup>st</sup>		4	Principle of ocean Thermal energy conversion, Tidal Power generation	-	will be shown you tube videos	1	yes	-	-	Seminar	1	yes	-
			Tidal energy	Disadvantages of ocean, tidal energies	-	-	-	-	-	Seminar	1	yes	-
			Technologies, energy from waves	-	-	-	-	-	-	-	-	-	-
July 2 <sup>nd</sup>		2	I mid exam	-	-	-	-	-	-	Group discussion	1	yes	-
			History of Hydrogen Production method	-	-	-	-	-	-	Debate	1	yes	-
			Applications.	-	-	-	-	-	-	-	-	-	-
July 3 <sup>rd</sup>		4	Biomass uses, conversion into fuels, properties	Explain about Biogas plant	will be shown PPTs	1	yes	-	-	Quiz	1	yes	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU  
CURRICULUM LECTURER WISE 2021-22

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>III BSC</u> Semester : <u>VI</u>				Paper : <u>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	
			<u>of Biogas . Aerobic &amp; Anaerobic bioconversion</u>	-	-	-	-	-	-	-	-	-	-
<u>July</u>	<u>4<sup>th</sup></u>	<u>4</u>	<u>Final Theory exams</u>	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

[Signature]



**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2019 - 2020<sup>21</sup>**

117

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. RADHIKA					CLASS : cluster(C <sub>2</sub> )			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	
April	3 <sup>rd</sup>	4	Energy Storage - Introduction, Need of energy storage.	-	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			Different modes of energy storage fly wheel energy storage electrical & magnetic	Compressed air storage	-	-	-	-	-	-	-	-	-
			energy storage capacitors electro magnetic chemical	-	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	4	Energy Storage Thermo chemical, photo-Chemical	-	-	-	-	-	-	-	-	-	-
			Electrochemical Hydro gen for energy storage Electrochemi	Thermal Energy Storage	will be shown PPTS & Explained	1	Yes	-	-	-	-	-	-
			energy Storage systems Batteries - primary, Secondary batteries	-	-	-	-	-	-	-	-	-	-

*P. Radhika*  
Signature of the Lecturer

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

*[Signature]*  
Signature of the Principal

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. RADHIKA					CLASS : III B.Sc	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	
May	1 <sup>st</sup>	4	Lithium battery solid state and molten state batteries, lead acid battery.	principle of different types of batteries	will be shown models and explained	1	Yes	-	-	-	-	-	-
			Nickel cadmium, Advanced batteries Role of Carbon Nano tubes in Electrodes.		-	-	-	-	-	-	-	-	-
	2 <sup>nd</sup>	1	UNIT-3 Introduction Capacitor & Battery	Super conducting magnets.	-	-	-	-	-	-	-	-	-
June	1 <sup>st</sup>	4	Super conducting magnetic energy storage system.		will be shown PPT's & explain	1	Yes	-	-	-	-	-	-
			Super Capacitor Comparison b/w Capacitor & battery.		-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
*P. Radhika*

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

*M. S. S.*  
 Signature of the Principal

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: P. RADHIKA					CLASS: III C3			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	
	2nd	4	Applications of capacitor & batteries.	-	will be shown models & explained	1	Yes	-	-	-	-	-	-
			UNIT-IV Introduction Fuel cell definition	-		1	-	-	-	-	-	-	-
			difference b/w batteries and fuel cells.	-		-	-	-	-	-	-	-	-
	3rd	4	Fuel cell components principle & working of fuel cell.	pumped hydro systems		-	-	-	-	-	-	-	-
			performance characteristics efficiency of fuel cell.	-		-	-	-	-	-	-	-	-
	4th	4	Advantages and disadvantages of fuel cell.	-	will be shown PPTS & explained	1	Yes	-	-	-	-	-	-
			UNIT-5 Introduction, classification:	-		-	-	-	-	-	-	-	-

Signature of the Lecturer  
P. Radhika

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

Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU  
CURRICULUM LECTURER WISE 2021-22

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER : P. Radhika					CLASS : cluster Semester : VI				Devices Paper : Energy storage			
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 <sup>st</sup>	4	Alkaline fuel cell, phosphoric acid	Compressed air storage	will be shown	1	Yes	-	Seminar	1	Yes	-
			fuel cell, Molten - Carbonate fuel cell,	-	you tube videos	1	-	-	-	-	-	-
			Solid oxide fuel cell,	-	-	-	-	-	-	-	-	-
July	2 <sup>nd</sup> - 3 <sup>rd</sup>	284	I - MID Exams	-	-	-	-	-	-	-	-	-
			proton exchange membrane, Application	-	will be shown PPTs & explained	-	-	-	-	-	-	-
	4 <sup>th</sup>	4	Final theory exams.	-	-	-	-	-	Quiz	1	Yes	-

Signature of the Lecturer

P. Radhika

Signature of the HOD

Signature of the Principal

cluster 112 ch. Anitha  
solar thermal & photovoltaic aspects

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER CH. ANITHA					CLASS : <sup>V sem</sup> Cluster				Semester : <sup>V sem</sup> 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	
April	3 <sup>rd</sup>	4	structure of sun solar constant, concept of zenith angle, air mass	Equation of time and	will be shown ppt's and Explain	1	Yes	-	-	-	-	-	-
			declination angle hour angle, solar & surface azimuth	local apparent time, standard time	-	-	-	-	-	-	-	-	-
			angle, direct & diffuse radiation	-	-	-	-	-	-	-	-	-	-
April	4 <sup>th</sup>	4	solar intensity measurement pyrheliometer → kirchoff's law	-	will be shown models and Explained	1	yes	-	-	-	-	-	-
			relation b/w absorptance, emittance, reflectance	-	-	-	-	-	-	-	-	-	-
			→ selective surface preparation, and characteri- zation.	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
Ch. Anitha

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

Signature of the Principal  
[Signature]

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :	Semester :	Paper :						
CH. ANITHA					C1	V Sem	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	
			types & applications anti reflective coatings.	-	-	-	-	-	-	-	-	-	-
May	1st	4	→ Description of FPC liquid heating type energy balance Eqn efficiency.	concentrating collectors	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			→ Temperature distribution on FPC → Definition of fin efficiency & collector efficiency	heat removal factor and flow factor	-	-	-	-	-	-	-	-	-
			→ Evacuated tubular collectors	-	-	-	-	-	-	-	-	-	-
May	2nd	1	physics of solar cell, types of interfaces, photo-voltaic effect	-	will show PPT's & Explained	1	Yes	-	-	-	-	-	-
June	1st	4	→ Equivalent circuit of solar cell → O/P parameters	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

Ch Anitha

Signature of the HOD

K. S. S. S.

Signature of the Principal

[Handwritten Signature]

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021- 20 22**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: <i>CH. ANITHA</i>					CLASS: <i>C1</i>		Semester: <i>V sum</i>		Paper: <i>solar thermal &amp; photo voltaic 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	
			<i>→ Series &amp; shunt resistance &amp; its effect on cell</i>	<i>Types of solar cells</i>	<i>will be shown you tube videos</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>efficiency, variation of efficiency with band gap and temperature</i>	<i>Bypass &amp; Blocking diodes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>June</i>	<i>2nd</i>	<i>4</i>	<i>solar hot water systems, Types of solar</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Seminar</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>
			<i>hot water systems, standard method of testing the</i>	<i>-</i>	<i>will be shown you tube videos</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Efficiency of solar hot water systems</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>June</i>	<i>3rd</i>	<i>4</i>	<i>passive space heating, passive space</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Debate</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>

Signature of the Lecturer  
*Ch. Anitha*

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

Signature of the Principal  
*[Signature]*

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021- 20 22

ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER					CLASS :	Semester :	Paper :									
CH. ANITHA					cluster				B		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				
			cooling concepts, solar desalinator	-	will be shown you	1	Yes	-	-	-	-	-	-			
June	4 <sup>th</sup>	4	solar thermal power generation, solar cell module assembly.	mechanical storage	tube videos	-	-	-	-	-	-	-	-			
			steps involved in the fabrication of solar module.	-	-	-	-	-	-	-	-	-	-			
July	1 <sup>st</sup>	4	module performance I-V characteristics	Super Capacitors	-	-	-	-	-	-	-	-	-			
			modules in series combination.	-	will be shown ppt & Explain	1	Yes	-	-	-	-	-	-			

Signature of the Lecturer

Ch. Anitha

Signature of the HOD

K. S. S. S.

Signature of the Principal

*[Handwritten Signature]*



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

solar thermal & photo voltaic aspect

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :	Semester :			Paper :				
CH. ANITHA					C1	VI sem							
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	
			modules in parallel combination.	multi junction cells.	will be demonstrated in lab	1	Yes	-		Group discussion	1	Yes	-
July	2nd	2	I - mid Exams	-	-	-	-	-	-	-	-	-	-
July	3rd	4	solar module protection, → solar pv system & its components	-	will be shown you tube video	1	Yes	-		Quiz	1	Yes.	-
			→ prava ray.	-	-	-	-	-		-	-	-	-
July	4th		<u>Final Exams</u>										

Signature of the Lecturer  
Ch. Anitha

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


Signature of the Principal  
[Signature]

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

ANNUAL CURRICULAR					PLAN III (Year)								
NAMR OF THE LECTURER <b>B-DURGA PRASANNA</b>					CLASS : <b>PHYSICS cluster</b> Semester : <b>VI</b>				Paper : <b>(C<sub>2</sub>) Wind, Hydro, Ocean Energies</b>				
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 <sup>rd</sup>	4	Renewable Energy Introduction, types wind energy basis Explanation.	Renewable Energy Sources	-	-	-	-	-	-	-	-	-
			wind generation meteorology of wind world distribution of wind	-	-	-	-	-	-	-	-	-	-
April	4 <sup>th</sup>	4	wind speed statistics, wind speed variation with height wind energy conversion	-	will be show ppt	1	yes	-	-	-	-	-	-
			Principle, general Introduction, Types & classification of WECs, Power, Torque & speed characteristics	-	-	-	-	-	-	-	-	-	-
May	1 <sup>st</sup>	4	Axial momentum theory, Blade element theory,	-	will be show youtube video	1	yes	-	-	-	-	-	-
			Rotor characteristics, maximum power coefficient, wind pump performance, analysis design concept testing	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
**B. Durga Prasa**

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

Signature of the Principal  


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

ANNUAL CURRICULAR					PLAN III (Year)								
NAMR OF THE LECTURER <u>B. DURGA PRASANNA</u>					CLASS : <u>physics cluster</u> Semester : <u>VI</u>				Paper : <u>(C<sub>2</sub>) wind, Hydro &amp; ocean 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	
May	2 <sup>nd</sup>	1	Principle of wind generation wind energy in India.	-	-	-	-	-	-	-	-	-	-
June	1 <sup>st</sup>	4	Environmental impacts of wind farms, overview of micro, mini, small hydro systems, Hydrology, Elements of pumps and turbine	-	-	-	-	-	-	-	-	-	-
			Selection & design criteria of pumps and turbines site selection	-	-	-	-	-	-	-	-	-	-
June	2 <sup>nd</sup>	4	Speed and voltage regulation. ocean thermal introduction;	-	-	-	-	-	-	-	-	-	-
			technology process working principle electricity generation methods from OTEC	-	-	-	-	-	-	-	-	-	-
June	3 <sup>rd</sup>	4		-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

B. Durga Prasa

Signature of the HOD

R. S. S. S. S.

Signature of the Principal

[Signature]

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU  
CURRICULUM LECTURER WISE 2021- 20 22

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					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	
			Advantages and disadvantages of OTEC	-	will be show youtube video	1	Yes	-					
June	4 <sup>th</sup>	4	applications of OTEC, origin & nature of tidal	-	-	-	-	-					
			Energy - wave Energy Introduction	-	will beshow youtube video	1	Yes	-					
			Basics of wave energy motion	-	-	-	-	-					
July	1 <sup>st</sup>	4	Power in waves	-	will beshow ppt	1	Yes	-					
			wave Energy conversion devices advantages & disadvantages applications	-	-	-	-	-					

Signature of the Lecturer

B. Durga Prasa

Signature of the HOD

K. S. S. S.

Signature of the Principal

*[Handwritten Signature]*

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021- 20 22**

ANNUAL CURRICULAR					PLAN III (Year)								
NAMR OF THE LECTURER <u>B.DURGA PRASANNA</u>					CLASS : <u>Physics cluster</u> Semester : <u>VI</u>				Paper : <u>(C2) Wind, Hydro &amp; Ocean 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	
July	2 <sup>nd</sup>	2	<u>Concepts of types</u> <u>I-mid Exams</u>	-	-	-	-	-	-	-	-	-	
			<u>I-mid Exams</u>	-	-	-	-	-	-	-	-	-	
July	3 <sup>rd</sup>	4	<u>applications of wave energy</u>	-	-	-	-	-	-	<u>Student seminar</u>	<u>1</u>	<u>yes</u>	-
			<u>applications of wave energy devices</u>							<u>Quiz</u>	<u>1</u>	<u>yes</u>	-
July	4 <sup>th</sup>	4	<u>Final Theory Exams</u>	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

B. Durga Prasa

Signature of the HOD

K. S. S. S. S.

Signature of the Principal

[Signature]