

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

119

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ANNUAL CURRICULAR					PLAN I (Year)								
NAME OF THE LECTURER: CH. ANITHA					CLASS: Impcs - 1		Semester: Isem		Paper: mechanics 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	
NOV	1st	2	Unit-1: mechanics of particles, review of Newton's Laws of motion of variable mass system	definitions of rest, motion conservation Laws, Energy	-	-	-	-	-	-	-	-	-
NOV	2nd	5	motion of a Rocket, multistage rocket, concept of impact parameter, scattering cross-section Rutherford scattering Derivation.	-	will be shown models	1	Yes	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
NOV	3rd	5	Mechanics of rigid body: Rigid body rotational kinematics	definition of momentum	will be shown PPTS	1	Yes	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER CH. ANITHA					CLASS : Impcs1		Semester : 2		Paper : Mechanics, 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	
			relat ⁿ ; Eq ⁿ of motion for a rotating body Angular										
			Momentum and moment of inertia tensor, Euler, Eq ⁿ s		Shown you tube videos	1		Yes					
			precession of a spinning top.										
NOV	4 th	5+2	Gyroscope, precession of the Equinox	Briefly Explain rotation, precession, nutation.	will be shown PPT'S	1		Yes					
			motion in a central force field. Central forces, def										
			and Examples, Characteristics of central forces										

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CURRICULUM LECTURER WISE 2022-2023

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :		Semester :		Paper :				
CH. ANITHA					Impuls - 1		I		mechanics, waves & oscillating				
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	
			Conservative nature of central forces Equation of motion	Different types of forces	will be shown you tube videos	1	Yes	-	-	-	-	-	-
			under a central force, Keplers law of planetary motion	-	-	-	-	-	-	-	-	-	-
Dec	1st	5	motion of satellites, Basic idea of Global positioning System (GPS), weightlessness physiological effects of astronauts	Introduction about satellite	will be shown PPTS	1	Yes	-	-	-	-	-	-
			Relativistic mechanics Introduction to relativity, frames of reference	-	will be shown youtube videos	1	Yes	-	-	-	-	-	-
Dec	2nd	5	I MID EXAMS	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER: CH. ANITHA					CLASS: I B. SC				Semester: I				Paper: mechanics, 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	Galilean transformations absolute frames, michelson-morley	Expt of twin paradox.						Seminar	1	Yes				
			Expt, -ve result, postulates of special theory of relativity													
			lorentz transformation time dilation, length contraction.	Doppler effect	will be shown you tube video	1	Yes									
Dec	4 th	4	Variation of mass with velocity, Einstein's mass													
			Energy relation undamped, damped and forced: simple		will be shown models,	1	Yes									
			harmonic oscillators and solution of the differential Equation	definitions of rest & motion												

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CURRICULUM LECTURER WISE 2022-2023

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER CH. ANITHA					CLASS : I B.Sc		Semester : I		Paper : Mechanics, 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	
			Damped harmonic oscillator, forced harmonic oscillator, their diff eqns and soln's.	Types of motion	will be shown model and	1	Yes	-	-	-	-	-	-
Jan	1st	5	Resonance, logarithmic decrement, Relaxation time & quality factor	restoring force definition. f mass	Explained.	-	-	-	-	-	-	-	-
			coupled oscillations	coupled system	will be shown models and Explained	1	Yes	-	-	-	-	-	-
			coupled oscillations Introduction, two coupled oscillators, normal co-ordinates and	single oscillator	-	-	-	-	-	-	-	-	-
Jan	2nd	3	normal modes vibrating strings	-	will be shown you tube videos	1	Yes	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER CH. ANITHA					CLASS : I-BSC		Semester : I		Paper : Mechanics, 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	
			Transverse wave propagation along a stretched string	definiot of crest and trough.	will be shown PPTS	1	Yes	-	-	-	-	-	-
		12/1/23 to 18/1/23	ponga vacation.	-	-	-	-	-	-	-	-	-	-
Jan	3 rd	4	General soln of wave Eq ⁿ & its significance	wave length, amplitude,	will be shown PPTS	1	Yes	-	-	-	-	-	-
			modes of vibration of stretched string	Types of waves,	-	-	-	-	-	-	-	-	-
Jan	4 th	5	clamped at ends overtones & harmonics	-	will be shown you tube videos & Explained	1	Yes	-	-	-	-	-	-
			problems in chapters.	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: CH. ANITHA					CLASS: B.Sc		Semester: 8		Paper: Mechanics, 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	
Feb	1st	5	ultrasounds ultrasounds General	detailed the range of frequencies	will be shown PPTs	1	yes			debate	1	yes	-
			properties of ultrasounds, production of ultrasounds by	Types of ultrasounds	-	-	-	-	-	-	-	-	-
			magnetostriction method -	and ultrasonic speed, who can hear	will be shown models & Explained	1	yes	-	-	-	-	-	-
Feb	2nd	5	piezoelectric method, detection of ultrasounds	-	-	-	-	-	-	Group discussion	1	yes	-
Feb	3rd		II mid - Exams	-	-	-	-	-	-	-	-	-	-
Feb	4th	5	Applications of ultrasounds SONAR problems	-	will be shown youtube Videos	1	yes	-	-	-	-	-	-

Signature of the Lecturer: *Ch. Anitha*

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

Signature of the Principal: *[Signature]*

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER CH. ANITHA					CLASS : 2 B.S.C			Semester : 2		Paper : Mechanics, 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	
mar	1st	4	Derive & Explain problems of all chapters	-	-	-	-	Quiz	1	Yes	-		
				-	-	-	-	-	-	-	-		

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ANNUAL CURRICULAR					PLAN (Year) (S.D)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : I B.Sc		Semester : I		Paper : Electrical appliances				
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	1 st	2	Introduction to electricity voltage, current	PMMC, Voltmeter PMMC Ammeter	-	-	-	-	-	-	-	-	-
	2 nd	2	Resistance, capacitance, ohm's law	uses for DC measurement	Youtube vedios will be shown.	-	-	Yes	-	-	-	-	-
			Series and llet combinations of resistors.	-	-	-	-	-	-	-	-	-	-
	3 rd	2	Electrical Conductors, Semi conductors, Insulators	-	will be shown in PPTs.	-	-	Yes	-	-	-	-	-
			Galvanometer	-	-	-	-	-	-	-	-	-	-
	4 th	2	voltmeter, Ammeter.	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year) (S.D)								
NAME OF THE LECTURER : K. Thansi Rani					CLASS : I B-SC		Semester : I		Paper : Electrical appliances				
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	1 st	2	Multimeter, Transformers	-	Demonstrate by using Practical devices	1	Yes	-	-	-	-	-	✓
	2 nd	2	Mid I examinations	_____									
	3 rd	2	cultural week	-	-	-	-	-	-	-	-	-	-
	4 th	2	Electrical energy, Power, kilowatt hour (Kwh)	-	-	-	-	-	-	-	-	-	-
			Consumption of electrical power.	-	-	-	-	-	-	-	-	-	-
	5 th	2	Unit I - Introduction Direct current,	RMS value of sine wave	will be shown youtube vedios	01	Yes	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Thansi Rani					CLASS : 2 B.Sc		Semester : II		Paper : Electrical Appliances (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	
			Alternating current, Rms and peak values, Power	Average value of sine wave, instantaneous	-	-	-	-	-	-	-	-	-
			factor, single phase connection.	value, Peak value, Peak factor	-	-	-	-	-	-	-	-	-
Jan	Jan	1st (2)	Three phase connections, star and delta connection	wave form frequency amplitude	Will be shown in PPTs	1	Yes	-	-	-	-	-	-
			Basics of house wiring.	-	-	-	-	-	-	-	-	-	-
	2nd	2	Electric shock, First aid for electric shock,	Different types of electrical wiring	Will be shown you tube videos	01	Yes	-	-	-	-	-	-
			Over loading, Earthing and its necessity	systems.	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year) (S.D)								
NAME OF THE LECTURER K. Jhansi Rani					CLASS : I B-SC		Semester : I		Paper : Electrical appliances				
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	2	Pongal Vacation	—	—	—	—	—	—	—	—	—	—
	4 th	2	Short circuiting, Fuses, MCB, ELCB	Batter wiring CTS and TRS wiring	will be shown PPTs	01	Yes	—	—	—	—	—	—
	5 th	2	Insulation, Inverter and UPS.	Types of conductors	—	—	—	—	—	—	—	—	—
Feb	1 st	2	Unit-II, Introduction, Principles of working	steps involved in servicing	Will be shown youtube vedios	01	Yes	—	—	—	—	—	—
			Parts and servicing of electric fan, Electric iron box,	of an electric fan	—	—	—	—	—	—	—	—	—
			water heater, Induction heater	—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : K. Jhansi Rani					CLASS : 2 B.Sc		Semester : 2		Paper : Electrical appliances (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	
Feb	2 nd	2	Microwave oven, Refrigerator	Fault and cause of immersion	Will be shown PPTs.	01	Yes	-	-	-	-	-	-
Feb	3 rd	2	Concept of illumination, electric bulbs, CFL and LED lights	heater.	-	-	-	-	-	-	-	-	-
Feb	3 rd	2	Energy efficiency in electrical appliances, IS codes, IE Codes.	Codes	will be shown youtube videos	1	Yes	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <u>P. SIVA KUMARI</u>					CLASS : <u>II B.Sc</u>		Semester : <u>III</u>		Paper : <u>III Heat & Thermodynamics</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	
OCT	4 th	4	Introduction to thermodynamics, heat energy,	—	—	—	—	—	—	—	—	—	—
			Thermodynamic laws, workdone in Isothermal, adiabatic process.	System, Surroundings, Thermodynamic equilibrium	—	—	—	—	—	—	—	—	—
NOV	1 st	5	Carnot's cycle & Carnot's engine & Carnot's theorem	—	will be shown in PPTS	1	Yes	—	—	—	—	—	—
			Second law of thermodynamics. Entropy physical significance.	—	—	—	—	—	—	—	—	—	—
	2 nd	5	change in entropy in reversible and irreversible process	Heat and work, concept of Temperature	—	—	—	—	—	—	—	—	—

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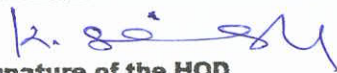
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ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER					CLASS :	Semester :			Paper :				
P. SIVA KUMARI					II B.Sc	III			Heat & Thermodynamics				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	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	
			expansion, Adiabatic expansion, Joule-Kelvin effect porous	—	—	—	—	—	—	—	—	—	—
	5 th	3	plug expansion for cooling liquefaction of air by Linde's method.	Liquefaction of hydrogen	will be shown in PPTS	1	yes	—	—	—	—	—	—
Dec	1 st	3	Adiabatic demagnetisation by product of low temperature	—	will be shown in posters	1	yes	—	—	—	—	—	—
			physics. properties of substance at low temperature	—	—	—	—	—	—	—	—	—	—
	2 nd	5	UNIT-5, Introduction of quantum theory of radiation	Thermal radiation	—	—	—	—	—	—	—	—	—
			Black body and its radiation. Energy distribution	—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER					CLASS :		Semester :		Paper :				
P. SIVA KUMARI					II B.Sc		II		Heat & Thermodynamics				
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	
			physics, thermodynamic potentials & Maxwell's equations	Speed distribution curves with constant	will be shown in PPTS	1	Yes	-	-	-	-	-	-
Jan	1 st	6	UNIT-I, Kinetic theory of gases. Introduction,	Temperature	-	-	-	-	-	-	-	-	-
			Maxwell's Law of distribution of molecular velocities	-	-	-	-	-	-	-	-	-	-
			with an experiment (Tooth well)	-	-	-	-	-	-	-	-	-	-
	2 nd	3	Mean free path and expression transport phenomenon	Average Speed \bar{c} . most probable	will be shown in youtube videos	1	Yes	-	Seminar	1	Yes	-	-
			(Viscosity, thermal conduction, diffusion)	Speed c_p and RMS speed. \bar{c}^2	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER					CLASS		Semester		Paper				
P. SIVA KUMARI					UMPCS-182		III		Life Skill course- Environmental Education (EE)				
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	
Oct	4 th	2	UNIT-I Environment and Natural Resources, Introduction	-	-	-	-	-	-	-	-	-	-
			Multidisciplinary nature of EE, Scope and importance	Aims of Environment	will be shown in PPT'S	1	Yes	-	-	-	-	-	-
Nov	1 st	2	Land, forest, water resources in India and their importance	Forest conservation and management	-	-	-	-	-	-	-	-	-
			Biodiversity - Def. importance of Bio-diversity	Different types of Eco systems	-	-	-	-	-	-	-	-	-
	2 nd	2	Levels of Bio-diversity	Biodiversity in India	will be shown in youtube videos	1	Yes	-	-	-	-	-	-
			Man as integral product and part of the nature.	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: P. SIVA KUMARI					CLASS: II B.Sc (MPCS1&2) Semester: II				Paper: Environmental Education				
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	3 rd	2	UNIT-II Environmental degradation and impacts Introduction	-	-	-	-	-	-	-	-	-	-
			Human population growth and its impacts on environment	Environment and Human Health	Shown in PPT'S	1	Yes	-	-	-	-	-	-
			Land degradation, Land use change, Soil erosion	Disaster Management	-	-	-	-	-	-	-	-	-
	4 th	2	Desertification, use and over-exploitation of surface and ground water, construction of dams floods	women and child welfare	-	-	-	-	-	-	-	-	-
				water conservation	Shown in youtube videos	1	Yes	-	-	-	-	-	-
Dec	1 st	2	Conflicts over water, Deforestation,	population Regulation	-	-	-	-	-	-	-	-	

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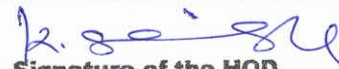
SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

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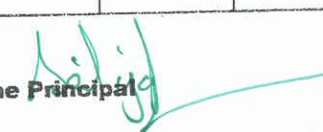
ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :		Semester :		Paper :				
P. SIVA KUMARI					II B.Sc		III		Environmental Education				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			Nonrenewable energy resources, Air pollution	Energy resources	—	—	—	—	—	—	—	—	—
Dec	2 nd	2	water, Soil, noise pollutions. MID-I Exams	Radioactive pollution	—	—	—	—	—	—	—	—	—
	3 rd		Green house effect Global warming Cultural week	—	will be shown in youtube videos	1	Yes	—	—	—	—	—	—
	4 th	2	Acid rains, ocean acidification, ozone layer depletion	—	—	—	—	—	—	—	—	—	—
			threats to biodiversity	—	will be shown in PPTs	1	Yes	—	—	—	—	—	—
	5 th	2	UNIT-3 conservation of Environment Introduction.	—	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN II (Year)									
NAME OF THE LECTURER: P. SIVA KUMARI					CLASS: II B.Sc				Semester: III		Paper: Environmental Education			
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		
			Concept of Sustainability	Judiciary and Sustainable Development	-	-	-	-	-	-	-	-	-	
Jan	1 st	2	Afforestation	-	-	-	-	-	-	-	-	-	-	
			Control measures of air, water, soil, noise pollutions	-	-	-	-	-	-	-	-	-	-	
			Renewable energy sources	-	will be shown in PPTS	1	Yes	-	-	-	-	-	-	
	2 nd	2	Solid waste Management,	watershed Management	-	-	-	-	-	-	-	-	-	
			Conservation of bio-diversity (In situ & Ex situ)	-	will be shown in youtube videos	1	Yes	-	-	-	-	-	-	
	3 rd	2	Environment Laws ① wild life protection act	-	-	-	-	-	-	-	-	-	-	

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CURRICULUM LECTURER WISE 2022 - 2023

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ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER					CLASS		Semester		Paper				
P. SIVA KOMARI					U B.Sc (HPCS)		III		Environmental Education				
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	
			Forest conservation act, Environment protection act	public awareness of acts	—	—	—	—	—	—	—	—	—
	4 th	2	International agreements Montreal & Kyoto protocol	Role of Information technology and protecting	—	—	—	—	—	—	—	—	—
			Environmental movements - Bishnois of Rajasthan.	Environment and human health	will be shown in youtube videos	1	yes	—	—	—	—	—	—
			chipko, Silent Valley movements	—	—	—	—	—	—	—	—	—	—

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P. Sivakumari

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN III (Year)											
NAME OF THE LECTURER					CLASS				Semester				Paper			
B. DURGA PRASANNA					III B.Sc MPCB-2				V				6B			
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	3 rd	4	Unit-I Production of low temperatures-Introduction, Freezing mixtures, Joule-Thomson effect,	-	-	-	-	-	-	-	-	-	-			
			Regenerative cooling	-	-	-	-	-	-	-	-	-	-			
			Different methods of liquefaction of gases, liquefaction of air, production of liquid hydrogen and nitrogen.	-	-	-	-	-	-	-	-	-	-			
NOV	4 th	4	Adiabatic demagnetization.	-	-	-	-	-	-	-	-	-	-			
				-	-	-	-	-	-	-	-	-	-			

B. Durga Prasad
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CURRICULUM LECTURER WISE 20²²-202³

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: B. Durgaprasanna					CLASS: III sem 2		Semester: 2		Paper: (GB) low temperature physics of refrigeration				
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	
			properties of materials at low of temperature - ones, superconductivity	-	-	-	-	-	-	-	-	-	-
Dec	1st	3	Gas thermometer and its correction and calibration, secondary thermometers, resistance thermometers	-	will be show youtube video	1	yes	-	-	-	-	-	-
	2nd	2	Vapour pressure thermometers.	I MID Exams	-	-	-	-	-	-	-	-	-
Dec	3rd	4	Magnetic thermometers. Thermocouple	-	will be show youtube video	1	yes	-	-	-	-	-	-
			Introduction to Refrigeration - Natural & artificial	-	-	-	-	-	-	-	-	-	-

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B. Durgaprasanna

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CURRICULUM LECTURER WISE 2022-2023

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ANNUAL CURRICULAR					PLAN (Year) (BB)								
NAME OF THE LECTURER: B. DURGA PRASANNA					CLASS: TII MPCU-2		Semester: V		Paper: Low temperature physical Refrigeration				
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	
			refrigeration, Types of refrigerants - ion.	-	-	-	-	-	-	-	-	-	-
Dec	4 th	4	Vapor compression and vapor absorption	-	will be show Youtube Video	1	yes	-	-	-	-	-	-
			refrigeration systems Refrigeration cycle	-	-	-	-	-	-	-	-	-	-
			and explanation with a block diagram	-	-	-	-	-	-	-	-	-	-
			properties of refrigerant	Types of Refrigerants	will be show Youtube video	1	yes	-	-	-	-	-	-
			commonly used refrigerants	-	-	-	-	-	-	QUIZ	1	yes	-

B. Durga Prasa
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CURRICULUM LECTURER WISE 2022-23

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>B. Durga prasanna</u>					CLASS: <u>III B.Sc MPC2</u>		Semester: <u>II</u>		Paper: <u>6B</u> Low temperature physics Refrigeration				
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	1 st	4	classification of Refrigerants, Eco-friendly refrigerants	-	will be show ppt	1	yes	-	-	-	-	-	-
Jan	2 nd	3	Refrigerator and its working, block diagram	-	-	-	-	-	-	-	-	-	-
			Coefficient of performance (COP)	-	-	-	-	-	-	-	-	-	-
	14/1/23 to 18/1/23		pongal vacation										
Jan	3 rd	4	Tons of refrigeration (TR) and Energy Efficiency Ratio (EER)	-	-	-	-	-	-	-	-	-	-
			Refrigerator components Types of compressors.	-	will be show YouTube video	1	yes	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN IV (Year)								
NAME OF THE LECTURER: B. DURGA PRASANNA					CLASS: IIMPCY-2		Semester: V		Paper: Low temperature physics & Refrigeration (6B)				
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	9th	4	Types of evaporators and condensers, and their functional aspects, defrosting in a refrigerator, Refrigerant leakage and detection and their functional aspects	-	will be show youtube video	1	yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
Feb	1st	4	Preservation of biological material, Food & freezing, Liquid nitrogen & liquid hydrogen in medical field	-	will be show youtube video	1	yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN: III (Year)								
NAMR OF THE LECTURER: B. Durga prasanna					CLASS: III MPCs-II			Semester: V		Paper: (VIB) <i>Loctemperature physics & Refrigerant</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	
Feb	2 nd	4	Superconducting magnets in MRI Tissue ablation (Cryosurgery)- cryogenic rocket propulsion system	-	will be show youtube video	1	Yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
Feb	3 rd		III MID-Exams	-	-	-	-	-	-	-	-	-	-
		2	cold storages, Ice plants, Food Preservation methods water coolers	-	will be show youtube video	1	Yes	-	-	-	-	-	-
Feb	4 th	4	Domestic Refrigeratory chemical and process industries, cold	-	-	-	-	-	-	-	-	-	-
			treatment of metals Construction field, Desalination of water Data centers-	-	-	-	-	-	-	-	-	-	-

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B. Durga prasanna

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CURRICULUM LECTURER WISE 2022 - 2023

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :			Semester :		Paper :			
Ch. Anitha					III B.Sc mps-1			V		Solar Energy and Applications			
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	3 rd	4	Unit-I: spectral distribution of solar radiation	=	-	-	-	-	-	Seminar	1	Yes	-
			solar constant, Zenith angle and Air mass, standard	structure of Sun	-	-	-	-	-	-	-	-	-
			time, local apparent time, Equation of time	Solar radn Classification	will be shown model & Explained	1	Yes	-	-	-	-	-	-
NOV	5 th	3	Direct, Diffuse and total radiations	-	-	-	-	-	-	debate	1	Yes	-
Dec	1 st	3	pyrheliometer - working principle,	-	will be shown youtube video	1	Yes	-	-	-	-	-	-
			Direct radiation measurement.	-	-	-	-	-	-	-	-	-	-

Ch. Anitha
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CURRICULUM LECTURER WISE 2022-2023

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :	Semester :		Paper :					
Ch. Anitha					III B.sc mpc	V		Solar Energy & Applications					
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	2 nd	2	pysometer - working principle	-	will be shown ppt's	1	Yes	-	-	-	-	-	-
Dec	3 rd	4	Diffuse rad ⁿ measurement, Distinction b/w the two meters	-	-	-	-	-	-	-	-	-	-
Dec	4 th	4	mid-I Exams	-	-	-	-	-	-	-	-	-	-
Dec	5 th	4	Unit-2 : solar thermal collectors Introduction, Types of thermal collectors, flat plate collector	polymer flat plate collectors	will be shown models	1	Yes	-	-	-	-	-	-
				Bowl collectors Solar Vacuum tube collector	-	-	-	-	Group discussion	1	Yes	-	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER					CLASS				Semester				Paper			
ch. Anitha					III B.Sc MPC				V				7B			
					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				
			liquid heating type, Energy	-	-	-	-	-	-	-	-	-				
			balance Eqn & Efficiency, Evacuated tube collector	-	-	-	-	-	-	-	-	-				
Jan	2/1/23		to 7/1/23	CRT classes												
Jan	2 nd	2	collector overall heat loss coefficient	-	will be shown you tube videos	1	yes	-	-	-	-	-				
			Definitions of collector efficiency factor	-	-	-	-	-	Quiz	1	Yes	-				
			11/1/23 to 18/1/23	Pongal vacation												

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>Ch. Anitha</u>					CLASS: <u>III Bsc mpes</u>			Semester: <u>1</u>		Paper: <u>7B</u>			<u>Solar Energy & Applications</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	3 rd	3 hrs	collector heat removal factor collector flow factor, testing of fpc, solar water heating system, natural & forced circulation types.	collector model	will be shown ppt	1	Yes	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	
Jan	4 th	4 hrs	concentrating collectors, solar cookers, solar dryers, solar desalinators.	-	will be demonstrated through models	1	Yes	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	
Jan	5 th	2 hrs	Unit-3: semi conductor interface, Types	-	-	-	-	-	-	-	-	-	-	

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year) Solar Energy & Application								
NAME OF THE LECTURER Ch. Anitha					CLASS : III B.Sc mps				Semester : VI		Paper : TB		
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	
			hetro Junction & schocky barrier Advantages &	module tilt angle and orientation of	-	-	-	-	-	-	-	-	-
			Drawbacks, photo voltaic cell, Equi valent circuit	the pv panel affect System Reference.	-	-	-	-	-	-	-	-	-
Feb	1st	4 hrs	output paramety, conversion efficiency Quantum Efficiency	-	will be shown ppt.	1	Yes	-	-	-	-	-	-
			measurement of I-V characteristics Series & short	-	-	-	-	-	-	-	-	-	-
			resistances their effect on Efficiency, Effect	-	will be shown PPTs	1	Yes	-	-	-	-	-	-
			of light intensity inclination &	-	-	-	-	-	-	-	-	-	-
			temp on efficiency	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <i>Ch Anilla</i>					CLASS: <i>B.Sc mpc</i>			Semester: <i>V</i>		Paper: <i>TB</i>			<i>Solar Energy & applications</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>Feb</i>	<i>2nd</i>	<i>4</i>	<i>Unit-IV: Types of solar cells, crystalline silicon solar cell, I-v characteristics, poly-si cells</i>	<i>Bypass diode and its working.</i>	-	-	-	-	-	-	-	-	-	
			<i>amorphous si cells, thin film cells, CdTe/cds & CuInGaSeTe/cds cells, Configuration, structures & Advantages & limitations, multi junction cells, double & triple</i>	-	-	-	-	-	-	-	-	-	-	
				-	<i>will be shown you tube videos</i>	<i>1</i>	<i>Yes</i>	-	-	-	-	-	-	
				-	<i>will be shown PPTS</i>	<i>1</i>	<i>Yes</i>	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	

Ch Anilla
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CURRICULUM LECTURER WISE 2022-2023

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Ch. Anitha</i>					CLASS: <i>III B.Sc mpcy</i>		Semester: <i>V</i>		Paper: <i>7B</i> <i>solar Energy & Applications</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	
			Junction cells, module fabrication steps, modules in	-	-	-	-	-	-	-	-	-	-
			series & parallel bypass & blocking diodes	Available storage models comprehend	will be shown youtube video	1	Yes	-	-	-	-	-	-
Feb	3 rd	6 hrs	UNIT-V : Energy storage in pV system, Energy storage modes, Electrochemical storage batteries primary & secondary solid state battery molten solvent battery, and dry battery	Air storage pumped storage hydro electricity	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				Redox flow battery, pumped heat electrical storage.	will be shown ppts	1	Yes	-	-	-	-	-	-

Ch. Anitha
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CURRICULUM LECTURER WISE 20²²-202³

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :			Semester :		Paper :			
ch. Anitha					III B.Sc mps			2		TB solar Energy & Applications			
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	4th	4hrs	mechanical storage - fly wheel, electrical storage, Super Capacitor.	-	will be shown you tube videos	1 yes	Yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

Ch. Anitha
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