

ANNUAL CURRICULAR					PLAN I (Year)							
NAMR OF THE LECTURER B-DURGA PRASANNA					CLASS : IMPC-I Semester : I				Mechanics Paper : 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
June	3	5	Introduction of mechanics, and	-	-	-	-	-	-	-	-	-
			Basic definitions, laws of motion,	-	-	-	-	-	-	-	-	-
			motion of variable mass system.	-	-	-	-	-	-	-	-	-
	4	5	eqn of motion of a particle, conservation	-	-	-	-	-	-	-	-	-
			of Energy & momentum collisions in 2 & 3	Collisions definitions	1	Yes	-	-	-	-	-	-
			dimensions, concept of impact parameter	-	-	-	-	-	-	-	-	-
			Scattering cross-section	-	-	-	-	-	-	-	-	-
July	1	5	cross section experiment	-	-	-	-	-	-	-	-	-
			Rutherford scattering derivations & formula	-	1	Yes	-	-	-	-	-	-

Signature of the Lecturer

B-Durga Prasa

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ANNUAL CURRICULAR					PLAN I (Year)								
NAMR OF THE LECTURER <u>B. Durga Prasanna</u>					CLASS : <u>IMPC-I</u> Semester : <u>I</u>				Paper : <u>I</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	
			Def <sup>n</sup> of rigid body rotational kinematics	-	-	-	-	-	-	-	-	-	-
			tic relations	-	-	-	-	-	-	-	-	-	-
	2	4	Eq <sup>n</sup> of motion for rotating body	-	-	-	-	-	-	-	-	-	-
			angular momentum Euler's Eq <sup>s</sup>	-	-	-	-	-	-	-	-	-	-
			and applications precession of a top	-	-	will be show ppt.	1	Yes	-	-	-	-	-
July	3	5	Gyro scope precession of equinox	-	-	will be show Youtube video	1	Yes	-	-	-	-	-
			def <sup>n</sup> of elastic constants rel <sup>n</sup> b/w $\gamma, \mu, k$	-	-	-	-	-	-	-	-	-	-
			classification of beams bendings, loads,	Comparison of Bending in beams	-	-	-	-	-	-	-	-	-
			Shearing force & Bending moment Sign conventions	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
B. Durga prasanna

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NAMR OF THE LECTURER B. Durga prasanna					CLASS : <u>IMPC-I</u> Semester : <u>I</u> Paper : <u>I</u>								
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	4	5	Central force, defn & examples	-	will be show youtube video	1	yes	-	-	-	-	-	-
			characteristics of central force.	-	-	-	-	-	-	-	-	-	-
			Conservative nature of central force,	-	-	-	-	-	-	-	-	-	-
			Conservative force as -ve gradient of potential Energy.	-	-	-	-	-	-	-	-	-	-
			eqn of motion under a central force	-	-	-	-	-	-	-	-	-	-
			Derivation of Keplers laws	-	will be shown youtube vedio	1	yes	-	-	-	-	-	-
			motion of satellite; idea of GPS	Satellite types Explanation	-	-	-	-	-	-	-	-	-
	4	3+1	I mid Exams	-	-	-	-	-	-	-	-	-	-

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<i>Aug</i>	<i>1</i>	<i>5</i>	<i>Introduction to vectors Scalar &amp; vector fields</i>	<i>Scalars &amp; vector definitions</i>	-	-	-	-	-	-	-	-	-
			<i>Gradient of a scalar field &amp; physical significance.</i>	<i>Differences b/w scalar &amp; vector</i>	-	-	-	-	-	-	-	-	-
			<i>Divergence of a vector field.</i>	-	-	-	-	-	-	-	-	-	-
	<i>2</i>	<i>2</i>	<i>Curl of a vector field</i>	-	<i>will be shown youtube video</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-	-
			<i>Physical significance of Divergence</i>	-	-	-	-	-	-	-	-	-	-
	<i>3</i>	<i>5</i>	<i>physical significance of curl.</i>	-	-	-	-	-	-	-	-	-	-
			<i>vector integration, line, surface, volume integrals</i>	-	<i>will be shown ppt</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-	-
			<i>Gauss law.</i>	-	-	-	-	-	-	-	-	-	-

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					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			<i>Stokes theorem</i>	-	-	-	-	-	-	-	-	-	-
			<i>problems</i>	-	-	-	-	-	-	-	-	-	-
	<i>4</i>	<i>5+3</i>	<i>Introduction to Special theory of relativity.</i>	<i>Relativity Examples</i>	<i>will be show youtube video</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-	-
			<i>Galilean relation absolute frames</i>	-	-	-	-	-	-	-	-	-	-
			<i>Michelson morely Experiment.</i>	-	<i>will be shown youtube video</i>	<i>1</i>	<i>yes</i>	-	-	-	-	-	-
<i>Sep</i>	<i>1</i>	<i>5</i>	<i>negative result</i>	-	-	-	-	-	-	-	-	-	-
			<i>Postulates of special theory of relativity.</i>	-	-	-	-	-	-	-	-	-	-
			<i>relativity.</i>	-	-	-	-	-	-	-	-	-	-

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MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
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			<i>Lorentz transformations of space &amp; time.</i>	<i>-</i>	<i>will be shown ppt</i>	<i>1</i>	<i>yes</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>2</i>	<i>4</i>	<i>Imid Enams.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>3</i>	<i>5</i>	<i>time dilation</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>length contraction addition of</i>	<i>-</i>	<i>will be show youtube video</i>	<i>1</i>	<i>yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Velocities</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>mass - Energy relations.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS : <u>II M.PCS-II</u>		Semester : <u>III</u>		Paper : <u>III-PHYSICS</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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June	1 <sup>st</sup>	01	Aberrations - Introduction	Geometrical optics physical optics	will be shown in PPT'S	1	yes	-	-	-	-	-	-
	2 <sup>nd</sup>	05	monochromatic aberration spherical aberration methods of minimizing spherical aberr, coma	-	-	-	-	-	Seminar	1	yes	-	-
	3 <sup>rd</sup>	05	Astigmatism, curvature of field, distortion chromatic aberration	-	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	05	Types of chromatic aberration Achromatic doublet Achromatism for two lenses in contact & for two lenses separated by a distance.	Deviation produced by a thin lens	-	-	-	-	-	-	-	-	-
July	1 <sup>st</sup>	05	Introduction Interference Principle of superposition coherence types	-	-	-	-	-	Seminar	1	yes	-	-
	2 <sup>nd</sup>	4	conditions for interference of light, Fresnel's biprism determination of wave length, change of phase on reflection	spatial coherence and Temporal coherence	will be shown in youtube videos	1	yes	-	-	-	-	-	-

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N. Sridhar



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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>II M.P.CS - II</u>		Semester : <u>III</u>		Paper : <u>III - PHYSICS</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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July	3 <sup>rd</sup>	5 hrs	oblique incidence of a plane wave on a thin film due to reflected light transmitted light colors of thin films,	principle of young's experiment	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	5 hrs	Determination of diameter of wisse Newton's rings in reflecte light richel son interferometer	-	will be shown in Lab	1	yes	-	-	-	-	-	-
			Determination of wavelength of monochromatic light using Newton's rings, Determination of wavelength of M.C light.	Energy distribution	-	-	-	-	-	-	-	-	-
Aug	1 <sup>st</sup>	5 hrs	Distinction b/w Fresnel and Fraunhofer diff, diff due to single slit, double slit, N slits, resolving power of grating	Resultant of n simple harmonic motion	Demonstrate in Lab	1	yes	-	-	Debate	1	yes	-
			Determination of wavelength of light normal incidence & minimum deviation methods using grating, zones		-	-	-	-	-	-	-	-	-
	2 <sup>nd</sup>	2 hrs	Zone plate comparison of zone plate with convex lens diff b/w interference & diff	single slit diffraction by Fourier transform method	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <u>K. SIRISHA</u>					CLASS : <u>II m pcy</u>		Semester : <u>III</u>		Paper : <u>III</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
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Aug	3 <sup>rd</sup>	4 hrs	Polarisation introduction, methods of Polarisation reflection, refraction, double refraction, scattering of light Brewster's law, Malus law, Nicol Prism Polarizer and analyser, Quarter wave plate, Half wave plate.	Longitudinal waves, Transverse waves	-	-	-	-	Quiz	1	Yes	-
				-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	7 hrs	Optical activity, determination of specific rotation by Laurent's half shade polarimeter, Babinet's compensator, idea of elliptical and circular polarization.	Representation of various types of light	will be shown in PPT's	1	Yes	-	-	-	-	-
			Laser Introduction Spontaneous & Stimulated emission.	Biot's Polar scope	-	-	-	-	-	-	-	-
sep	1 <sup>st</sup>	4 hrs	Population inversion laser principle, Gain in coefficients, He-Ne laser, Ruby laser, Applications of lasers, Holography Basic Principle of	Absorption of radiation	will be shown in posters	1	Yes	-	Debate	1	Yes	-
				-	-	-	-	-	-	-	-	-

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NAMR OF THE LECTURER <u>K.SIRISHA</u>					CLASS : <u>Impcs</u>				Semester : <u>II</u>		Paper : <u>III</u>		CO- CURRICULAR ACTIVITY	
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY					
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			holography, Grabat hologram and its limitation, Applications of holography	-	-	-	-	-	-	-	-	-	-	
sep	2 <sup>nd</sup>	4	Mid-II exams	-	-	-	-	-	-	-	-	-	-	
	3 <sup>rd</sup>	4	Fiber optics introduction, Types of fibers, rays and modes in an	Acceptance angle and numerical aperture	-	-	-	-	-	-	-	-	-	
			optical fiber, fiber material, principle of fibre communication advantages of fibre optic communication	aperture	will be shown in youtube videos	1	yes	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: CH. ANITHA					CLASS: <u>II mpc 2</u>		Semester: <u>VA</u>		Paper: <u>VA of Electronics</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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June	1st	1hr	Introduction	-	-	-	-	-	-	-	-	-	-
	2nd	4hrs	Gauss' law statement & its proof; Electric field intensity due to charged sphere sheet, electric potential, Equipotential due to a pt charge	Electric charge, Coulombs law, Electric flux.	will be shown PPT's and Explained.	1	Yes	-	-	Seminar	1	Yes	-
	3rd	4 hrs	Charged spherical shell Dielectrics Electric dipole moment & molecular polarizability	-	-	-	-	-	-	-	-	-	-
	4th	4 hrs	Electric displacement (D) Electric polarization (P) relation between D, E, P Dielectric const & $\epsilon$	Difference b/w dielectrics & conductors	-	-	-	-	-	Debate	1	Yes	-
July	1st	4 hrs	Boundary conditions at the dielectric surface, Electric & magnetic fields, Biot savart law, straight wire circular loop, solenoid.	-	-	-	-	-	-	-	-	-	-
	2nd	3hrs	Hall effect, Determination of Hall coefficient & applications electromagnetic induction Faradays law, Lenz's law	-	will be shown PPT's and Explained	1	Yes	-	-	-	-	-	-

Signature of the Lecturer  
*Ch. Anitha*

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: CH. ANITHA					CLASS: <u>Bmpc2</u>		Semester: <u>V</u>		Paper: <u>VA electronics</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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July	3 <sup>rd</sup>	4 hrs	solenoid mutual induction, coefficient of coupling, calculation of self inductance of a long solenoid. Energy stored in Transformer.	Distinction b/w electric force & magnetic force.	will be shown you tube videos and explained	1	Yes			Quiz	1	Yes	-
	4 <sup>th</sup>	2 hrs	A.C & electromagnetic waves, Alternating Current, Relation b/w in LR & CR ckt		-	-	-	-	-	-	-	-	-
Aug	1 <sup>st</sup>	4 hrs	LCR series & parallel resonant circuit. Q factor, power in AC circuit, Maxwell's eqns: Idea of displacement	Light emitting diode	-	-	-	-	-	-	-	-	-
	2 <sup>nd</sup>	1 hr	Maxwell's Equations (Integral & differential forms)	-	-	-	-	-	-	-	-	-	-
	3 <sup>rd</sup>	4 hrs	Maxwell's wave Eq with derivation, Poynting theorem (statement), production of electromagnetic waves. P-N, Zener, I-V characteristics	-	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	4 hrs + 1 hr	PNP, NPN Transistor, CB, CE, CC configurations, Rel <sup>n</sup> b/w $\alpha$ , $\beta$ , $\beta$ , Transistor CE Characteristics, amplifier	-	will be demonstrated in the lab	1	Yes	-	-	-	-	-	-

  
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ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER					CLASS : <u>III mpc 1</u> <u>III mpc 2</u>		Semester : <u>V sem</u>		Paper : <u>Electrical, magnetism &amp; Electronics</u> <u>VA</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
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Sep	1st	3hrs	Digital electronics Number systems, conversion of binary to decimal system & its complement, Laws of Boolean algebra	conversion of binary to hexa decimal & vice versa	-	-	-	-	Group discuss	1	Yes	-
	2nd	3hrs	Exams		-	-	-	-	-	-	-	-
	3rd	4hrs	Demorgan's laws - statement & proof, Basic logic gates NAND & NOR as universal gates, XOR gate, Half adder, Full adder.		will be demon strated on the lab	1	Yes	-	-	-	-	-
					-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-

*Ch. Anil Kumar*  
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*K. Srinivasulu*  
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NAMR OF THE LECTURER <b>K.SIRISHA</b>					CLASS : <b>III M.PC-I</b>		Semester : <b>V</b>		Paper : <b>VB PHYSICS</b>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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June	1 <sup>st</sup>	1	Introduction given to AMP	-	-	-	-	-	-	-	-	-	-
	2 <sup>nd</sup>	4	Drawbacks of Bohr's atomic model, vectors atom model, Stern & Gerlach expt, quantum no. associated with it.	spectraal terms & notations	will be shown in PPT's	1	Yes	-	seminar	1	Yes	-	-
	3 <sup>rd</sup>	4	L-S & J-J coupling schemes, Zeeman effect, Raman effect, Quantum theory of Raman effect.	-	-	-	-	-	-	-	-	-	-
	4 <sup>th</sup>	4	Experimental arrangement for Raman effect, applications of Raman effect, Introduction to matter waves, De-broglie hypothesis.	Photoelectric effect & Compton effect	-	-	-	-	-	-	-	-	-
July	1 <sup>st</sup>	4	wavelength of matter waves, Properties, Davisson & Germer expt, Heisenberg uncertainty Principle for $\Delta x$ & $\Delta p$ , E & T	-	will be shown in you tube videos	1	Yes	-	-	-	-	-	-
	2 <sup>nd</sup>	3	Basic Postulates of Q.M, Schrodinger's T.I, T-D wave eqn.	-	-	-	-	-	-	-	-	-	-

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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>III M.P.C-I</u> <u>III M.P.C-II</u>		Semester: <u>V</u>		Paper: <u>VR-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	
	3 <sup>rd</sup>	4	Physical interpretation of wave fn, Eigen fn & Eigen values, Application of schrodinger wave eqn, to a particle in 1D infinite box		will be shown in PPT'S	1	yes	-	-	-	-	-	-
	4 <sup>th</sup>	4	Exams conducted		-	-	-	-	Debat	1	yes	-	-
Aug	1 <sup>st</sup>	4	Introduction to Nucleus, size, mass, charge density, binding energy, Mag moment, electric moments, Liquid drop model		-	-	-	-	-	-	-	-	-
	2 <sup>nd</sup>	1	Shell Model & magic numbers.		-	-	-	-	-	-	-	-	-
	3 <sup>rd</sup>	4	Alpha decay, basic of $\alpha$ -decay, theory of $\alpha$ decay, Gamow's Theory, Geiger Nuttal law, $\beta$ -decay, energy kinematics of $\beta$ decay, Positron emission.	explained $\alpha$ , particles	will be shown in youtube videos	-	-	-	Quiz	1	yes	-	-
	4	5	electron capture & neutrino hypothesis, introduction to crystal structure Amorphous & crystalline materials	Brief demo on electromagnetic radiat	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

Signature of the HOD

K. Sirisha

Signature of the Principal

[Signature]



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ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <u>K-SIRISHA</u>					CLASS : <u>III m pce</u> <u>m pce</u>		Semester : <u>V</u>		Paper : <u>VB</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
sep	1 <sup>st</sup>	3	Diffraction of x-rays by crystals, experimental techniques, Laue's method	-	-	-	-	-	seminar	1	yes	-
	2 <sup>nd</sup>	3	exams	-	-	-	-	-	-	-	-	-
	3 <sup>rd</sup>	4	Introduction to superconductivity, experimental facts, critical temperature, critical field, meissner effect, isotope effect, type-I & type-II	superconductivity defini- tion exampl	will be shown in PPTs	1	yes	-	-	-	-	-
	4 <sup>th</sup>	✓	superconductors & applications practical exams	ies of superconductivity	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-
		✓	✓	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sirisha

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