TEACHING PLAN

Teaching Plan of Semester I (2018-19)					
	Discipline Specific Co	urse (DSC-1A)		
Syll	labus DSC1AT: Mechanics	TEACHER	Allotted Time	Class per week	
Unit-I	Vectors		July To	3	
Omt-1	Ordinary Differential Equations			3	
Unit-II	Laws of Motion	Pabitra Adhikary			
	Momentum and Energy			4	
	Rotational Motion				
Unit-III	Gravitation		November	2	
Unit-IV	Oscillations			2	
Unit-V	Elasticity			3	
Unit-VI	Special Theory of Relativity			2	
Syllabus DSC1AP: Mechanics (Lab)					
Unit-I	Measurement of Length (or	Pabitra Adhikary	July		
	Diameter) Using Vernier Caliper,		Pahitra I	To	2
	Screw Gauge and Travelling		November		
	Microscope		November		

TEACHING PLAN

Teaching Plan of Semester I (2018-19)						
	Generic Elective(GE) [Interdisciplinary for other Department]					
Syllabus GE1T: ELEMENTS OF MODERN PHYSICS		TEACHER	Allotted Time	Class per week		
Unit-	Planck's Quantum	Pabitra Adhikary		4		
I	Problems with Rutherford Model					
Unit- II	Position Measurement			2		
Unit- III	Two Slit Interference Experiment		July	3		
Unit- IV	One Dimensional Infinitely Rigid Box		To December	3		
Unit-	Size and Structure of Atomic Nucleus and Its Relation with Atomic Weight				3	
Unit-	Radioactivity			4		
VI	Fission and Fusion					
Syllabus GE1P: ELEMENTS OF MODERN PHYSICS (Lab)						
Unit-	To Determine Value of Boltzmann Constant Using V-I Characteristic of PN Diode.	Pabitra Adhikary	July To December	2		
Unit- II	To Determine Value of Planck's Constant Using LEDs of atleast 4 Different Colours.			2		

TEACHING PLAN

Teaching Plan of Semester II (2018-19)					
Discipline Specific Course (DSC-1B)					
Sylla	bus DSC1BT: Electricity and Magnetism	TEACHER	Allotted Time	Class per week	
Unit-I	Vector Analysis			2	
Unit-II	Electrostatics			3	
Unit-III	Magnetism	Pabitra	November	3	
Unit-IV	Electromagnetic Induction		1 70	2	
Unit-V	Maxwell's Equation and Electromagnetic Wav Propagation	- Adhikary		3	
Syllabus DSC1BP: Electricity and Magnetism (Lab)					
Unit-I	To Study a Parallel LCR Circuit and Determine Its (a) Anti-Resonant Frequency and (b) Quality Factor Q	Pabitra Adhikary	November To January	2	

TEACHING PLAN

	Teaching Plan of Sen	nester II (2018	3-19)			
	Generic Elec [Interdisciplinary for	` ′	ent]			
Syllabus	s GE2T: Thermal physics and statistical mechanics	TEACHER	Allotted Time	Class per week		
Unit-I	Laws of Thermodynamics	Pabitra	November	4		
Unit-II	Thermodynamical Potentials	Adhikary	То	3		
Unit-III	Kinetic Theory of Gases		January	2		
Unit-IV	Theory of Radiation	-	-	2		
Unit-V	Statistical Mechanics			3		
Syllabus GE2P:Thermal Physics and Statistical (Lab)						
Unit-I	Measurement of Planck's			2		
	Constant using Black Body	Pabitra	November			
	Radiation	Adhikary	То			
Unit-II	To Determine the Coefficient		January	2		
	of Thermal Conductivity of a					
	Bad Conductor by Lee and					
	Charlton's disc Method					

TEACHING PLAN

Teaching Plan of Semester III (2018-19)						
Generic Elective(GE) [Interdisciplinary for other Department]						
Sylla	Syllabus GE3T: Solid State Physics TEACHER Allotted Time Class per week					
Unit-l	Crystal Structure	Pabitra Adhikary			3	
Unit-I	I Elementary Lattice Dynamics		July	3		
Unit-Il	I Magnetic Properties of Matter			4		
Unit-I	Dielectric Properties of Materials		To December	4		
Unit-V	Elementary Band Theory				3	
Unit-V	I Superconductivity			3		
Syllabus GE3P: Solid State Physics (Lab)						
Unit-I	Measurement of Susceptibility of Paramagnetic Solution (Quinck's Tube Method)	Pabitra Adhikary	July To December	2		

TEACHING PLAN

	Teaching Plan of Sen	nester IV (2018	8-19)		
	Generic Elec [Interdisciplinary for	` ′	ent]		
•	labus GE4T: Digital, Analog rcuits and Instrumentation	TEACHER	Allotted Time	Class per week	
Unit-I	Digital Circuits	Pabitra Adhikary	December To February	4	
Unit-I	Semiconductor Devices and Amplifiers			4	
Unit-II	I Operational Amplifiers (Black Box approach)			3	
Unit-IV	V Instrumentation			3	
Syllabus GE4P: Digital, Analog Circuits and Instrumentation (Lab)					
Unit-I	To Study IV characteristics of PN diode, Zener and Light Emitting Diode	Pabitra Adhikary	December To February	2	