

SIDDHINATH MAHAVIDYALAYA

TEACHING PLAN

DEPARTMENT OF PHYSICS

Teaching Plan of Semester I (2020-21)				
Discipline Specific Course (DSC-1A)				
Syllabus DSC1AT: Mechanics		TEACHER	Allotted Time	Class per week
Unit-I	Vectors	Pabitra Adhikary	December To March	3
	Ordinary Differential Equations			
Unit-II	Laws of Motion			4
	Momentum and Energy			
	Rotational Motion			
Unit-III	Gravitation			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 Diameter) Using Vernier Caliper, Screw Gauge and Travelling Microscope	Pabitra Adhikary	December To March	2

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Teaching Plan of Semester II (2020-21)				
Discipline Specific Course (DSC-1B)				
Syllabus DSC1BT: Electricity and Magnetism		TEACHER	Allotted Time	Class per week
Unit-I	Vector Analysis	Pabitra Adhikary	April To August	2
Unit-II	Electrostatics			3
Unit-III	Magnetism			3
Unit-IV	Electromagnetic Induction			2
Unit-V	Maxwell's Equation and Electromagnetic Wave Propagation			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	April To August	2

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Teaching Plan of Semester III (2020-21)				
Generic Elective(GE) [Interdisciplinary for other Department]				
Syllabus GE3T: Solid State Physics		TEACHER	Allotted Time	Class per week
Unit-I	Crystal Structure	Pabitra Adhikary	September To March	3
Unit-II	Elementary Lattice Dynamics			3
Unit-III	Magnetic Properties of Matter			4
Unit-IV	Dielectric Properties of Materials			4
Unit-V	Elementary Band Theory			3
Unit-VI	Superconductivity			3
Syllabus GE3P: Solid State Physics (Lab)				
Unit-I	Measurement of Susceptibility of Paramagnetic Solution (Quinck's Tube Method)	Pabitra Adhikary	September To March	2

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Teaching Plan of Semester VI (2020)				
Discipline Specific Elective (DSE)				
Syllabus DSE2T: Solid State Physics		TEACHER	Allotted Time	Class per week
Unit-I	Crystal Structure	Pabitra Adhikary	June To November	3
Unit-II	Elementary Lattice Dynamics			3
Unit-III	Magnetic Properties of Matter			4
Unit-IV	Dielectric Properties of Materials			4
Unit-V	Elementary Band Theory			3
Unit-VI	Superconductivity			3
Syllabus DSE2P: Solid State Physics (Lab)				
Unit-I	Measurement of Susceptibility of Paramagnetic Solution (Quinck's Tube Method)	Pabitra Adhikary	June To November	2