

POLBA MAHAVIDYALAYA
Department Lesson Plan 2018-2019

Name of the department :Department of Physics

Name of the programme :B.Sc(General)

Name of the Course (Subject) :Physics

Period of the Lesson Plan : JULY 2018 TO JUNE 2019

ODD SEMESTER

Academic Period	Class	Paper	Topic to be covered	No. of lectures	Name of the Teacher	Date of Internal Assessment
July 18 to Feb.'19	SEM-I	GCC-1A/ GE1	Conservation of momentum,work and energy conservation,motion of rockets, Rotationalmotion, Newton's law ofGravitation, Kepler's laws,Satellite in circular orbit andapplications. Geosynchronous orbits, Weightlessness	19	Sibaji Das	3rd week of Dec.2018
			Oscillation, Elasticity, Special theory of relativity	21	Sibaji Das	
			Vectors, Ordinary Differential Equations, Laws of Motion	20	Sibaji Das	
	SEM-III	GCC-1C/ GE3	Kinetic theory of Gases,derivation of Maxwell's velocity distribution law,mean free path,Thermodynamic potentials,Clausius-Clapeyron equation	20	Sibaji Das	2 nd week of Dec. 2018
			Theory of radiation, Planck's law,Rayleigh-Jeans law, Statistical mechanics	18	Sibaji Das	
			Laws of thermodynamics,Carnot's cycle, various thermodynamical processes	22	Sibaji Das	
		SEC1	Geothermal energy, Wind energy harvesting, Ocean energy	10	Sibaji Das	
			Fossil fuels and Alternate Sources of energy, Solar energy	9	Sibaji Das	
			Hydro energy, Piezoelectric energy harvesting,Electromagnetic Energy		Sibaji Das	

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EVEN SEMESTER

Academic Period	Class	Paper	Topic to be covered	No. of lectures	Name of the Teacher	Date of Internal Assessment
Mar'19 to July'19	SEM-II	GCC-1B/ GE2	Magnetism: Biot-Savart's law and application, Magnetic properties of materials, Electromagnetic induction	16	Sibaji Das	3 rd week of May, 2019
			Electrostatics: Gauss's theorem, application, electric potential, Capacitance of different conductor, Gauss's theorem in dielectrics	22	Sibaji Das	
			Maxwell's equation, EM wave propagation, Vector analysis: review of vector algebra, divergence, curl and their significances	22	Sibaji Das	
	SEM-IV	GCC-1D/ GE4	Superposition of collinear harmonic oscillations, superposition of 2 perpendicular harmonic oscillations, wave motion general, sound	22	Sibaji Das	2 nd week of May, 2019
			Diffraction, Fluids	19	Sibaji Das	
			Wave optics, Interference by division of wave front, Michelson's interferometer, Polarization	19	Sibaji Das	
		SEC 2	Understand the basic idea about atmosphere and weather..	10	Sibaji Das	
			Determine how to produce wind also measuring its speed and direction and also understand about the humidity clouds and rainfall.	16	Sibaji Das	
			Describe the global wind system, thunderstorm and tropical cyclones also define the climate, its change due to global warming and pollution.	14	Sibaji Das	

POLBA MAHAVIDYALAYA
Implementation of Department Lesson Plan 2018-2019

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ODD SEMESTER

Academic Period	Class	Paper	Topic covered	Topic Not covered	Reason for Not covered	Date of Internal Assessment	Remarks
Aug'18 to Feb.'19	SEM-I	GCC-1A/ GE1	Conservation of momentum,work and energy conservation,motion of rockets, Rotationalmotion, Newton's law of Gravitation, Kepler's laws,Satellite in circular orbit andapplications. Geosynchronous orbits, Weightlessness	All completed		05.12.2018	
			Oscillation, Elasticity, Special theory of relativity	All completed			
			Vectors, Ordinary Differential Equations, Laws of Motion	All completed			
	SEM-III	GCC-1C/ GE3	Kinetic theory of Gases,derivation of Maxwell's velocity distribution law,mean free path,Thermodynamic potentials,Clausius-Clapeyron equation	All completed		05.12.2018	
			Theory of radiation, Planck's law,Rayleigh-Jeans law, Statistical mechanics	All completed			
			Laws of thermodynamics,Carnot's cycle, various thermodynamical processes	All completed			
		SEC1		Geothermal energy, Wind energy harvesting, Ocean energy	No student		
				Hydro energy, Piezoelectric energy harvesting,Electromagnetic Energy			
				Fossil fuels and Alternate Sources of energy, Solar energy			

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EVEN SEMESTER

Academic Period	Class	Paper	Topic covered	Topic Not covered	Reason for Not covered	Date of Internal Assessment	Remarks	
Mar'19 to July'19	SEM-II	GCC-1B/GE2	Magnetism: Biot-Savart's law and application, Magnetic properties of materials, Electromagnetic induction	All completed		14.05.2019		
			Electrostatics: Gauss's theorem, application, electric potential, Capacitance of different conductor, Gauss's theorem in dielectrics	All completed				
			Maxwell's equation, EM wave propagation, Vector analysis: review of vector algebra, divergence, curl and their significances	All completed				
	SEM-IV	GCC-1D/GE4	Superposition of collinear harmonic oscillations, superposition of 2 perpendicular harmonic oscillations, wave motion general, sound	All completed		08.05.2019		
			Diffraction, Fluids	All completed				
			Wave optics, Interference by division of wave front, Michelson's interferometer, Polarization	All completed				
		SEC-4		Generators and transformers, electrical motors	No student			
				Solid state devices, electrical protection, electrical wiring	No student			
				Basic electricity principle, understanding electrical circuits, electrical drawing and symbols	No student			

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Academic Period	Class	Paper	Topic to be covered	No. of lectures	Name of the Teacher	Date of Test Evaluation
JULY'18 TO JUNE'19	Part III	PAPER-IVA (Theory Portion)	1. LASESR	4	Sibaji Das	11.03.2019
			2 MAXWELL EQUATIONS:	10	Sibaji Das	
			3. FIELD EFFECT TRANSISTOR	7	Sibaji Das	
			4. OSCILLATORS	5	Sibaji Das	
			5. BONDING IN SOLIDS	5	Sibaji Das	
			6. DIELECTRICS	5	Sibaji Das	
			7 GENERATORS & MOTORS	4	Sibaji Das	
			8. Building Acoustics	5	Sibaji Das	
			9. DIGITAL ELECTRONICS	5	Sibaji Das	
			10. TRANSISTOR BIASING :	8	Sibaji Das	
			11.Principles of Communications:	12	Sibaji Das	
			12. COMPUTER FUNDAMENTAL :	5	Sibaji Das	

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Academic Period	Class	Paper	Topic covered	Topic not covered	Reason for Not covered	Date of Internal Assessment	Remarks
JULY'18 TO JUNE'19	Part III	PAPER- IVA (Theory Portion)		1. LASESR	No Student		
				2 MAXWELL EQUATIONS:	No Student		
				3. FIELD EFFECT TRANSISTOR	No Student		
				4. OSCILLATORS	No Student		
				5. BONDING IN SOLIDS	No Student		
				6. DIELECTRICS	No Student		
				7 GENERATORS & MOTORS	No Student		
				8. Building Acoustics	No Student		
				9. DIGITAL ELECTRONICS	No Student		
				10. TRANSISTOR BIASING :	No Student		
				11.Principles of Communications:	No Student		
				12. COMPUTER FUNDAMENTAL :	No Student		