



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE

NAAC accredited with 'B' Grade



Course Distribution
Department of Physics
2019-20

Course distribution of odd semester, 2019-20

Department: Physics

Faculty Name	Semester		Paper Code	Unit wise division
Bilip Bordoloi	I	H	C2: Mechanics C2-Lab	Fundamental of dynamics, Work and energy, Collision, Rotational dynamics, Elasticity.
		GE	GE1: Mechanics	Elasticity, Special theory of Relativity.
	III	M	PHYM 30100 : Optics	Unit II: Interference
		GE	PHYG 30100 : Electricity, Magnetism and Electromagnetic theory	Unit II : Magnetism
	V	M	PHYM 50300 Atomic and Molecular Physics	Unit I: Quantum Theory of Atom Unit II: Fine Structure of Atom Unit III: Molecular Spectra and Lasers
		GE	PHYG 50100: Atomic and Nuclear Physics	Unit II: Atomic Physics
Atul Borchetia	I	H	C1: Mathematical Physics-1 C2-Lab	Calculus
		GE	GE1: Mechanics	Momentum and energy, Rotational motion.
	III	M	PHYM 30100 : Optics	Unit-II : Geometrical optics Unit III: Diffraction
		GE	PHYG 30100 : Electricity, Magnetism and Electromagnetic theory	Unit I : Electricity
	V	M	PHYM 50100: Mathematical Physics	Unit I: Differential equation and Special function Unit II: Complex variables
		GE	PHYG 50100: Atomic and Nuclear Physics	Unit III: Accelerator
Diganta konwar	I	H	C2: Mechanics	Fluid motion, Gravitation and Central force motion, Oscillation, Non-Inertial systems.
		GE	GE1: Mechanics	Gravitation, Oscillation
	III	M	PHYM 30200 : Electricity and Magnetisim	Unit-II : Current Electricity Unit IV: Electromagnetic Induction
		GE	PHYG 30100 : Electricity, Magnetism and Electromagnetic theory	Unit IV : Waves
	V	M	PHYM 50400 : Electronics	Unit I: Semiconductor Unit II: Transistor and Amplifier Unit III: Oscillation and Integrated circuit
		GE	PHYG 50100: Atomic and Nuclear Physics	Unit III : Nuclear Physics

Guna Kanta Sonowal	I	H	C1: Mathematical Physics-1 C1-Lab.	Vector Calculus, Vector differentiation, Vector integration.
		GE	GE1: Mechanics	Vector, Ordinary differential Equation.
	III	M	PHYM 30100 : Optics PHYM 30200: Electricity and Magnetism	Unit-I: Polarization and Dispersion Unit III: Magnetism
		GE	PHYG 30100 : Electricity, Magnetism and Electromagnetic theory	Unit III : Electromagnetic theory
	V	M	PHYM 50200: Electrodynamics and Special Relativity	Unit I: Electromagnetic fields Unit II: Propagation of electromagnetic waves
		GE	PHYG 50100: Atomic and Nuclear Physics	Unit I : Cathode rays, X-ray, Photoelectric effect.
Sidhartha Sankar Dutta	I	H	C1: Mathematical Physics-1	Orthogonal Curvilinear Coordinates, Introduction to probability, Dirac Delta function and its properties.
			C2: Mechanics	Special theory of relativity.
	GE	GE1: Mechanics	Law of motion.	
	III	M	PHYM 30200 : Electricity and Magnetism	Unit-I : Electrostatics
		GE		
	V	M	PHYM 50100: Mathematical Physics PHYM 50200: Electrodynamics and Special Relativity PHYM 50400 : Electronics	Unit III: Fourier series Unit III: Special Theory of Relativity Unit IV: Digital electronics
GE		-	-	

H.O.D. Physics

Course distribution even Semester 2019- 2020:

Faculty Name	Semester		Paper Code	Unit wise division
Bilip Bordoloi	I	H	C3: Electricity and Magnetism C4: Waves and Optics C4-Lab	Electric circuits, Network Theorems, Ballistic Galvanometer. Fresnel diffraction, Holography.
		GE	DSC-2A: Electricity and Magnetism	Electromagnetic induction, Maxwell's equation and electromagnetic wave propagation.
	IV	M	PHYM 40100: Mathematical Physics I	Unit III: Matrices
		GE	PHYG 40100 : Quantum mechanics & Mathematical Physics	Unit II: Schrodinger equation
	VI	M	PHYM 60300 : Nuclear Physics PHYM 60430: Laser and its Application	Unit I : Properties of Atomic Nuclei Unit II : Nuclear Model Unit I : Introduction to Laser Unit II: Laser system
		GE	PHYG 60100: Electronics and Solid State Physics	Unit IV: Free electron theory of metals.
Atul Borchetia	I	H	C3: Electricity and Magnetism C3-Lab	Magnetic Field, Magnetic properties of Matter, Electromagnetic Induction
		GE	DSC-2A: Electricity and Magnetism DSC-2A-Lab	Electrostatics
	IV	M	PHYM 40100: Mathematical Physics I	Unit I : Vector calculus
		GE	PHYG 40100 : Quantum mechanics & Mathematical Physics	Unit III: Vector calculus
	VI	M	PHYM 60200 : Condensed Matter physics PHYM 60430: Laser and its Application	Unit I: Crystal structure Unit II: Properties of solid Unit III: Properties of Laser radiation
		GE	PHYG 60100: Electronics and Solid State Physics	Unit III: Crystal structure
Diganta konwar	I	H	C4: Waves and Optics C4-lab	Superposition of Collinear Harmonic Oscillations, Superposition of two perpendicular harmonic oscillations, Wave motion, Velocity of waves, Superposition of two harmonic waves.
		GE	DSC-2A: Electricity and Magnetism	Electrostatics in Dielectric medium.
	IV	M	PHYM 40200 : Quantum Mechanics	Unit II : Wave equation Unit III : Operator Formula
		GE	PHYG 40100 : Quantum mechanics & Mathematical Physics	Unit I: Introduction of quantum Mechanics

	VI	M	PHYM 60200 : Condensed Matter physics PHYM 60300 : Nuclear Physics PHYM 60430: Laser and its Application	Unit III: Semiconductor materials and Superconductivity Unit III: Nuclear reaction and cosmic rays Unit IV: Elementary particles Unit IV: Laser application
		GE	PHYG 60100: Electronics and Solid State Physics	Unit: Semiconductor
Guna Kanta Sonowal	I	H	C3: Electricity and Magnetism C4-Lab	Electric Field and Electric Potential, Dielectric properties of Matter
		GE	DSC-2A: Electricity and Magnetism	Vector analysis.
	IV	M	PHYM 40200 : Quantum Mechanics	Unit I : Introduction Unit II : Application of Schrodinger equation
		GE	PHYG 40100 : Quantum mechanics & Mathematical Physics	Unit IV: Differential equation
	VI	M	PHYM 60100: Statistical Mechanics PHYM 60430: Laser and its Application	Unit I: Classical statistical physics Unit II: Entropy and partition function Unit V: Magneto- Optics and Electro Optics
		GE	PHYG 60100: Electronics and Solid State Physics	Unit II: Transistor
Sidhartha Sankar Dutta	I	H	C4: Waves and Optics C3-Lab	Wave optics, Interference, Interferometer, Diffraction, Fraunhofer diffraction
		GE	DSC-2A: Electricity and Magnetism DSC-2A-Lab	Magnetism
	IV	M	PHYM 40100: Mathematical Physics I	Unit II : Tensor Unit IV : Calculus of variation
		GE		
	VI	M	PHYM 60100: Statistical Mechanics	Unit III: Quantum statistical physics Unit IV: Application of quantum statistical mechanics
	GE	-	-	

H.O.D. Physics

