

STUDENT ASSIGNMENTS ABSTRACT
2021-2022; SEMESTERS I, III, V & VI, II, IV

S. No.	Academic Year	Sem	Paper	Name of the Faculty Conducted	Group/class	Topic
1	2021-22	I	I	Sk. Sattar	IMPC	Rocket Motion
						Rutherford Scattering
2						Equation of motion under central force
						Keplers Laws
3						Michelson-Morley Experiment
						Lorentz Transformations
4						Damped Harmonic Oscillator
						Forced Harmonic Oscillator
5						Magnetostriction Method
						Piezo Electric Method
6		I	I	D. Sampurna rao	IMPCS	Rocket Motion
						Rutherford Scattering
7						Equation of motion under central force
						Keplers Laws
8						Michelson-Morley Experiment
						Lorentz Transformations
9						Damped Harmonic Oscillator
						Forced Harmonic Oscillator
10						Magnetostriction Method
						Piezo Electric Method
11		III	III	Sk. Sattar	II MPC	Maxwells speed Distribution Law
						Thermal conductivity and diffusion of Gases
12						Carnots Engine
						Carnots Theorem
13						Maxwells Relations
						Joule Kelvin Effect
14						Lindes Air Liquefication
						Adiabatic Demagnetisation
15						Plancks Law
						Angstrom Pyroheliometer
16	2021-22	III	III	Sk. Sattar	II MPCS	Maxwells speed Distribution

						Thermal conductivity and diffusion of Gases
17						Carnots Engine
						Carnots Theorem
18						Maxwells Relations
						Joule Kelvin Effect
19						Lindes Air Liquefication
						Adiabatic Demagnetisation
20						Plancks Law
						Angstrom Pyroheliometer
21		V	V	A,Koteswara rao	III MPC	Charged spherical shell
						D, E, & P Relation
22						Biot- Savarts Law
						Maxwell Relations
23						LCR Circuit
						RMS Value
24						PN Junction diode
						Alpha, Beta & Gamma relat
25						Demorgan Ththeorems
		Half & Full adder				
26		V	VI	D. Sampurna rao	III MPC	Sommerfeld Atomic Model
						Vector Atom Model
27						Debrogli Concept of Matter waves
						Germar and Davisson Experiment
28						Schroedinger wave Equations
						Particle in a Potential Box
29						Liquid Drop Model
						Shell Model
30						Braggs X-Ray Diffraction
		Laue X-Ray Diffraction				
31		V	V	A. Koteswara rao	III MPCS	Charged spherical shell
						D, E, & P Relation
32						Biot- Savarts Law
						Maxwell Relations
33						LCR Circuit
						RMS Value
34	PN Junction diode					
	Alpha, Beta & Gamma relat					
35	Demorgan Ththeorems					
	Half & Full adder					

36	2021-22	V	VI	D. Sampurna rao	III MPCS	Sommerfeld Atomic Model
						Vector Atom Model
37						Debrogli Concept of Matter waves
						Germar and Davisson Experiment
38						Schroedinger wave Equations
						Particle in a Potential Box
39						Liquid Drop Model
						Shell Model
40						Braggs X-Ray Diffraction
						Laue X-Ray Diffraction
41	2021-22	VI	VII C	A.Koteswara Rao	III MPC	Different forms of Energy
						Water Polution
42						Global Warming
						Options to generate Electricity
43						Conventional Energy Sources
						Wind Turbines
44						Tidal power generation
						Fixed dome Bio gas plant
46		VI	VII C	A.koteswara Rao	III MPCS	Different forms of Energy
						Water Polution
47						Global Warming
						Options to generate Electricity
48						Conventional Energy Sources
						Wind Turbines
49						Tidal power generation
						Fixed dome Bio gas plant
51		VI	VIII-C1	A.koteswara Rao	III B.SC. PHYSICS CLUSTER	Solar constant
						Pyrheliometer
52						Flat plate Collector
						Evacuated Tubular Collector
53						Solar Cell
						Efficiency of Solar cell
54						I-V Characteristics of Solar Module
						Solar PV System and Its components
55						Solar Hot water System
						Solar Thermal Power Generation

56	2021-22	VI	VIII-C2	Sk.Sattar	III B.SC. PHYSICS CLUSTER	Wind Speed Statistics
57						Wind energy Conversion Principles
58						Aerodynamic theories
59						Rotor Characteristics
60						Performance analysis of wind pumps
61						Wind energy in India
62						Elements of Hydro Pumps & Hydro Turbines
63						Types of WECS
64						OTEC Systems
65						Tidal energy Generation
66		VI	VIII-C3	D. Sampurna Rao	III B.SC. PHYSICS CLUSTER	Need of Energy Storage
67						Hydrogen Energy Storage
68						Lead-Acid Battery
69						Nickel Cadmium Battery
70						Superconducting Magnetic Energy Storage System
71						Supercapacitor
72						Performance of Fuel Cell
73						Efficiency of Fuel cell
74						Phosphoric Acid Fuel Cell
75						Molten Carbonate Fuel Cell
76		II	II	SK.SATTAR	I MPC	Newtons Rings Expt.
77						Michelson Interferometer
78						Single slit Diffraction
79						N-Slit Diffraction
80						Nicol's Prism
81						Laurent's Half Shade Polarimeter
82						Chromatic Aberration
83						Spherical Aberration
84		II	II	D. SAMPURNA RAO	I MPSC	He-Ne Laser
85						Ruby Laser
86						Newtons Rings Expt.
87						Michelson Interferometer
88						Single slit Diffraction
89						N-Slit Diffraction
90						Nicol's Prism
91						Laurent's Half Shade Polarimeter
92						Chromatic Aberration
93						Spherical Aberration
94						He-Ne Laser
95						Ruby Laser

76		IV	IV	A. KOTESWARA RAO	II MPC	Charged spherical shell
77						D, E, & P Relation
78						Biot- Savarts Law
79						Maxwell Relations
80						LCR Circuit
						RMS Value
		IV	IV	SK.SATTAR	II MPCS	PN Junction diode
81						Alpha, Beta & Gamma relations
82						Demorgan Ththeorems
83						Half & Full adder
84						Charged spherical shell
85						D, E, & P Relation
		IV	V	D. SAMPURNA RAO	II MPC	Biot- Savarts Law
86						Maxwell Relations
87						LCR Circuit
88						RMS Value
89						PN Junction diode
90						Alpha, Beta & Gamma relations
		IV	V	A. KOTESWARA RAO	II MPCS	Demorgan Ththeorems
91						Half & Full adder
92						Zeemann Effect
93						Raman Effect
94						Debrogli Concept of Matter waves
95						Germar and Davisson Experiment