Department of Physics

Academic Calendar for session 2020-2021

Name of the Teacher: Santosh Rajwar

Semester- V and VI   Session: 2020-2021

Papers: CC-12, CC-14, DSE-III

Months	Lesson Plan theory and practical		Status
	Thr	Pr	
December	Solid state physics, Crystal Structure	TO measure the magnetic susceptibility of solids.	Completed
January	Elementary Lattice Dynamics, Magnetic properties of matters	Quincke tube methods	Completed
February	Dielectric properties of materials,	To determine the Hall coefficient of a semiconductor sample.	Completed
March	Elementary band theory, superconductivity	To measure the dielectric constant of a materials with frequency	Completed
April	Statistical mechanics, Classical Statistics	To verify the law of Malus for Plane polarized light	
June	Classical theory of radiation,	To analyze the elliptically polarized light using by a Babinat's compensator.	Not completed (Pr)
July	Quantum theory of radiation		Completed
August	Bose- Einstein Statistics	To verify the Stefan's law of radiation and to determine Stefan's constant	Completed
September	Fermi- Dirac Statistics		Completed

Signature of the Teacher   **HOD**

                                                                                      Physics Department

Department of Physics

Academic Calendar for session 2020-2021

Name of the Teacher: Santosh Rajwar

Semester- III and IV   Session: 2019-2022

Papers: CC-7 and CC-9

Months	Lesson Plan theory and practical		Status
	Thr	Pr	
December	Digital systems and applications, Digital circuits	To test a Diode and Transistor using a Multimeter	Completed
January	Boolean algebra, De Morgan's theorems.	To verify design a switch using a transistor.	Completed
February	Data processing circuits, Arithmetic circuits	To verify and design AND, OR, NOT, and XOR gates using NAND gates.	Completed
March	Sequential circuits, Timers	To build SR Flip flop, JK Flip flop, D-Type using NAND gates.	Completed
April	Elements of modern physics		Completed
June	quantum theory of light	Measurement of Plank's constant using black body radiation and photo detector	Completed
July	Matter wave and wave amplitude	To determine the value of e/m by using a Bar magnet	Completed
August	One dimensional infinitely rigid box		Completed
September	Radioactivity		Not Completed
October	Laser		Completed
November	Quantum uncertainty		Completed
December	Fission and fusion		Not Completed

Department of Physics

Academic Calendar for session 2020-2021

Name of the Teacher: Santosh Rajwar

Semester- I and II   Session: 2020-2023

Papers: CC-2 and CC-4

Months	Lesson Plan theory and practical		Status
	Thr	Pr	
December	Mechanics, Fundamental of dynamics	To determine the elastic constant of a wire by Searle's methods	Completed
January	Rotational Dynamics And Elasticity	To determine the value of g using Bar Pendulum	Completed
February	Flexure of bean and Surface Tension	To determine the value of g using Kater's Pendulum	Completed
March	Central force motion		Completed
April	Oscillations		Completed
June	Special theory of relativity		Completed
July			
August			
September			

Signature of the Teacher   **HOD**

                                                                                                           Physics Department