

List of Courses for January – May 2023

Sl. No.	Name of the Course	Credit
1.	Innovative Product Development and Design Methods (Mon) (6 pm to 8 pm) (Online)	2:0
2.	Basic Principle and Application of Electron Microscopy and Cryo-EM (Mon & Wed) (6 pm to 7:30 pm) (Online)	3:0
3.	Metamaterials and Metasurfaces: Fundamental Principles and Applications (Mon & Wed) (6 pm to 7:30 pm) (Online)	3:0
4.	Optimization Foundations for Machine Learning (Tue & Thu) (8:00 pm to 9:30 pm) (Online)	3:0
5.	Introduction to Photonics (Mon & Wed) (6 pm to 7:30 pm) (Offline)	3:0
6.	Probability, Statistics and Matrix Methods for Machine Learning (Mon & Wed) (8:30 pm to 10:00 pm) (Online)	3:0
7.	Statistical Thermodynamics for Engineers (Mon & Wed) (8:00 pm to 9:30 pm) (Online)	3:0
8.	Mathematical Theory of Finite Elements and Implementation. Credits (Thu) (8 pm – 10 pm) (Online)	3:1
9.	Transgenic Technology: Principles and Applications (Sat)	2:0
10.	Business Analytics with Management Science Models and Methods (Tue & Thu) (8 pm to 9.30 pm) (8 pm to 9.30 pm) (Online)	3:0
11.	AI and Machine Learning with Python (Wed) (8 pm to 10:00 pm) (Online)	3:1
12.	Vibration and Noise: Theory & Practice control (Wed) (8.00 pm to 10:00 pm) (Online)	2:0
13.	Reinforcement Learning (Wed) (6 pm to 7:30 pm) (Offline)	2:0
14.	Spectroscopic analysis of protein structures and functions (Wed) (6 pm to 8:00 pm) (Online)	2:0
15.	Analysis and Design of Composite Structures (Thu) (8 pm to 10 pm) (Online)	2:0
16.	Embedded Systems and IoT (Fri) (6 pm to 8 pm) (Online)	2:0
17.	Finite Element Method (Sat) (10 am to 1 pm) (offline)	3:0
18.	Deep Learning for Artificial Intelligence (Sat) (10 am to 1 pm) (Online)	3:1
19.	Deep Generative Models (Sat) (10 am to 1 pm) (Online)	3:0
20.	Fundamentals of Machine Learning (Sat) (10 am to 1 pm) (offline)	3:0
21.	Structural Analysis and Design Optimization: Theory and Practice (Sat) (12pm to 2 pm) (Online)	2:0
22.	Supramolecular chemistry: Design principle and applications; (Sat) (10 am to 1 pm) (Online)	2:0
23.	Topology in Condensed Matter (Sat) (10 am to 1 pm) (Online)	2:0
24.	Advances in Tissue and Organ Culture: Spheroids, Organoids, and On-chip platforms (2+0) (Sat) (10 am to 1 pm) (Online)	2:0
25.	UI/UX Design (Sat) (10 am to 1 pm) (Online)	3:0
26.	Principles and Advances in Genetic Engineering (Sat) (10 am to 1 pm) (Online)	3:0
27.	Introduction to Quantum Computing (Sat) (10 am to 1 pm) (Online)	3:0