Sr. No.	Course Name	Faculty
1	Introduction to Crystal Elasticity and Crystal Plasticity	Dr. Swarup Bag
2	Advanced Machining Processes	Dr. Manas Das
3	Mechanics of Machining	Prof. U.S. Dixit
4	Principle of Hydraulic Machines and System Design	Dr. Pranab Mondal
5	Introduction to Abrasive Machining and Finishing Processes	Dr. Mamilla Ravi Sankar
6	Theory of Rectangular Plates-Part1	Dr. Poonam Kumari
7	Advances in welding and joining technologies	Dr. Swarup Bag
8	Fundamentals of Nuclear Power Generation	Dr. D.N. Basu
9	Introduction to Machining and Machining Fluids	Dr. Mamilla Ravi Sankar
10	Polymer Assisted Abrasive Finishing Processes	Prof. M. Ravi Sankar
11	Fundamental of Welding Science and Technology	Prof. P. Biswas
12	Principles of Mechanical Measurement	Dr. D.N. Basu
13	IC Engines and Gas Turbines	Prof. Pranab K. Mondal, Prof. V.N. Kulkarni
14	Two-Phase flow with phase change in conventional and miniature channels	Prof. M. Pandey
15	Steam Power Engineering	Prof. V.N. Kulkarni
16	Aircraft Propulsion	Prof. V.N. Kulkarni
17	Applied Thermodynamics for Engineers	Dr. D.N. Basu
18	Dynamic Behaviour of Materials	Prof. Prasenjit Khanikar
19	Fundamentals of Artifical Intelligence	Prof. S.M. Hazarika
20	Fundamentals of conduction and radiation	Prof. A. Dalal, Dr. D.N. Basu
21	Mathematical Modeling of Manufacturing Processes	Prof. Swarup Bag
22	Plastic Working of Metallic Materials	Prof. P.S. Robi
23	Computational Fluid Dynamics for Incompressible Flows	Prof. A. Dalal
24	Experimental Methods in Fluid Mechanics	Prof. Pranab K. Mondal
25	Finite Element Method: Variational Methods to Computer Programming	Dr. Atanu Banerjee, Dr. Arup Nandy
26	Computational Continuum Mechanics	Dr. Sachin Singh Gautam
27	Automation in Manufacturing	Dr. S.N. Joshi
28	Fundamentals of Convective Heat Transfer	Prof. A. Dalal
29	Fundamentals of Compressible Flow	Prof. N. Sahoo
30	Finite element modeling of welding processes	Dr. Swarup Bag
31	Viscous Fluid Flow	Prof. A. Dalal
32	Nonlinear Vibration	Prof. S. K. Dwivedy
33	Theory of Composite Shells	Dr. Poonam Kumari
34	Evolutionary Computation for Single and Multi-Objective Optimization	Dr. Deepak Sharma