

EN010 301A	Engineering Mathematics II
EN010 302	Economics and Communication Skills
MT 010 303 (EE)	Electrical and Electronic Engineering
MT 010 304	Physical Metallurgy
MT 010 305	Programming in C
MT 010 306	Mineral Dressing
MT 010 307	Computer Programming Laboratory
MT 010 308 (EE)	Electrical and Electronics Engineering laboratory
EN 010 401	Engineering Mathematics – IV
EN 010 402	Principles of Management
MT 010 403	Mechanical Behavior and Testing
MT 010 404	Phase Transformation and Heat Treatment
MT 010 405	Electrical, Electronic and Magnetic Materials
MT 010 406	Transport Phenomenon
MT 010 407	Heat Treatment of Ferrous Metals Laboratory
MT 010 408	Mechanical Testing Laboratory
EN 010 501A	Engineering Mathematics – V
MT 010 502	Metal Joining Technology
MT 010 503	Iron and Steel Making
MT 010 504	Pyro, Electro and Hydro Metallurgy
MT 010 505	Fuels, Refractories and Furnaces
MT 010 506	Metallurgical Thermodynamics
MT 010 507	Welding Laboratory
MT 010 508	Heat Treatment of Non Ferrous metals Laboratory
EN 010 601	Non Ferrous Physical Metallurgy
MT 010 602	Secondary and Advanced Steel Making
MT 010 603	Foundry Technology
MT 010 604	Metallography and X ray Diffraction
MT 010 605	Non-ferrous Extractive Metallurgy
MT 010 606	Elective – I
MT 010 607	Metallography Laboratory
MT 010 608	Foundry Laboratory
EN 010 701	Corrosion Science and Engineering
MT 010 702	Advanced Materials Characterization
MT 010 703	Ceramic, Polymers and Composites Materials
MT 010 704	Theory of Metal Forming
MT 010 705	Powder Metallurgy
MT 010 706	Elective – II
MT 010 707	Corrosion Engineering Laboratory
MT 010 708	Metal Forming Laboratory
MT 010 709	Seminar
MT 010 710	Project Preliminaries
MT 010 801	Non Destructive Testing and Failure Analysis

MT 010 802	Creep, Fatigue and Fracture Mechanics
MT 010 803	Alloy Design and Applications
MT 010 804	Elective – III
MT 010 805	Elective – IV
MT 010 806	Non Destructive Testing Laboratory
MT 010 807	Project
MT 010 808	Viva Voce

Electives I

MT 010 606 L01	Design and Selection of Materials
MT 010 606 L02	Nuclear Metallurgy
MT 010 606 L03	Surface Engineering
MT 010 606 L04	Vacuum Science and Deposition Techniques
MT 010 606 L05	Analytical Methods in Materials Science
MT 010 606 L06	Mathematical modeling
MT 010 606 L07	Computational physical chemistry

Electives II

MT 010 706 L01	Ladle Metallurgy and continuous Casting of Steels
MT 010 706 L02	Emerging Materials
MT 010 706 L03	High Temperature Materials
MT 010 706 L04	Special Casting Techniques
MT 010 706 L05	Semiconducting Materials and Devices
MT 010 706 L06	Optimization techniques
MT 010 706 L07	Computational materials science

Electives III

MT 010 804 L01	Experimental Techniques in Materials Engineering
MT 010 804 L02	Mechanical working of Metallic Materials
MT 010 804 L03	Materials for jet Engines and Gas Turbines
MT 010 804 L04	Metallurgy of Tool Materials
MT 010 804 L05	Molecular Spectroscopy
MT 010 804 L06	Statistical quality control
MT 010 804 L07	Stochastic models

Electives IV

MT 010 805 G01	Finite Elements Methods
MT 010 805 G02	Nano Technology
MT 010 805 G03	Financial and Management Accounting
MT 010 805 G04	Analytical Methods in Material Science
MT 010 805 G05	Micro Machining and Micro Sensors