Tentative Course List (July - December 2024 Semester)								
1st Year	Transport Phenomena in Materials Engineering	Electrical Engineering	Biostatistics	Theoretical Foundations of ML	Fracture Mechanics	Topology	Sequence Stratigraphy	Critical Journey through Select Thoughts and Theories
Engineering Graphics	Statics & Dynamics	Electrical Systems Laboratory	Human Physiology	Computer Systems	Elastodynamics and Vibrations	Applied Linear Algebra, Probability and Statistics	Geodynamic Modelling Lab	Scarred Nations : Partition in the Indian subcontinent
Computing	3rd Year	Digital Signal Processing	Civil Engineering	Natural Language Processing	Special Topics in Mechanical Engineering - Phase Change Phenomena	Commutative Algebra	Microwave Remote Sensing	Public Policy and its Impact Evaluation
Design, Innovation, and Prototyping	Chemical Engineering	Mechanical Engineering	Advanced Geotechnical Engineering	Special Topics in CSE: Toolkit for Theoretical Computer Science	Materials Engineering	Partial Differential Equations	Cognitive Science	Critical Perspectives in Sociology
Materials for the Future	Undergraduate Science Laboratory	Integrated Design and Manufacturing II	Advanced Structural Analysis	Electrical Engineering	Principles of Metal Extraction and Refining	Functional Analysis	Computation and Cognition	Reading Philosophy: Classical, Contemporary and Global Perspectives
Introduction to Writing I	Chemical Reaction Engineering-II	Materials Engineering	Advanced Engineering Hydrology	5G and Beyond: An Introduction	Structure and Defects of Materials	Algebraic Topology	Fundamentals of Cognitive Psychology	Special Topics in HSS: Understanding and Designing Comics and Graphic Novels
Calculus of Single Variable and Linear Algebra	Separation Processes -I	Computational Process Design	Structural Dynamics	Electric Vehicle Technology	Characterization of Materials	Probability Theory	Research Methods in Cognitive Science	Academic Communication: Argumentation and Reasoning
World Civilizations and Cultures	Process Dynamics and Control	Additional Courses	Advanced Hydraulic Engineering	Restructured Power Systems: Operation and Management	Chemistry	Algebraic Number Theory	Fundamental Neuroscience	Semiotic Anthropology (Special Topics)
2nd Year	Integrated Chemical Engineering Lab-I	Biological Engineering	Slopes and Retaining Structures	VLSI Design	Chemistry Laboratory	Matrix Lie Groups	Perception and Attention	
Biology for Engineers	Civil Engineering	Bionanotechnology – Principles and Applications	Infrasructure Systems: Planning and Management	Lasers	Electrochemical Science and Engineering	Physics	Philosophy of Mind	
General Education II		Methods in Biology	Air Pollution Control Engineering	Physics of Transistors	Food Chemistry	Introduction to Inverse Modelling in Physical Sciences	Neural Plasticity	
Introduction to Quantum Physics	Undergraduate Science Laboratory	Electrical Engineering	Pavement Materials and Design	Dynamic Behaviour of Electric Machines	Physical Organic Chemistry	Mathematical Methods of Physics - I	Special Topics in Cognitive Science: Brain Imaging Methods	
Introduction to Partial Differential Equations	Soil Mechanics	Undergraduate Science Laboratory	Advanced Solid Mechanics	Introduction to Photonics	Organometallic and Bioinorganic Chemistry	Quantum Mechanics I	Special Topics in Cognitive Science: Language and Brain	
Calculus of Several Variables	Design of Steel Structures	Engineering Electromagnetics	Wastewater Engineering (Treatment and	Digital Control Systems	Main Group and Transition Metal Chemistry	Classical Electrodynamics	Design	Ī
Introduction to Complex Analysis	Water Resource Engineering	Analog & Mixed Signal Circuits	Advanced Concrete Technology	Microfabrication and Semiconductor Processes	Quantum Chemistry	Classical Mechanics	Ancient Indian Technologies]
Introduction to Philosophy	Transportation Engineering	Digital Signal Processing	Chemical Engineering	CMOS Analog IC Design	Advanced Organic Chemistry	Condensed Matter Physics	Visual Design for Academia	
Thermodynamics	Computer Science and Engineering	Power Electronics	Introduction to Polymer Science and Engineering	Analog IC Design Lab	Inorganic Chemistry Laboratory	Topics in Classical Mechanics and Electrodynamics	Special Topics in Design: Design for Discretive Needs	
Materials Thermodynamics		Mechanical Engineering	Biochemical Engineering	Digital VLSI Circuits Laboratory	Organic Chemistry Laboratory	Introduction to Einstein's Theory of General Relativity	Management	
Electronic Devices	Undergraduate Science Laboratory	Economics	Formulation Science and Engineering	Smart Renewable Energy Systems	Applied Chemical Biology	Quantum Field Theory I	Financial Considerations in Engineering Decisions]
Earth Materials and Processes	Computer Organization and Architecture	Undergraduate Science Laboratory	Nanoscale Science	Computer Vision	Interpretative Organic Spectroscopy	X-ray Scattering: Concepts and Applications	Humanities and Social Science	
Chemical Process Calculations	Foundations of AI: Multiagent Systems	Control Systems	Advance Transport Phenomena	Special Topics in Electrical Engineering: Economics of Regulation in India	Asymmetric Synthesis and Catalysis	Atomic and Molecular Physics	Economics	
Data Structures and Algorithms I	Undergraduate Science Laboratory	Mechanics of Materials	Advanced Thermodynamics	Mechanical Engineering	Introduction to Molecular Dynamics	Topics in Soft and Active Matter Physics	Urdu Script & Poetry	
Signals, Systems, and Random Processes	Materials Processing	Heat and Mass Transfer	Advanced Reaction Engineering	Mechatronics	Chemical Crystallography	Advanced Statistical Physics	Urdu Poetry Interpretation	
Mechanics of Solids	Polymers, Ceramics and Composites	Manufacturing Systems & Metrology	Engineering Optimization	Special Topics in Mechanical Engineering - Machine Design	Statistical Thermodynamics and its Applications in Chemistry	Earth Science	Perspectives of Indian Civilisation	
Discrete Mathematics	4th Year	Materials Engineering	Flexible Electronics: Materials, Methods and Devices	Foundations of Fluid Dynamics	Mathematics	Earth Surface Processes in the Anthropocene	Literary Experiment in European Modernism	
Geospatial Engineering	Chemical Engineering	Genetic Engineering – Principles and Applications	Computer Science and Engineering	Computational Fluid Dynamics	Basic Algebra	Modeling of Earth System and Sustainability	Ancient Indian Architecture	
Electrical Machines	Process Synthesis and Design	Molecular and Cellular Biotechnology	Computer and Network Security	Compressible Flow	Introduction to Linear Algebra	Biodiversity Conservation and Sustainable Development.	Qualitative Research Methods]
Structure of Materials	Process Dynamics and Control Lab	Biochemistry	Algorithms	Introduction to Robotics	Topics in Real Analysis	Physics of the Lithosphere	Special Topics in HSS: Introduction to the Learning Sciences]