Tentative Course List (January - April 2023 Semester)							
BTech First Year	Power Systems	Industrial Engineering and Operations Research	Advanced Reaction Engineering	Matrix Analysis	Neuroscience of Decision Making	Advanced Transportation Electrification Technology	Special Topics in HSS: Understanding and Designing Comics and Graphic Novels
General Education I	Control Systems	Mechanical Engineering Laboratory II	Molecular Simulations – Theory and Applications	Integral Geometry in Imaging Sciences	Special Topics in Cognitive Science: Neurorehabilitation	Special Topics in Electrical Engineering: Regulation of Electric Sector	Special Topics in HSS: Challenges in the Digital Society
Ordinary Differential Equations	Principles of Manufacturing Processes	Integrated Design and Manufacturing I	Liquid State Theory	Fourier Analysis on LCA Groups	**Computer Science and Engineering**	**Earth Science**	Humanism, Anti-humanism, and Posthumanism
Data-Centric Computing	Data Structures and Algorithms II	**Materials Engineering**	Fundamentals of Aerosol Science	**Physics**	Machine Learning	River Morphology and Ecology	Perspectives in History
Probability, Statistics, and Data Visualization	Structural Analysis	Corrosion and Degradation of Materials	Flexible Electronics: Materials, Methods and Devices	Quantum Mechanics II	Deep Learning	Quantitative Geomorphology	Sociology of Tourism
Design, Innovation, and Prototyping	Physical Education	Materials Processing	Scientific Computing using C++	Methods of Experimental Physics	5G and Beyond: An Introduction	Biodiversity Conservation and Sustainable Development (Science Basket)	Politics of the Enviroment
Principles and Applications of Electrical Engineering	Comprehensive Viva Voce	Material Characterization Techniques	**Chemistry**	Statistical Mechanics	Computer and Network Security	Near Surface Geophysics	Philosophy, Cognition and Psychoanalysis
Undergraduate Science Laboratory	**BTech 3rd Year**	**BTech 4th Year**	Forensic Chemistry	Computational Physics	Databases	Ocean and Global Change	Development Economics
Introduction to writing II	**Chemical Engineering**	**Civil Engineering**	Food Chemistry	Topics in Quantum and Statistical Mechanics	Software Engineering and Testing	Special Topics in Earth Sciences: Atmospheric Physics	Quantitative Research Methods in Social Sciences
BTech Second Year	Separation Processes	Geotechnical Engineering	Organometallic and Bioinorganic Chemistry	Quantum Field Theory II	Human Computer Interaction	**Mechanical Engineering**	Digital Cultures and New Media
Theory of Computation	Mass Transfer and Reaction Engineering Lab	Construction Technology & Management	Reactions and Mechanisms in Organic Chemistry	Physics of Two-dimensional Materials	Combinatorics with Applications in Computer Science	Non-Linear Elasticity	India through the Writer's Eye
World Civilizations and Cultures	Process Control	**Additional Courses**	Analytical and Computational Chemistry Laboratory	Quantum Computing and Information	Advanced Algorithms	Control of Nonlinear Dynamical Systems	Anthropology, Citizenship and Human Rights
Introduction to Electrodynamics	Process Analysis and Simulation	**Civil Engineering**	Physical Chemistry Laboratory	Tools of Experimental Physics	Parallel and Distributed Systems	Aircraft and Rocket Propulsion	Structures and Hydrology in Ancient India
Sustainability and Environment	**Civil Engineering**	Networks and Complex System	Chemistry of Natural Products	Particle Physics and Gauge Theories	**Electrical Engineering**	Convective Heat Transfer	Human Evolution
Fundamentals and Applications of Spectroscopy	Concrete Design	Special Topics in Civil Engineering	Electrochemistry	**Biological Engineering**	Electromagnetic Waves	Nonlinear Dynamics and Vibrations	Literature, Theory and Social Context
Chemical Engineering Thermodynamics	Steel Design	Analysis and Design of Foundation Systems	Metabolism & Biosynthesis	Introduction to Biomedical Engineering	Space Science and Satellite Technology	Nonlinear Continuum Mechanics	Critical Perspectives in Anthropology
Process Fluid Mechanics	Civil Engineering Materials Lab	Remote Sensing of Land and Water Resources	Fluorescence Spectroscopy for Chemists and Biologists	Stem Cells: Science and Applications	Nanoscale device Engineering	Human-Robot Interaction	History, Concepts and Theories of Development Studies
Introduction to Computational Materials Engineering	Masonry Design	Fire Engineering	Medicinal Chemistry for Life	Introduction to Cell Biology	Restructured Power Systems: Operation and Management	Advanced Solid Mechanics	Storytelling for the Digital Era
Heat Transfer	Field Survey project	Finite Element Methods	Catalytic Chemistry	Biophysical Techniques	Artificial Intelligence	Energy Systems	**Design**
Digital Systems	**Computer Science and Engineering**	Applied Hydraulic Transients	Solid State Chemistry and Applications	Cellular signaling	Microelectronics Lab	**Materials Engineering**	Creativity, Design and Doing
Chemical Reaction Engineering - I	Compilers	Geosynthetics	Electronic Structure Theory	Bioinformatics and Computational Biology	Special Electrical Machines	Surface Engineering	Technopreneurship: Product Development + Business Strategy
Calculus of Several Variables	Introduction to Data Science	Advanced Concrete Design	**Mathematics**	Human Physiology	Microfabrication and Semiconductor Processes	Nature-inspired Materials Design	Special Topics in Design: Information Design for eLearning
Mechanical Behavior of Materials	**Electrical Engineering**	Traffic and Roadway Engineering	Complex Analysis	Novel Drug Delivery Technologies: Fundamental Principles and Engineering	Electronic Instrumentation	Thin Film Processing and Characterization	**Management**
Introduction to Complex Analysis	Control Theory	Special Topics in Civil Engineering: Engineering practices in drinking water treatment	Ordinary Differential Equations	Special Topics in Biological Engineering: Analysis and Characterization of Biologicals	CMOS Analog IC Design	Biomaterials for Tissue Regeneration	Business Communication
Physics of Materials	Power Electronics	Special Topics in Civil Engineering: Design for Dynamic Loads	Commutative Algebra	**Cognitive Science**	IC Design Laboratory	Process Plant Design – How to Set Up a Process Industry	Special Topics in Management: Strategic Leadership
Fluid Dynamics	Microprocessors and Embedded Systems	Special Topics in Civil Engineering: Geotechnical Infrastructure Projects	Stochastic Differential Equations	Computation and Cognition	Analog IC Design Lab	**Humanities and Social Sciences**	Principles of Business Management
Vibrations	Communication Systems	**Chemical Engineering**	Algebra II	Introduction to Cognitive Linguistics	Carrier Transport in Advanced Semiconductor Devices	Sanskrit Literature	Medical Products Industry:Quality and Regulations
Microstructural Engineering	**Mechanical Engineering**	Formulation Science and Engineering	Introduction to Differential Geometry	Phenomenology, Embodiment, and Consciousness	Heterostructure Devices	Perspectives in Psychology	Special Topics in Management: Managing Sustainable Businesses
Fluids Mechanics	Control Theory	Advanced Thermodynamics	Introduction to Riemannian Geometry	Learning and Memory	Medical Imaging Systems	Harappan Civilization	Special Topics in Management: Business Risk Management
Mechanics of Solids	Synthesis and Analysis of Mechanisms	Engineering Optimization	Numerical Analysis	Emotion and Cognition	VLSI System Design	Introduction to Linguistics	