

The curriculum includes the following indicative list of specialized discipline courses. Compulsory Discipline Courses (CDC's) are selected from the pool of Specialized Discipline Courses (SDC's) given below by the Institute. Other Courses will form electives in a pool of electives.

Course No.	Course Title
Computer Science (CS)	
CS C321	Computers & Programming
CS C341	Data Structures & Algorithms
CS C342	Advanced Computer Organization
CS C351	Theory of Computation
CS C352	Data Base Systems
CS C362	Programming Languages & Compiler Construction
CS C372	Operating Systems
CS C391	Digital Electronics & Computer Organization
CS C414	Telecommunication Switching Systems & Networks
CS C422	Parallel Computing
CS C441	Selected Topics from Computer Science
CS C444	Real Time Systems
CS C451	Combinatorial Mathematics
CS C453	Discrete Mathematical Structures
CS C461	Computer Networks
CS C471	Computer Graphics
CSC481	Graphical User Interfaces
CS C491	Special Projects
Electrical & Electronics Engineering (EEE)	
EEE C364	Analog Electronics
EEE C371	Electromechanical Energy Conversion
EEE C374	Power Systems
EEE C381	Electronic Devices & Integrated Circuits

EEE C383	Communication Systems
EEE C391	Digital Electronics & Computer Organization
EEE C414	Telecommunication Switching Systems & Networks
EEE C415	Digital Signal Processing
EEE C422	Modern Control System
EEE C423	Combinatorial Mathematics
EEE C424	Microelectronic Circuits
EEE C432	Medical Instrumentation
EEE C433	Electromagnetic Fields & Waves
EEE C441	Television Engineering
EEE C443	Analog & Digital VLSI Design
EEE C444	Real Time Systems
EEE C452	Electromagnetic Fields & Microwave Engineering
EEE C453	Discrete Mathematical Structures
EEE C461	Power Electronics
EEE C462	Advanced Power Systems
EEE C471	Electronic Measurements & Instrumentation
EEE C472	Satellite Communication
EEE C491	Special Projects
EEE C272	Circuits & Signals
EEE C416	Digital Communications
EEE C417	Computer Based Control Systems

Electronics & Communication Engineering	
ECE C364	Analog Electronics
ECE C313	Microelectronic Circuits
ECE C391	Digital Electronics & Computer Organizations
ECE C383	Communication Systems
ECE C392	Modern Communication Technologies
ECE C452	Electromagnetic Fields & Microwave Engineering

ECE C272	Circuits & Signals
ECE C393	Information Theory & Coding
ECE C394	Communication Networks
ECE C491	Special Projects
Electronics & Instrumentation Engineering (INSTR)	
INSTR C312	Industrial Instrumentation & Control
INSTR C313	Microelectronic Circuits
INSTR C355	Electronic Instruments & Instrumentation Technology
INSTR C364	Analog Electronics
INSTR C371	Electromechanical Energy Conversion
INSTR C381	Transducers & Measurement Systems
INSTR C391	Digital Electronics & Computer Organization
INSTR C392	Analysis Instrumentation
INSTR C411	Opto-Electronic Instruments
INSTR C414	Telecommunication Switching Systems & Networks
INSTR C421	Digital Systems
INSTR C444	Real Time Systems
INSTR C451	Process Control
INSTR C461	Power Electronics
INSTR C471	Electronics Measurements & Instrumentation
INSTR C481	Medical Instrumentation
INSTR C491	Special Projects
INSTR C272	Circuits & Signals
Mechanical Engineering (ME)	
ME C312	Design of Machine Elements
ME C314	Power Plant Engineering

ME C331	Transport Phenomena - II
ME C332	Prime Movers & Fluid Machines
ME C342	Production Techniques
ME C382	Computer Aided Design
ME C392	Advanced Mechanics of Solids & Kinematics
ME C412	Production Planning & Control
ME C422	Dynamics of Machines & Vibrations
ME C432	Computer Aided Manufacturing
ME C441	Automotive Vehicles
ME C442	Advances in Materials Science
ME C443	Quality Control, Assurance & Reliability
ME C451	Mechanical Equipment Design
ME C452	Composite Materials & Design
ME C461	Refrigeration & Air Conditioning
ME C472	Precision Engineering
ME C481	Project Appraisal
ME C491	Special Projects
Chemical Engineering (CHE)	
CHE C311	Chemical Engineering Thermodynamics
CHE C312	Kinetics & Reactor Design
CHE C322	Chemical Process Technology
CHE C351	Heat Transfer Operations
CHE C332	Process Design Decisions
CHE C361	Mass Transfer Operations
CHE C411	Environmental Pollution Control
CHE C412	Process Equipment Design
CHE C414	Transport Phenomena
CHE C421	Biochemical Engineering
CHE C422	Combustion Engineering

CHE C431	Selected Chemical Engineering Operations
CHE C432	Computer Aided Process Plant Design
CHE C441	Process Control
CHE C471	Refrigeration & Air Conditioning
CHE C491	Special Projects
CHE C413	Process Plant Safety
CHE C433	Corrosion Engineering
CHE C473	Advanced Process Control
Biotechnology (BIO)	
BIOT C336	Cell Physiology
BIOT C332	Genetics
BIOT C337	Industrial Microbiology & Bioprocess Engineering
BIOT C414	Genetic Engineering
BIOT C338	Introduction to Environmental Biology
BIOT C339	Biophysical Chemistry
BIOT C461	Recombinant DNA Technology
BIOT C346	Experiments in Biotechnology
BIOT C416	Immunology
BIOT C417	Biomolecular Modeling
BIOT C343	Genomics
BIOT C344	Proteomics
BIOT C345	Immunotechnology
BIOT C413	Molecular Biology of Cell
BIOT C216	Introductory Molecular Biology
BIOT C491	Special Projects

Note: All courses are approved by a competent committee at BITS, Pilani-Dubai and are subject to change to suit the requirement of the professional world from time to time.