

B. TECH. (ENGINEERING TECHNOLOGY)

Normal Input: Employed professionals holding a Technical Diploma or B.Sc. degree with adequate preparation in Mathematics, and having adequate, relevant work experience.

Nominal duration: The nominal duration of a B.Tech. programme will be 7 semesters.

Curriculum Requirements:

Foundation Courses	: 10 courses	(35 units min.)
Discipline Core	: 9 courses	(34 units min.)
Discipline Electives	: 5 courses	(15 units min.)
Coursework sub total	: 24	(84 units min.)
Project Work	: 12 units	

Category-wise Programme Structure:

Sub-Category	Course No.	Course Title	Units
Foundation Courses (10)			
Mathematics Foundation	MATH ZC233	Calculus	4
	MATH ZC234	Linear Algebra & Optimization	3
	AAOC ZC111	Probability and Statistics	3
Technical Arts / Professional Courses	TA ZC164	Computer Programming	4
	TA ZC312	Technical Report Writing	3
	MGTS ZC211	Principles of Management	3
Engineering Foundation	ENGG ZC232	Engineering Materials	3
	ENGG ZC241	Mechanical Technology	4
	ENGG ZC111	Electrical & Electronics Technology	4
	ENGG ZC232	Engineering Measurements	4
Discipline Courses			
Core (9)	ET ZC413	Engineering Design	4
	ET ZC423	Essentials of Project Management	3
	ET ZC344	Instrumentation & Control	4
	ENGG ZC242	Maintenance & Safety	3
	ET ZC234	Manufacturing Processes	4
	ET ZC342	Materials Management	4
	ET ZC412	Production Planning & Control	4
	ET ZC434	Quality Control, Assurance & Reliability	4
	ET ZC426	Plant Layout and Design	4
Electives (any 5)	ET ZC352	Energy Management	4
	ET ZC362	Environmental Pollution Control	3
	EA ZC412	Flexible Manufacturing Systems	4
	BITS ZC471	Management Information Systems	3
	ET ZC415	Manufacturing Excellence	4
	ET ZC323	Mechatronics & Automation	4
	ES ZC343	Microprocessors & Microcontrollers	3

**Semesterwise Pattern of courses for
B. TECH. (ENGINEERING TECHNOLOGY)**

Course No.	Course Title	Units
First Year First Semester		
ENGG ZC111	Electrical & Electronics Technology	4
ENGG ZC232	Engineering Materials	3
MATH ZC233	Calculus	4
ENGG ZC241	Mechanical Technology	4
First Year Second Semester		
AAOC ZC111	Probability & Statistics	3
TA ZC232	Engineering Measurements	4
MATH ZC234	Linear Algebra & Optimization	3
TA ZC164	Computer Programming	4
Second Year First Semester		
ENGG ZC242	Maintenance & Safety	3
ET ZC234	Manufacturing Processes	4
ET ZC413	Engineering Design	4
ET ZC412	Production Planning & Control	4
Second Year Second Semester		
ET ZC344	Instrumentation & Control	4
ET ZC342	Materials Management	4
ET ZC423	Essentials of Project Management	3
ET ZC426	Plant Layout & Design	4
Third Year First Semester		
ET ZC434	Quality Control Assurance & Reliability	4
	Discipline Elective	3(min.)
	Discipline Elective	3(min.)
	Discipline Elective	3(min.)
Third Year Second Semester		
MGTS ZC211	Principles of Management	3
TA ZC312	Technical Report Writing	3
	Discipline Elective	3(min.)
	Discipline Elective	3(min.)
Fourth Year First Semester		
BITS ZC425T	Project Work	16