

Curriculum of B.Tech Computer Engineering

(According to 1st Academic Council meeting held on 12th March 2016)

Semester 1				
Course Name	I	P	C	Category
Calculus	3	0	3	BSC
Engineering Mechanics	3	0	3	BSC
Computational Engineering	3	0	3	BEC
Basic Electrical & Electronics Engineering	3	0	3	BEC
English for Communication	2	0	2	HMC
Earth, Environment & Design	2		P/F	HMC
Engineering Skills Practice	0	3	2	BEC
Materials & Mechanics Practice	0	3	2	BSC
Computational Engineering Practice	0	3	2	BEC
Engineering Graphics	1	3	3	BEC
Total	17	12	23	
Semester 2				
Differential Equations	3	0	3	BSC
Engineering Electromagnetics	3	0	3	BSC
Science and Engineering of Materials	3	0	3	BSC
Concepts in Engineering Design	3	0	3	BEC
Design History	2	0	2	BEC
Professional Ethics for Engineers	2	0	P/F	HMC
Measurement & Data Analysis Practice	0	3	2	BSC
Engineering Electromagnetics Practice	0	3	2	BSC
Industrial Design Sketching	0	3	2	BEC
Design Realization	0	3	2	BEC
Total	16	12	22	
Semester 3				
Course Name	I	P	C	Category
Linear Algebra	3	0	3	BSC
Engineering Economics	3	0	3	HMC
Discrete Structures for Computing	3	0	3	PEC
Digital and Analog Circuits Design	3	0	3	PEC
Signals, Systems and Communication	3	0	3	PEC
Programming and Data structures	3	0	3	PEC
Digital and Analog Circuits Design Practice	0	3	2	PEC
Data Structures Practice using C-programming	0	3	2	PEC
Total	18	6	22	
Semester 4				
Course Name	I	P	C	Category
Probability Theory	3	0	3	BSC
Sociology of Design	3	0	3	HMC
Design and Analysis of Algorithms	3	0	3	PEC
Database Systems	3	0	3	PEC
Computer Organization & Design	3	0	3	PEC
Object Oriented Algorithm Design and Analysis Practice	0	3	2	PEC
Database Systems Practice	0	3	2	PEC
Computer Organization & Design Practice	0	3	2	PEC
Total	15	9	21	

Semester 5				
Course Name	I	P	C	Category
Entrepreneurship and Management Functions	3	0	3	HMC
Operating Systems	3	0	3	PEC
Computer Networking	3	0	3	PEC
Compiler Design	3	0	3	PEC
Formal Languages & Automata Theory	3	0	3	PEC
Computer Networking Practice	0	3	2	PEC
Operating Systems Practice	0	3	2	PEC
Compiler Design Practice	0	3	2	PEC
Total	15	9	21	
Semester 6				
Design for Quality and reliability	3	0	3	HMC
Artificial Intelligence	3	0	3	PEC
Computer Architecture	3	0	3	PEC
Computer Architecture Practice	0	3	2	PEC
Artificial Intelligence Practice	0	3	2	PEC
Product Design Practice	0	3	2	PCD
Elective - I	3	0	3	ELE
Elective – II	3	0	3	ELE
Total	15	9	21	
Semester 7				
Course Name	I	P	C	Category
Industry Internship	0	-	5	PCD
Free Elective - I	3	0	3	ELE
Design Project	0	6	5	PCD
Total	3	6	13	
Semester 8				
Course Name	I	P	C	Category
Elective – III	3	0	3	ELE
Free Elective-II	3	0	3	ELE
Management Elective	3	0	3	HMC
Project	0	-	10	PCD
Total	9		19	

Note:

- Elective courses such as
 - Intelligent Product Design
 - Sustainable Design
 - New Product Management
- will be offered as a group to choose in Elective III