

Curriculum B.Tech Computer Engineering : 2014 Batch onward
(According to 28th Senate meeting held on 23.12.2015)

Semester 1				
Course Name	I	P	C	Category
Calculus	3	0	3	BSC
Engineering Mechanics	3	0	3	BSC
Computational Engineering / Basic Electrical & Electronics Engineering	3	0	3	BEC / BEC
Concepts in Engineering Design/ Science and Engineering of Materials	3	0	3	DES / BEC
English for Communication	2	0	2	HMC
Earth, Environment & Design/ Professional Ethics for Engineers	2		P/F	DES / HMC
Engineering Skills Practice	0	3	2	BEC
Materials & Mechanics Practice	0	3	2	BSC
Computational Engineering Practice/ Measurement & Data Analysis Practice	0	3	2	BEC / BSC
Engineering Graphics	1	3	3	BEC
Total			23	
Semester 2				
Differential Equations	3	0	3	BSC
Engineering Electromagnetics	3	0	3	BSC
Basic Electrical & Electronics Engineering/ Computational Engineering	3	0	3	BEC / BEC
Science and Engineering of Materials / Concepts in Engineering Design	3	0	3	BEC / DES
Design History	2	0	2	DES
Professional Ethics for Engineers / Earth, Environment & Design	2	0	P/F	HMC / DES
Measurement & Data Analysis Practice/ Computational Engineering Practice	0	3	2	BSC / BEC
Industrial Design Sketching	0	3	2	DES
Engineering Electromagnetics Practice	0	3	2	BSC
Design Realization	0	3	2	DES
Total			22	
Semester 3				
Course Name	I	P	C	Category
Linear Algebra	3	0	3	BSC
Systems Thinking for Design	2	0	2	DES
Engineering Economics	2	0	2	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			23	

Semester 4				
Course Name	I	P	C	Category
Probability Theory	3	0	3	BSC
Designing Intelligent Systems	2	0	2	DES
Sociology of Design	2	0	2	HMC
Design and Analysis of Algorithms	3	0	3	PEC
Database Systems	3	0	3	PEC
Computer Organization and 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 and Design Practice	0	3	2	PEC
Total			22	
Semester 5				
Course Name	I	P	C	Category
Sustainable Design	2	0	2	DES
Entrepreneurship and Management Functions	2	0	2	HMC
Operating Systems	3	0	3	PEC
Computer Networking	3	0	3	PEC
VLSI System Design	3	0	3	PEC
Automata and Compiler Design	3	0	3	PEC
Computer Networking Practice	0	3	2	PEC
Operating Systems Practice	0	3	2	PEC
VLSI System Design Practice	0	3	2	PEC
Total			22	
Semester 6				
Course Name	I	P	C	Category
Design for Quality and reliability	2	0	2	DES
Product Management	2	0	2	HMC
Embedded Systems	3	0	3	PEC
Computer Architecture	3	0	3	PEC
Computer Architecture Practice	0	3	2	PEC
Embedded Systems 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			22	
Semester 7				
Course Name	I	P	C	Category
Internship	0	-	5	PCD
Human Computer Interaction	3	0	3	PEC
Free Elective – I	3	0	3	ELE
Design Project	0	6	5	DES
Total			16	
Semester 8				
Course Name	I	P	C	Category
Elective – III	3	0	3	ELE
Free Elective-II	3	0	3	ELE
Innovation Management	2	0	2	HMC
Project	0	-	10	PCD
Total			18	