CURRICULUM

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

Semester 1					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Calculus	3	0	3	BSC	MAT104T
Engineering Mechanics	3	0	3	BSC	PHY108T
Computational Engineering / Basic Electrical and Electronics Engineering	3	0	3	BEC / BEC	COM105T / ELE103T
Concepts in Engineering Design/ Science and Engineering of Materials	3	0	3	DES / BEC	DES101T / INT108T
English for Communication	2	0	2	HMC	INT107T
Earth, Environment & Design/ Professional Ethics for Engineers	2		P/F	DES / HMC	DES103T / MAN102T
Engineering Skills Practice	0	3	2	BEC	INT110P
Materials & Mechanics Practice	0	3	2	BSC	PHY109P
Computational Engineering Practice/ Measurement & Data Analysis Practice	0	3	2	BEC / BSC	COM105P / INT111P
Engineering Graphics	1	3	3	BEC	INT109P
Total			**23**		
Semester 2					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Differential Equations	3	0	3	BSC	MAT105T
Engineering Electromagnetics	3	0	3	BSC	PHY107T
Basic Electrical and Electronics Engineering/ Computational Engineering	3	0	3	BEC / BEC	ELE103T / COM105T
Science and Engineering of Materials / Concepts in Engineering Design	3	0	3	BEC / DES	INT108T / DES101T
Design History	2	0	2	DES	DES102T
Professional Ethics for Engineers / Earth, Environment & Design	2	0	P/F	HMC / DES	MAN102T / DES103T
Measurement & Data Analysis Practice/ Computational Engineering Practice	0	3	2	BSC / BEC	INT111P / COM105P
Industrial Design Sketching	0	3	2	DES	DES104P
Engineering Electromagnetics Practice	0	3	2	BSC	PHY107P
Design Realization	0	3	2	DES	DES105P
Total			**22**		
Semester 3					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Linear Algebra	3	0	3	BSC	MAT204T
Systems Thinking for Design	2	0	2	DES	DES201T
Engineering Economics	2	0	2	HMC	MAN201T
Discrete Structures for Computing	3	0	3	PEC	COM205T
Digital and Analog Circuits Design	3	0	3	PEC	COM206T
Signals, Systems and Communications	3	0	3	PEC	ELE216T
Programming and Data Structures	3	0	3	PEC	COM207T
Digital and Analog Circuits Design Practice	0	3	2	PEC	COM206P
Data Structures Practice using C-programming	0	3	2	PEC	COM207P
Total			**23**		

Semester 4				
Course Name	**I**	**P**	**C**	**Category**	**Code**
Probability Theory	3	0	3	BSC	MAT205T
Designing Intelligent Systems	2	0	2	DES	DES203T
Sociology of Design	2	0	2	HMC	MAN202T
Design and Analysis of Algorithms	3	0	3	PEC	COM209T
Database Systems	3	0	3	PEC	COM212T
Computer Organization and Design	3	0	3	PEC	COM211T
Object Oriented Algorithm Design and Analysis Practice	0	3	2	PEC	COM210P
Database Systems Practice	0	3	2	PEC	COM212P
Computer Organization and Design Practice	0	3	2	PEC	COM211P
Total			**22**		
Semester 5					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Sustainable Design	2	0	2	DES	DES301T
Entrepreneurship and Management Functions	2	0	2	HMC	MAN301T
Operating Systems	3	0	3	PEC	COM301
Computer Networking	3	0	3	PEC	COM302
VLSI System Design	3	0	3	PEC	ELE301T
Automata and Compiler Design	3	0	3	PEC	COM306T
Computer Networking Practice	0	3	2	PEC	COM302P
Operating Systems Practice	0	3	2	PEC	COM301P
VLSI System Design Practice	0	3	2	PEC	ELE301P
Total			**22**		
Semester 6					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Design for Quality and Reliability	2	0	2	DES	DES302T
Product Management	2	0	2	HMC	MAN303T
Embedded Systems	3	0	3	PEC	ELE323T
Computer Architecture	3	0	3	PEC	COM307T
Computer Architecture Practice	0	3	2	PEC	COM307P
Embedded Systems Practice	0	3	2	PEC	ELE323P
Product Design Practice	0	3	2	PCD	INT303
Elective – I	3	0	3	ELE	-
Elective – II	3	0	3	ELE	-
Total			**22**		
Semester 7					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Internship	0	-	5	PCD	INT404
Human Computer Interaction	3	0	3	PEC	COM402T
Free Elective – I	3	0	3	ELE	-
Design Project	0	6	5	DES	DES401
Total			**16**		
Semester 8					
Course Name	**I**	**P**	**C**	**Category**	**Code**
Elective – III	3	0	3	ELE	-
Free Elective-II	3	0	3	ELE	-
Innovation Management	2	0	2	HMC	MAN407T
Project	0	-	10	PCD	INT405
Total			**18**		

*Internship is for a period of 5 months