

Curriculum B.Tech Electronics and Communication Engineering (Design and Manufacturing)

(According to 30th Senate meeting held on 22nd March 2016)

SEMESTER 1				
Courses	I	P	C	Category
Calculus	3	0	3	BSC
Engineering Mechanics	3	0	3	BSC
Computational Engineering / Basic Electrical and 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	0	P/F	DES/ HMC
Engineering Skills Practice	0	3	2	BEC
Materials and 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				
Courses	I	P	C	Category
Differential Equations	3	0	3	BSC
Engineering Electromagnetics	3	0	3	BSC
Basic Electrical and 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 and 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				
Courses	I	P	C	Category
Linear Algebra	3	0	3	BSC
Systems Thinking for Design	2	0	2	DES
Engineering Economics	2	0	2	HMC
Digital Logic Design	3	0	3	PEC
Signals and Systems	3	0	3	PEC
Analog Circuits	3	0	3	PEC
Analog Circuits Practice	0	3	2	PEC
DLD Practice	0	3	2	PEC
Total			20	

SEMESTER 4				
Courses	I	P	C	Category
Probability Theory	3	0	3	BSC
Designing Intelligent Systems	2	0	2	DES
Sociology of Design	2	0	2	HMC
Control Systems	3	0	3	PEC
Digital Signal Processing	3	0	3	PEC
Power Electronics	3	0	3	PEC
Data Structures and Algorithms Practice	1	3	3	PEC
Electrical Drives Practice	1	3	3	PEC
Digital Signal Processing Practice	0	3	2	PEC
Total			24	
SEMESTER 5				
Courses	I	P	C	Category
Sustainable Design	2	0	2	DES
Entrepreneurship and Management Functions	2	0	2	HMC
Information Theory and Coding	3	0	3	PEC
Micro Processors and Computer Architecture	3	0	3	PEC
Analog and Digital Communication	3	0	3	PEC
Sensing and Instrumentation Practice	0	3	2	PEC
MicroProcessors and Micro Controllers Practice	0	3	2	PEC
Analog and Digital Communication Practice	0	3	2	PEC
Electronic Manufacturing and Prototyping	1	3	3	PEC
Total			22	
SEMESTER 6				
Courses	I	P	C	Category
Design for Quality and Reliability	2	0	2	DES
Product Management	2	0	2	HMC
VLSI Design	3	0	3	PEC
Data Communication Networks	3	0	3	PEC
VLSI Design Practice	0	3	2	PEC
Embedded System Design	1	3	3	PEC
Product Design Practice	0	3	2	PCD
Elective I	3	0	3	ELE
Elective II	3	0	3	ELE
Total			23	
SEMESTER 7				
Courses	I	P	C	Category
Internship	0	-	5	PCD
Mechanical Design of Electronic Systems	3	0	3	PEC
Free Elective - I	3	0	3	ELE
Design Project	0	6	5	DES
Total	-	-	16	
SEMESTER 8				
Courses	I	P	C	Category
Elective - III	3	0	3	ELE
Free Elective - II	3	0	3	ELE
Innovation Management	2	0	2	HMC
Project	-	-	10	PCD
Total			18	