

CURRICULUM



**B Tech – Electronics Engineering (Design & Manufacturing)
[2008 Batch Onwards]**

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN & MANUFACTURING, KANCHEEPURAM**

B. TECH – ELECTRONICS ENGINEERING (DESIGN & MANUFACTURING)
[2008Batchonwards]

Semester 1

Course No	Course Name	L	T	P	C	Cat	NEW CAT
ELE 101	Basic Electrical & Electronics Engineering	3	0	0	3	BEC	BEC
MAT 101	Calculus	3	0	0	3	SMA	BSC
COM 102	Computational Engineering	3	0	0	3	BEC	AEC
PHY 105	Mechanics and Wave	3	0	0	3	SPH	BSC
MEC 107	Thermal Science for Electronics Engineering	3	0	0	3	BEC	BEC
INT 101	Graphic Art Practice	0	0	3	2	BEC	DES
COM 102P	Computational Engineering Practice	0	0	3	2	BEC	AEC
INT 103	Electronics Engineering Practice	0	0	3	2	BEC	BEC
PHY 105P	Mechanics and Wave Practice	0	0	3	2	SPH	BSC
	Total	15	0	12	23		

Semester 2

Course No	Course Name	L	T	P	C	Cat	NEW CAT
ELE 102	Digital Logic Design	3	0	0	3	PMC	PEC
MAT 103	ODEs & PDEs	3	0	0	3	SMA	BSC
INT 104	English for Communication	2	0	0	2	HSS	HMC
PHY 106	Electromagnetics and Quantum Mechanics	3	0	0	3	SPH	BSC
MEC 109	Statics & Strength of Materials	3	1	0	4	BEC	AEC
ELE 102P	Digital Logic Design Practice	0	0	3	2	PMC	PEC
INT 102	Basic Engineering Practice	0	0	3	2	BEC	BEC
INT 105	Engineering Drawing	1	0	3	3	BEC	AEC
PHY 106P	Electromagnetics and Quantum Mechanics Practice	0	0	3	2	SPH	BSC
	Total	15	1	12	24		

Semester 3

Course No	Course Name	L	T	P	C	Cat	NEW CAT
INT 201	Concepts in Engineering Design	3	0	0	3	BEC	DES
MAT 201	Linear Algebra & Optimization	3	0	0	3	SMA	BSC
ELE 206	Networks and Systems	3	0	0	3	PMC	PEC
ELE 207	Solid State Devices	3	0	0	3	PMC	PEC
ELE 208	Electromechanical Energy Conversion	3	0	0	3	PMC	PEC
ELE 206P	Networks and Systems Practice	0	0	3	2	PMC	PEC
ELE 207P	Solid State Devices Practice	0	0	3	2	PMC	PEC
ELE 208P	Electromechanical Energy Conversion Practice	0	0	3	2	PMC	PEC
	Total	15	0	9	21		

Semester 4

Course No	Course Name	L	T	P	C	Cat	NEW CAT
MAT 203	Probability & Statistics	3	0	0	3	SMA	BSC
ELE 211	Control Engineering	3	0	0	3	PMC	AEC
ELE 212	Principles of Measurements	3	0	0	3	PMC	AEC
ELE 213	Analog Circuits	3	0	0	3	PMC	PEC
ELE 214	Power Electronics and Industrial Drives	3	0	0	3	PMC	AEC
ELE 211P	Control Engineering Practice	0	0	3	2	PMC	AEC
ELE 212P	Principles of Measurements Practice	0	0	3	2	PMC	AEC
ELE 213P	Analog Circuits Practice	0	0	3	2	PMC	PEC
ELE 214P	Power Electronics and Industrial Drives Practice	0	0	3	2	PMC	AEC
	Total	15	0	12	23		

Semester 5

Course No	Course Name	L	T	P	C	Cat	NEW CAT
INT 302	Ecology and Environment	2	0	0	2	HSS	HMC
ELE 305	Electronic Instrumentation	3	0	0	3	PMC	PEC
ELE 306	Analog IC Applications	2	0	0	2	PMC	PEC
ELE 307	Applied DSP	3	0	0	3	PMC	PEC
ELE 308	Computer Organization and Microprocessors	3	0	0	3	PMC	AEC
ELE 305P	Electronic Instrumentation Practice	0	0	3	2	PMC	PEC
ELE 306P	Analog IC Applications Practice	0	0	3	2	PMC	PEC
ELE 307P	Applied DSP Practice	0	0	3	2	PMC	PEC
ELE 308P	Computer Org. and Microprocessors Practice	0	0	3	2	PMC	AEC
	Total	13	0	12	21		

Semester 6

Course No	Course Name	L	T	P	C	Cat	NEW CAT
MAN 302	Quality and Reliability Management	3	0	0	3	HSS	HMC
ELE 310	Electronic Manufacturing & Packaging Techniques	3	0	0	3	PMC	PEC
ELE 311	VLSI Design	3	0	0	3	PMC	PEC
ELE 312	PCB/Prototype Design and Development	2	0	0	2	PMC	PEC
INT 303	Product Design and Practice	0	0	3	2	PMC	DES
ELE 311P	VLSI Design Practice	0	0	3	2	PMC	PEC
ELE 312P	PCB/Prototype Design and Development Practice	0	0	3	2	PMC	PEC
	Elective 1	3	0	0	3	ELE	PEC
Total		14	0	9	20		

Semester 7

Course No	Course Name	L	T	P	C	Cat	NEW CAT
ELE 401	Embedded Systems	3	0	0	3	PMC	PEC
MAN 401	Professional Ethics	2	0	0	2	HSS	HMC
ELE 402	Data Networks	3	0	0	3	PMC	PEC
ELE 401P	Embedded Systems Practice	0	0	3	2	PMC	PEC
ELE 402P	Data Networks Practice	0	0	3	2	PMC	PEC
INT 401	Mini Project	0	0	3	2	PMP	PEC
	Elective 2	3	0	0	3	ELE	PEC
	Elective 3	3	0	0	3	ELE	PEC
Total		14	0	9	20		

Semester 8

Course No	Course Name	L	T	P	C	Cat	NEW CAT
MAN 404	Finance Management	3	0	0	3	HSS	HMC
INT 402	Project	0	0	24	16	PMP	PEC
	Elective 4	3	0	0	3	ELE	PEC
Total		6	0	24	22		

Compulsory Activities: Summer Internship(2nd or 3rd year vacation), Industrial Lecture, NSS/NCC/Yoga

BSC	BEC	PEC	HMC	AEC	DES	Total
22	10	91	12	32	07	174