

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212301	Engineering Mathematics - III	ES	4	2	0	0	0	50	75	5	125
07212302	Semiconductor Devices and Circuits	C	3	0	0	0	0	30	45	3	75
07212303	Network Analysis & Synthesis	C	4	0	0	0	0	40	60	4	100
07212304	Electronic Circuits Simulation and Testing	C	3	0	0	0	0	30	45	3	75
07212305	Digital Electronics	C	4	0	0	0	0	40	60	4	100
07212306	Electrical Machines	ID	3	0	0	0	0	30	45	3	75
07212307	Semiconductor Devices and Circuits Lab	C	0	0	2	10	15	0	0	1	25
07212308	Network Analysis & Synthesis Lab	C	0	0	2	10	15	0	0	1	25
07212309	Electronic Circuits Simulation and Testing Lab	C	0	0	2	10	15	0	0	1	25
07212310	Digital Electronics Lab	C	0	0	2	10	15	0	0	1	25
07212311	Electrical Machines Lab	ID	0	0	2	10	15	0	0	1	25
Total			21	2	10	50	75	220	330	27	675

Semester IV											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212401	Signals and Systems	C	4	0	0	0	0	40	60	4	100
07212402	Analog +Digital Communication	C	4	0	0	0	0	40	60	4	100
07212403	Data Structures and Algorithms	ID	4	0	0	0	0	40	60	4	100
07212404	Electromagnetic Field Theory	C	4	2	0	0	0	40	60	4	100
07212405	Electronic Circuits and Applications	C	4	0	0	0	0	40	60	4	100
07212406	Signals and Systems Lab	C	0	0	2	10	15	0	0	1	25
07212407	Analog +Digital Communication Lab	C	0	0	2	10	15	0	0	1	25
07212408	Data Structures and Algorithms Lab	ID	0	0	2	10	15	0	0	1	25
07212409	Electronic Circuits and Applications Lab	C	0	0	2	10	15	0	0	1	25
07212410	Electronics Workshop Practice	C	0	2	0	0	0	50	0	2	50
07212411	Integrated Disaster Management	GP	3#	0	0	0	0	0	75#	0	3#
Total			20	4	8	40	60	250	300	26	650

Semester V											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212501	Analog Circuit Design	C	4	0	0	0	0	40	60	4	100
07212502	VLSI Design	C	4	0	0	0	0	40	60	4	100
07212503	Feedback Control systems	C	4	0	0	0	0	40	60	4	100
07212504	Microcontrollers and applications	C	4	0	0	0	0	40	60	4	100
07212505	Power Electronics	C	4	0	0	0	0	40	60	4	100
07212506	Analog Circuit Design Lab	C	0	0	2	10	15	0	0	1	25
07212507	VLSI Design Lab	C	0	0	2	10	15	0	0	1	25
07212508	Feedback Control systems Lab	C	0	0	2	10	15	0	0	1	25
07212509	Microcontrollers and applications Lab	C	0	0	2	10	15	0	0	1	25
07212510	Power Electronics Lab	C	0	0	2	10	15	0	0	1	25
07212511	Engineering Economics	ID	1	0	0	0	0	25	0	1	25
Total			21	0	10	50	75	225	300	26	650
Semester VI											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212601	Electronic Instr. & Measurement	ID	3	0	0	0	0	30	45	3	75
07212602	Digital Signal Processing	C	4	0	0	0	0	40	60	4	100
07212603	Product Design	C	4	0	0	0	0	40	60	4	100
07212604	Computer Networks Wireless Voice	C	4	0	0	0	0	40	60	4	100
07212605	Optical and Microwave Communication	C	4	0	0	0	0	40	60	4	100
07212606	Electronic Instrumentation & Measurement Lab	ID	0	0	2	10	15	0	0	1	25
07212607	Digital Signal Processing Lab	C	0	0	2	10	15	0	0	1	25
07212608	Product Design Lab	C	0	0	2	10	15	0	0	1	25
07212609	Computer Networks Wireless Voice Lab	C	0	0	2	10	15	0	0	1	25
07212610	Optical and Microwave Communication Lab	C	0	0	2	10	15	0	0	1	25
07212611	Robotics	ID	4	0	0	0	0	40	60	4	100
Total			23	0	10	50	75	230	345	28	700

OR											
Semester Exchange at IUPUI											
Subject Code	Subject	Nature of Subject	Examination Scheme Marks							Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212603	Product Design	C	4	0	0	0	0	40	60	4	100
07212604	Computer Networks Wireless Voice	C	4	0	0	0	0	40	60	4	100
07212606	Electronic Instrumentation & Measurement Lab	ID	0	0	2	10	15	0	0	1	25
07212607	Digital Signal Processing Lab	C	0	0	2	10	15	0	0	1	25
07212608	Product Design Lab	C	0	0	2	10	15	0	0	1	25
07212609	Computer Networks Wireless Voice Lab	C	0	0	2	10	15	0	0	1	25
07212610	Optical and Microwave Communication Lab	C	0	0	2	10	15	0	0	1	25
07212611	Robotics	ID	4	0	0	0	0	40	60	4	100
07212612	Project							25		1	25
07212613	Semester Exchange at IUPUI								250	10	250
	Total									28	700
Semester VII											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
	Group A										
07212701	Industrial Projects	PD	0	0	0	0	0	400	0	16	400
07212702	Report+Seminar	PD	0	0	0	0	0	100	0	4	100
	Total		0	0	0	0	0	500	0	20	500
	Group B										
07212703	Internship	PD	0	0	0	0	0	150	0	6	150
07212704	Software Testing	ID	3	0	0	0	0	30	45	3	75
07212705	Entrepreneurship	GP	3	0	0	0	0	30	45	3	75
07212706	Project	PD	0	0	8	50	0	50	0	4	100
07212707	Liberal Arts	GP	0	0	4	50	0	0	0	2	50
07212708	Service Learning	GP	0	0	4	50	0	0	0	2	50
	Total		6	0	16	150	0	260	90	20	500

Semester VIII											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212801-4	Elective I	C	4	0	0	0	0	40	60	4	100
07212805-9	Elective II	C	4	0	0	0	0	40	60	4	100
07212810-15	Elective III	ID	4	0	0	0	0	40	60	4	100
07212816	Seminar I	PD	0	4	0	0	0	50	0	2	50
07212817	Project	PD	0	0	16	50	50	100	0	8	200
07212818-21	Elective I Lab	C	0	0	2	10	15	0	0	1	25
07212822-26	Elective II Lab	C	0	0	2	10	15	0	0	1	25
07212827-32	Elective III Lab	ID	0	0	2	10	15	0	0	1	25
Total			12	4	22	80	95	270	180	25	625
Grand total (Excluding first year) VII- A			96	8	64	270	380	1695	1455	152	3800
Grand total (Excluding first year) VII- B			102	8	80	420	380	1455	1545	152	3800

Electives I											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212801	Embedded Systems	C	4	0	0	0	0	40	60	4	100
07212802	Information Theory and Coding Techniques	C	4	0	0	0	0	40	60	4	100
07212803	System Programming	ID	4	0	0	0	0	40	60	4	100
07212804	Electronics Design	C	4	0	0	0	0	40	60	4	100
07212818	Embedded Systems Lab	C	0	0	2	10	15	0	0	1	25
07212819	Information Theory and Coding Techniques Lab	C	0	0	2	10	15	0	0	1	25
07212820	System Programming Lab	ID	0	0	2	10	15	0	0	1	25
07212821	Electronics Design Lab	C	0	0	2	10	15	0	0	1	25

Electives II											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212805	Digital Image Processing	C	4	0	0	0	0	40	60	4	100
07212806	Speech Signal Processing	C	4	0	0	0	0	40	60	4	100
07212807	Advanced Microprocessor and DSP	C	4	0	0	0	0	40	60	4	100
07212808	Embedded RTOS	C	4	0	0	0	0	40	60	4	100
07212809	Error Correcting Codes	C	4	0	0	0	0	40	60	4	100
07212822	Digital Image Processing Lab	C	0	0	2	10	15	0	0	1	25
07212823	Speech Signal Processing Lab	C	0	0	2	10	15	0	0	1	25
07212824	Advanced Microprocessor and DSP Lab	C	0	0	2	10	15	0	0	1	25
07212825	Embedded RTOS Lab	C	0	0	2	10	15	0	0	1	25
07212826	Error Correcting Codes Lab	C	0	0	2	10	15	0	0	1	25

Electives III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07212810	Network Security	ID	4	0	0	0	0	40	60	4	100
07212811	Artificial Intelligence	ID	4	0	0	0	0	40	60	4	100
07212812	Mobile Computing	ID	4	0	0	0	0	40	60	4	100
07212813	Advanced Sensors and Transducers	ID	4	0	0	0	0	40	60	4	100
07212814	Introduction to MEMS	ID	4	0	0	0	0	40	60	4	100
07212815	Biomedical Instrumentation	ID	4	0	0	0	0	40	60	4	100
07212827	Network Security Lab	ID	0	0	2	10	15	0	0	1	25
07212828	Artificial Intelligence Lab	ID	0	0	2	10	15	0	0	1	25
07212829	Mobile Computing Lab	ID	0	0	2	10	15	0	0	1	25
07212830	Advanced Sensors and Transducers Lab	ID	0	0	2	10	15	0	0	1	25
07212831	Introduction to MEMS Lab	ID	0	0	2	10	15	0	0	1	25
07212832	Biomedical Instrumentation Lab	ID	0	0	2	10	15	0	0	1	25

L- Lecture , T-Tutorial,

C - Core Subject

ES - Engineering Science Subject

GP - General Proficiency Subject

ID - Inter Disciplinary Subject

PD - Professional Development Subject

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Int- Internal (Practical)

Ext- External (Practical)

Practical external examination may be conducted by alternate internal faculty

- Credits Over & above 200