

## Course structure for 4 year B. Tech. program [Effective from 2013-14]

### Year I, Semester-I

Branch: Electronics Engineering

S. No.	Course Code	Subject	Periods			Evaluation Scheme				Subject Total	Credit
						Sessional			Examination		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.	IMA101	Mathematics I	3	1	0	30	20	50	100	150	4
2.	IPH101	Physics	3	1	0	30	20	50	100	150	4
3.	IEE101	Electrical Engineering	3	1	0	30	20	50	100	150	4
4.	IME101	Engineering Mechanics	3	1	0	30	20	50	100	150	4
5.	IHU101	Professional Communication	3	1	0	30	20	50	100	150	4
6.	IHU102	Remedial English	2	0	0				50	50	Audit
		<b>Practical /Design/Drawing</b>									
7.	IPH151	Physics	0	0	3	15	10	25	25	50	1
8.	IHU151	Language Lab	0	0	3	15	10	25	25	50	1
9.	IEE151	Electrical Engineering	0	1	3	30	20	50	50	100	2
10.	IGP101	General Proficiency	-	-	-	-	-	50	-	50	
										1000	

TA- Teachers assessment

ESE- End semester examination

CT- cumulative test

Note- Duration of ESE shall be 3 (Three) hours for subjects carrying 100 marks and 2 (Two) hours for those carrying 50 marks

## Year I, Semester-II

Branch: Electronics Engineering

S. No.	Course Code	SUBJECT	PERIODS			Evaluation Scheme				Subject Total	Credit
						SESSIONAL			Examination		
						CT	TA	Total	ESE		
		<b>Theory</b>	L	T	P						
1.	IMA 201	Mathematics II	3	1	0	30	20	50	100	150	4
2.	ICY 201	Chemistry	3	1	0	30	20	50	100	150	4
3.	IET 201	Electronics and Instrumentation Engineering	3	1	0	30	20	50	100	150	4
4.	ICS 201	Concepts of Computer and C programming	3	1	0	30	20	50	100	150	4
5.	ICE 201	Engineering Graphics	3	1	0	30	20	50	100	150	4
6.	ICE 201	Environment and Ecology	2	0	0				50	50	Audit
		<b>Practical /Design/Drawing</b>									
7.	ICY 251	Chemistry	0	0	3	15	10	25	25	50	1
8.	ICS 251	Computer Lab	0	0	3	15	10	25	25	50	1
9.	IWS 251	Workshop Practice	0	1	3	30	20	50	50	100	2
10.	IGP 201	General Proficiency	-	-	-	-	-	50	-	50	
11.						-	-	-	-	1000	

TA- Teachers assessment

ESE- End semester examination

CT- cumulative test

Note- Duration of ESE shall be 3 (Three) hours for subjects carrying 100 marks and 2 (Two) hours for those carrying 50 marks

## Year II, Semester-III

Branch: Electronics Engineering

S. No.	Course Code	Subject	Periods			Evaluation Scheme				Subject Total	Credit
						Sessional Exam			ESE		
						CT	TA	Total	ESE		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.	IMA 302	Computer Oriented Numerical and Statistical Techniques	3	1	0	30	20	50	100	150	4
2.	IEE 303	Networks Analysis and Synthesis	3	1	0	30	20	50	100	150	4
3.	IEE 302	Electrical Measurements and Measuring Instruments	3	1	0	30	20	50	100	150	4
4.	IET 301	Solid State Devices And Circuits	3	1	0	30	20	50	100	150	4
5.	IET 302	Digital Electronics	3	1	0	30	20	50	100	150	4
		<b>Practical/Training/Project</b>									
6.	IEE 353	Network Lab	0	0	2	15	10	25	25	50	1
7.	IMA 352	Numerical Techniques Lab	0	0	2	15	10	25	25	50	1
8.	IET 351	Solid State Devices and Circuits Lab	0	0	2X2	30	20	50	50	100	2
9.	IGP 301	General Proficiency	-	-	-	-	-	50	-	50	
		Total	15	5	8	-	-	-	-	1000	

## Year II, Semester-IV

Branch: Electronics Engineering

S. No.	Course Code	SUBJECT	Periods			Evaluation Scheme				Subject Total	Credit
						Sessional			Examination		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.	ICS 407	Data Structures	3	1	0	30	20	50	100	150	4
2.	IEE 405	Electrical Machines	3	1	0	30	20	50	100	150	4
3.	IET 401	Electromagnetic Field Theory	3	1	0	30	20	50	100	150	4
4.	IET 402	Signals and Systems	3	1	0	30	20	50	100	150	4
5.	IPH 401	Solid State Physics	3	1	0	30	20	50	100	150	4
		<b>Practical/Training/Project</b>									
7.	ICS 455	Data Structures Lab	0	0	3	15	10	25	25	50	1
8.	IEE 455	Electrical Machines Lab	0	0	3	15	10	25	25	50	1
9.	IET 451	Electronic Workshop and PCB Lab	0	0	3	15	10	25	25	50	1
10.	IET 452	Digital Electronics Lab	0	0	3	15	10	25	25	50	1
	IGP 501	General Proficiency	-	-	-	-	-	50	-	50	
		Total	15	5	12	-	-	-	-	1000	

## Year III, Semester-V

Branch: Electronics Engineering

S. No.	Course Code	Subject	Periods			Evaluation Scheme				Subject Total	Credit
						Sessional			Examination		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.	IHU 501	Industrial Economics and Principle of Management	3	1	0	30	20	50	100	150	4
2.	IEE	Automatic Control System	3	1	0	30	20	50	100	150	4
3.	IET 501	Analog Communication	3	1	0	30	20	50	100	150	4
4.	IET 502	Antenna and Microwaves	3	1	0	30	20	50	100	150	4
5.	IET 503	Microprocessors	3	1	0	30	20	50	100	150	4
		<b>Practical/Training/Project</b>									
6.	IET 551	Analog Communication Lab	0	0	2X2	30	20	50	50	100	2
7.	IET 552	Microprocessor Lab	0	0	2X2	30	20	50	50	100	2
8.	IGP 501	General Proficiency	-	-	-	-	-	50	-	50	
		<b>Total</b>	15	5	8	-	-	-	-	1000	

## Year III, Semester-VI

Branch: Electronics Engineering

S. No.	Course Code	Subject	Periods			Evaluation Scheme				Subject Total	Credit
						Sessional			Examination		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.	IEE 603	Power Electronics	3	1	0	30	20	50	100	150	4
2.	IET 601	Analog Integrated Circuits	3	1	0	30	20	50	100	150	4
3.	IET 602	Digital Communication	3	1	0	30	20	50	100	150	4
4.	IET 603	Advanced Instrumentation	3	1	0	30	20	50	100	150	4
5.	IET 604	VLSI Design	3	1	0	30	20	50	100	150	4
		<b>Practical/Training/Project</b>									
6.	IEE 653	Power Electronics Lab	0	0	2	10	10	20	30	50	1
7.	IET 651	Analog Integrated Circuits Lab	0	0	2X2	30	20	50	50	100	2
8.	IET 652	VLSI Design Lab	0	0	3	15	10	25	25	50	1
9.	IGP 601	General Proficiency	-	-	-	-	-	50	-	50	
		Total	15	5	10	-	-	-	-	1000	

Note- 4 to 6 Weeks Industrial Interaction after VI semester exam to be evaluated in VII semester

## Year IV, Semester-VII

Branch: Electronics Engineering

S. No.	Course Code	SUBJECT	PERIODS			Evaluation Scheme				Subject Total	Credit
						SESSIONAL			Examination		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.		Open Elective	3	1	0	30	20	50	100	150	4
2.	ICS	Computer Network	3	1	0	30	20	50	100	150	4
3.	IET 701	Digital Signal Processing	3	1	0	30	20	50	100	150	4
4.	IET 702	Wireless Communications	3	1	0	30	20	50	100	150	4
5.	IET	Elective-I	3	1	0	30	20	50	100	150	4
		<b>Practical/Training/Project</b>									
6.	IET 751	Digital Signal Processing Lab	0	0	3	15	10	25	25	50	1
7.	IET 752	Project	0	0	6	-	-			100	2
8.	IET 753	Industrial / Practical Training and Report Presentation	0	0	3	-	50	50	-	50	1
9.	IGP 701	General Proficiency	-	-	-	-	-	50	-	50	
		Total	15	5	12	-	-	-	-	1000	

## Year IV, Semester-VIII

Branch: Electronics Engineering

S. No.	Course Code	Subject	Periods			Evaluation Scheme				Subject Total	Credit
						Sessional			Examination		
		<b>Theory</b>	L	T	P	CT	TA	Total	ESE		
1.	IHU 801	Engineering Economics and Management	3	1	0	30	20	50	100	150	4
2.	IET	Elective-II	3	1	0	30	20	50	100	150	4
3.	IET	Elective-III	3	1	0	30	20	50	100	150	4
4.	IET 801	Optical Communication	3	1	0	30	20	50	100	150	4
		<b>Practical/Training/Project</b>									
5.	IET 851	Seminar	0	0	3	15	10	25	25	50	1
6.	IET 852	Communication Lab	0	0	3	15	10	25	25	50	1
	IET 853	Project			10				250	250	4
7.	IGP 801	General Proficiency	-	-	-	-	-	50	-	50	
		Total	12	4	16	-	-	-	-	1000	

<b>Elective I</b>		<b>Elective II</b>		<b>Elective III</b>	
IET 711	Satellite Communications	IET 821	Telecommunication Switching	IET 831	Information Theory and Coding
IET 712	VLSI Technology	IET 822	Digital System Design Using VHDL	IET 832	Embedded Systems
IET 713	Optoelectronics	IET 823	VLSI system Design	IET 833	Architecture and Application of Digital Signal Processors
IET 714	Radar Engineering	IET 824	Image Processing	IET 834	Optical Networks
IET 715	Fuzzy Logic with Electronics Engineering Applications	IET 825	Advanced Semiconductor Devices	IET 835	Bio Medical Signal Processing



## **List of Open Electives**

- 1. Fuzzy Logic with Electronics Engineering Applications**
- 2. Biomedical Electronics**
- 3. Digital Signal Processing**
- 4. Mobile Communication**
- 5. VLSI System Design**
- 6. Satellite Communications**
- 7. Image Processing**