## COURSE STRUCTURE FOR B. TECH. ETC Engg

<u>First Semester</u>				Class	Class Load/Week				
Sl. No.	Type	Course Name	Course code			W eek P	Credit	Class load/ week	Marks
1	BSC	Engineering Mathematics – I	MA1101N	3	1	0	4	4	100
2	BSC	Engineering Chemistry	CH1101N	3	0	0	3	3	100
3	ESC	Introduction to Computing	CS1101N	3	0	0	3	3	100
4	ESC	Basic Electrical Engineering	EE1101N	3	0	0	3	3	100
5	VAC	Well-being and happiness	HU1102N	2	0	0	2	2	50
6	HSC	Professional communication in English	HU1101N	2	1	0	3	3	100
		Theory Sub-total		16	2	0	18	18	550
7	ESC	Workshop	WS1171N	0	0	3	2	3	50
8	ESC	Basic Electrical Engineering Lab	EE1171N	0	0	3	2	3	50
9	ESC	Computer Programming Practices	CS1171N	0	0	3	2	3	50
10		NSS/NCC/PT/Yoga	SA1171N				R*		
-		Practical Sub-total	·	0	0	9	6	9	150
		First Semester Total		16	2	9	24	27	700
red (Non-credit but	with grade)								
Second Semester									
				Class Load/Week		Week			
Sl. No	Type	Course Name	Course code	L	T	P	Credit	Class load/ Week	Marks
1	BSC	Engineering Mathematics – II	MA1201N	3	1	0	4	4	100
2	BSC	Engineering Physics	PH1201N	3	0	0	3	3	100
3	ESC	Signals and Systems (for ETCE)	EE1202N	3	0	0	3	3	100
4	ESC	Introduction to AI and ML	CS1202N	3	0	0	3	3	100
5	VAC	Energy, Environment and Climate Change	CE1201N	2	0	0	2	2	50
6	ESC	Basic Electronics (for Electrical Science)/Basic	ET1201N/	3	0	0	3	3	100
O	ESC	Electronics (for Non-Electrical Science)	ET1202N	3	U	U	3	3	100
		Theory Sub-total		17	1	0	18	18	550
7	ESC	Engineering Graphics	AM1271N	0	0	3	2	3	50
8	BSC	Engineering Physics Lab	PH1271N	0	0	3	2	3	50
9	PC	Introduction to labs of the department	ET1271N	0	0	3	2	3	50
10		NSS/NCC/PT/Yoga	SA1271N				R*		
		Practical Sub-total		0	0	9	6	9	150
		Second Semester Total		17	1	9	24	27	700
ed (Non-credit but	with grade)								
Third Semester									
Sl. No	Туре	Course Name	Course	C	lass Lo	ad	Credit	Class load	Mark
	- J P -			L	L T P		Credit	Ciass ioau	Marks
				- 1					

2	ESC	Electromagnetic Theory (for ETC Engg Dept)/	ET2101N/	3	0	0	3	3	100
		Electromagnetic Theory (other than ETC Engg Dept)	ET2102N		Ť	Ť		3	
3	PC	Electronic Devices	ET2103N	4	0	0	4	4	100
4	PC	Analog and Digital Communications	ET2103N	4	0	0	4	4	100
5	PC	Network Theory	ET2105N	3	1	0	4	4	100
		Theory Sub-total		17	1	0	18	18	500
6	PC	Electronic Devices Lab	ET2171N	0	0	3	2	3	50
7	PC	Analog and Digital Communications Lab	ET2172N	0	0	3	2	3	50
8	PC	Network Theory Lab	ET2173N	0	0	3	2	3	50
9	PC	Modelling and Simulation Lab	ET2174N	0	0	3	2	3	50
		Practical Sub-total		0	0	12	8	12	200
		Third Semester Total		17	1	12	26	30	700
Fourth Semester									
Sl. No	Type	Course Name	Course	Class	Load/	Week	Credit	Class load/ week	Marks
SI. 1NO	Type	Course Name	Code	L	T	P	Credit	Class load/ week	Marks
1	PC	Analog Electronics	ET2201N	4	0	0	4	4	100
2	PC	Digital Electronics	ET2202N	4	0	0	4	4	100
3	PC	Transmission Lines and Antennas	ET2203N	4	0	0	4	4	100
,	PSE	Microelectronics Technology/ Electronic Instrumentation	ET2221N/				_	2	100
4		and Control	ET2222N	3	0	0	3	3	100
5	OE	Fundamentals of Electronic Communication Systems	ET2261N	3	0	0	3	3	100
		Theory Sub-total		18	0	0	18	18	500
6	PC	Analog Electronics Lab	ET2271N	0	0	3	2	3	50
7	PC	Digital Electronics Lab	ET2272N	0	0	3	2	3	50
8	PC	Transmission Lines and Antennas Lab	ET2273N	0	0	3	2	3	50
		Microelectronics Technology Lab/ Electronic	ET2274N/						
9	PSE	Instrumentation and Control lab	ET2275N	0	0	3	2	3	50
		Practical Sub-total		0	0	12	8	12	200
		Fourth Semester Total		18	0	12	26	30	700
Fifth Semester									
						Class Load/Week			
Sl. No	Type	Course Name	Course	Class	Load/	Week	Credit	Class load/ week	Marks
	J.F.		Code	L	L T P				
1	PC	Integrated Circuits and Systems	ET3101N	4	0	0	4	4	100
2	PC	Digital Signal Processing	ET3102N	4	0	0	4	4	100
3	PC	Microprocessors and Microcontrollers	ET3103N	3	0	0	3	3	100
		Microwave and Radar Engineering/ Optoelectronics and	ET3121N/						
4	PSE	Optical Communication	ET3122N	3	0	0	3	3	100
		Mathematical Techniques in Signal Processing and							
5	OE	Communication	ET3161	3	0	0	3	3	100

6					_	_			
	PC	Integrated Circuits and Systems Lab	ET3171N	0	0	3	2	3	50
7	PC	Digital Signal Processing Lab	ET3172N	0	0	3	2	3	50
8	PC	Microprocessors and Microcontrollers Lab	ET3173N	0	0	3	2	3	50
9	PSE	Microwave and Radar Engineering Lab/ Optoelectronics	ET3174N/	0	0	3	2	3	50
		and Optical Communication Lab	ET3175N						
		Practical Sub-total		0	0	12	8	12	200
		Fifth Semester Total		17	0	12	25	29	700
Sixth Semester				601					
Sl. No	Type	Course Name	Course	Class	Load/		Credit	Class load/ week	Marks
54110			Code	L	T	P	010010	Class lond, Week	
1	PC	VLSI and CAD	ET3201N	4	0	0	4	4	100
2	PC	Wireless and Mobile Communications	ET3202N	3	0	0	3	3	100
3	PC	Digital Image Processing and Computer Vision	ET3203N	3	0	0	3	3	100
4	VAC Sociology & Professional Ethics		HU3261N	3	0	0	3	3	100
5	OE	Fundamentals of Sensors and Actuators	ET3261N	3	0	0	3	3	100
		Theory Sub-total		16	0	0	16	16	500
6	PC	VLSI and CAD Lab	ET3271N	0	0	3	2	3	50
7	PC	Wireless and Mobile Communications Lab	ET3272N	0	0	3	2	3	50
8	PC	Digital Image Processing and Computer Vision Lab	ET3273N	0	0	3	2	3	50
		Practical Sub-total		0	0 0 9		6	6 9	
		Sixth Semester Total		16	0	9	22	25	650
Seventh Semester									
				Class	lass Load/Week				
Sl. No	Type	Course Name	<b>Course Code</b>	Ciass	Loau/	week	K   Credit   Class load/ w		Marks
				L	T	P			
	PSE	Computer and Communication Networks/ Computer	ET4101N						
1			ET4121N	2	0	0	2	2	100
1	TSE	Organization and Architecture	E14121N /ET4122N	3	0	0	3	3	100
1	152	Organization and Architecture		3	0	0	3	3	100
2	PSE	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT	/ET4122N	3	0	0	3	3	100
	PSE	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems	/ET4122N ET4123N						
2	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers	/ET4122N ET4123N /ET4124N/	3	0		3	3	
2	PSE	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems	/ET4122N ET4123N /ET4124N/ ET4125N	3 3 3	0	0	3 3	3 3 3	100
2 3 4	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N	3	0	0	3	3	100
2	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N	3 3 3	0 0	0 0 0	3 3	3 3 3	100 100 100
2 3 4	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications Theory Sub-total  Internship	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N	3 3 12	0 0 0 0	0 0 0 0	3 3 3 12 0 2	3 3 3 12	100 100 100 400 0 50
2 3 4	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications  Theory Sub-total	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N ET4161N	3 3 3 12 0 0	0 0 0 0 0	0 0 0 0	3 3 12 0 2	3 3 3 12 0 0	100 100 100 400 0 50 50
2 3 4	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications Theory Sub-total  Internship	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N ET4161N	3 3 3 12 0	0 0 0 0	0 0 0 0	3 3 3 12 0 2	3 3 3 12 0	100 100 100 400 0 50
2 3 4 5 7	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications Theory Sub-total  Internship Practical Sub-total	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N ET4161N	3 3 3 12 0 0	0 0 0 0 0	0 0 0 0 0	3 3 12 0 2	3 3 3 12 0 0	100 100 100 400 0 50 50
2 3 4	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications Theory Sub-total  Internship Practical Sub-total	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N ET4161N	3 3 3 12 0 0	0 0 0 0 0	0 0 0 0 0	3 3 12 0 2	3 3 3 12 0 0	100 100 100 400 0 50 50
2 3 4 5 7	PSE HSC OE	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications Theory Sub-total  Internship Practical Sub-total Seventh Semester Total	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N ET4161N  ET4191N	3 3 3 12 0 0 0	0 0 0 0 0 0	0 0 0 0 0	3 3 3 12 0 2 2 14	3 3 3 12 0 0 0 12	100 100 100 400 0 50 50 450
2 3 4 5 7	PSE HSC	Organization and Architecture  Adaptive Signal Processing/Green Communications/ IoT and Embedded Systems  Finance Economics and Management for Engineers Satellite Communications Theory Sub-total  Internship Practical Sub-total	/ET4122N ET4123N /ET4124N/ ET4125N HU4101N ET4161N	3 3 3 12 0 0 0	0 0 0 0 0	0 0 0 0 0	3 3 3 12 0 2 2 14	3 3 3 12 0 0	100 100 100 400 0 50 50 450

1	OE	Principles of Electromagnetic Interference	ET4261N	3	0	0	3	3	100	
		Theory Sub-total		3	0	0	3	3	100	
2	I/P	One Semester Internship / Project	ET4291N				8		300	1
3	O	Grand viva	ET4292N				2		50	
		Practical Sub-total		0	0	0	10	0	350	
		Eighth Semester Total		3	0	0	13	3	450	_
	1	1	1	1	1	1		· · · · · · · · · · · · · · · · · · ·	1	

For Departments taking Basic Electronics in 1st Sem

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6	IESC	Basic Electronics (for Electrical Science)/Basic Electronics (for Non-Electrical Science)	ET1101N/ ET1102N	3	0	0	3	3	100

