

Scheme of Courses for B Tech ECE

The main features of the scheme are

- (i) At each semester there are 25 credits
- (ii) There are 4 electives designated as Elective I, Elective II, Elective III and Elective IV
- (iii) Each elective has choices of six courses plus one on-line course through SYEM
- (iv) A student has to choose only one course in an elective out of listed six choices or he may opt for online course through SYEM etc

3rd Semester

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
ECT 201	Electronics-I	3	1	0	4	
ECT 202	Network Analysis	3	1	0	4	
ECT 203	Signals and Systems	3	1	0	4	
CST 205	Data Structures	2	1	0	3	
MMT 210	Electronic Engineering Materials	3	1	0	4	
MAT 204	Mathematics III	3	1	0	4	
ECL 204	Electronics I Lab	0	0	2	1	
CSL 206	Data Structure Lab	0	0	2	1	
Total		28			25	

4th Semester

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
ECT 250	Electronics II	3	1	0	4	
ECT 251	Digital Electronics & Logic Design	2	1	0	3	
ECT 252	Communication I	2	1	0	3	
EET 255	Electric Machines	2	1	0	3	
EET 2576	Control Systems	3	1	0	4	
MAT 253	Mathematics IV	3	1	0	4	
ECL 253	Electronics II Lab	0	0	2	1	
ECL 254	Digital Electronics & Logic Design Lab	0	0	2	1	
ECL 255	Communication I Lab	0	0	2	1	
EEL 257	Electric Machines Lab	0	0	2	1	
Total		29			25	


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5th Semester

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
ECT 301	Microprocessor	3	1	0	4	
ECT 302	VLSI Design	3	1	0	4	
ECT 303	Digital Communication	2	1	0	3	
ECT 304	Applied EMF & Waves	3	1	0	4	
ECT 305	Information Theory & coding	2	1	0	3	
MAT 3xx	Mathematics V	3	1	0	4	
ECL 306	Microprocessor Lab	0	0	2	1	
ECL 307	VLSI Design Lab	0	0	2	1	
ECL 308	Digital Communication Lab	0	0	2	1	
Total		28			25	

6th semester

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
ECT 350	Antenna and Wave Propagation	2	1	0	3	
ECT 351	Electronic Devices	3	1	0	4	
ECT 352	Computer Organization & Architecture	3	1	0	4	
ECT 353	Data Comm. & Networking	3	1	0	4	
ECT 354	Power Electronics	3	1	0	4	
ECT XXX	Elective-I	2	1	0	3	
ECL 355	Electronic DA Tools I (Lab)	0	0	2	1	
ECI 356	Industrial Training				1	
EEL 3xx	Power Electronics Lab	0	0	2	1	
Total		28			25	


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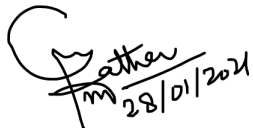
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7th Semester

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>
ECT 401	Embedded Systems	2	1	0	3
ECT 402	Digital Signal Processing	2	1	0	3
ECT 403	Wireless Communication	2	1	0	3
ECT 404	Electronic Measurement & Instrumentation	3	1	0	4
ECT 405	Microwave Engineering	3	1	0	4
ECT 406	Project Pre work & Seminar	0	0	4	2
ECT 4xx	Elective II	2	1	0	3
ECL 407	Embedded & Signal Processing Lab	0	0	2	1
ECL 408	EDA Tools II	0	0	2	1
ECL 409	Microwave Engineering Lab	0	0	2	1
Total		30			25

8^h Semester

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
ECT 450	Project Major	0	0	20	10	
ECT 451	Optical Fiber Comm.	2	1	0	3	
ECT 452	Computer & Network Security	3	1	0	4	
ECT 4XX	Elective-III	2	1	0	3	
HSL 4xx	Industrial Organization & Management	3	1	0	4	
ECT 453	Optical Fiber Comm. Lab.	0	0	2	1	
Total		34			25	


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Elective I (3rd Year 6th semester level)

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
(ECT 356)	Multimedia Information System	2	1	0	3	
(ECT 357)	Advanced Microprocessor	2	1	0	3	
(ECT 358)	VLSI Technology	2	1	0	3	
(ECT 359)	Network Synthesis	2	1	0	3	
(CST 310)	Python Programming*	2	1	0	3	
(MAT 603)	Numerical Analysis & Techniques#	2	1	0	3	
(ECT 360)	Online Course	2	1	0	3	

Elective II (4thYear 7th semester level)

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
(ECT 410)	Radar Systems	2	1	0	3	
(ECT 411)	System Design	2	1	0	3	
(ECT 412)	Analog CMOS Design	2	1	0	3	
EET 3xx)	Advanced Power Electronics	2	1	0	3	
(CST 306)	Design & Analysis of Algorithms*	2	1	0	3	
(MAT xxx)	Neural Networks and Fuzzy logic#	2	1	0	3	
(ECT 413)	Online Course	2	1	0	3	

Elective III (4thYear 8th semester level)

<u>Course Code</u>	<u>Title</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>	<u>Faculty</u>
(ECT 455)	Biomedical & Image Processing	2	1	0	3	
(EET 3xx)	Power System	2	1	0	3	
(CST 354)	Computer Networks	2	1	0	3	
(ECT 461)	R F Design	2	1	0	3	
(ECT 462)	Smart Grid Communications	2	1	0	3	
(MAT 802)	Optimization Techniques	2	1	0	3	
(ECT 457)	Online Course	2	1	0	3	


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Note: For subjects under Elective head the missing course number have to be provided by the respective departments.