

B.Tech. 3rd Year V Semester ECE Scheme

S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1	KEC-501	Integrated Circuits	3	1	0	30	20	50		100		150	4
2	KEC-502	Microprocessor & Microcontroller	3	1	0	30	20	50		100		150	4
3	KEC-503	EMFT & Wave Propagation	3	1	0	30	20	50		100		150	4
4	KEC-051 – 054	Department Elective -I	3	0	0	30	20	50		100		150	3
5	KEC-055 - 058	Department Elective -II	3	0	0	30	20	50		100		150	3
6	KEC-551	Integrated Circuits Lab	0	0	2				25		25	50	1
7	KEC-552	Microprocessor & Microcontroller Lab	0	0	2				25		25	50	1
8	KEC 553A-553D	Lab for Department Elective-II*	0	0	2				25		25	50	1
9	KEC-554	Mini Project or Internship Assessment**	0	0	2				50			50	1
10		Constitution of India / Essence of Indian Traditional Knowledge	2	0	0	15	10	25		50			NC
11		MOOCs (Essential for Hons. Degree)											
		Total										950	22

**The Mini Project or internship (4 weeks) conducted during summer break after IV semester and will be assessed during V semester.

Department Elective-I

KEC-051	Electronic Switching
KEC-052	Industrial Electronics
KEC-053	VLSI Technology
KEC-054	Real Time Systems

Department Elective-II

KEC-055	Digital Signal Processing
KEC-056	Advance Semiconductor Devices
KEC-057	Electronic Instrumentation & Measurements
KEC-058	Optical Communication

*Lab for Department Elective -II

KEC-553A	Digital Signal Processing Lab
KEC-553B	Advance Semiconductor Devices Lab
KEC-553C	Electronic Instrumentation & Measurements Lab
KEC-553D	Optical Communication Lab

*Students will opt one subject from the list of Department Elective-II with its corresponding lab. i.e. if someone has opted Digital Signal Processing (KEC-055) from Department Elective-II then it will be mandatory to opt the DSP Lab (KEC-553A).

B.Tech. 3rd Year VI Semester ECE Syllabus

S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1	KEC-601	Digital Communication	3	0	0	30	20	50		100		150	4
2	KIC-602	Control System-I	3	0	0	30	20	50		100		150	4
3	KEC-603	Satellite Communication	3	0	0	30	20	50		100		150	4
4	KEC-061 – 064	Department Elective –III	3	0	0	30	20	50		100		150	3
5		Open Elective-I	3	0	0	30	20	50		100		150	3
6	KEC-651	Digital Communication Lab	0	0	2				25		25	50	1
7	KIC-652	Control System-I Lab	0	0	2				25		25	50	1
8	KEC-653	PCB Design & Fabrication Lab	0	0	2				25		25	50	1
9		Essence of Indian Traditional Knowledge/ Constitution of India	2	0	0	15	10	25		50			NC
10		MOOCs (Essential for Hons. Degree)											
		Total										900	21

Department Elective-III

KEC-061	Microcontroller for embedded System
KEC-062	Analog Signal Processing
KEC-063	Data Communication Networks
KEC-064	Random Variable Stochastic Process

Open Elective-I

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|----------------------------|---|
| 1. Artificial Intelligence | https://swayam.gov.in/nd2_cec20_cs10/preview |
| 2. Embedded System Design | https://swayam.gov.in/nd1_noc20_cs14/preview |