INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
M. Tech. Curriculum: Microelectronics and VLSI
From the Academic Year 2021-22

Semester-I

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	EE542L	Physics and Modelling of Semiconductor Devices	3-1-0-4	EE5039	16
2.	EE547L	VLSI Fabrication Principles	3-0-0-3	EE5036	16
3.	EE535L	Digital VLSI Design	3-0-0-3	EE5109	16
4.	EE534P	Device Simulation Laboratory	0-0-3-2	EE5195	16
5.		Mathematics Elective	2-0-0-2	MAE1	
6.		Department Elective-1	3-0-0-3	DPE1	
Total Credits				**17**	

Semester-II

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	EE530L	Analog VLSI Design	3-0-0-3	EE5041	16
2.	EE540L	MOS Device Modeling and Characterization	3-0-0-3	EE5023	16
3.	EE536P	FPGA Laboratory	0-0-3-2	EE5296	16
4.	EE533P	Device Fabrication and Characterization Laboratory	0-0-3-2	EE5298	16
5.		Department Elective-2	3-0-0-3	DPE2	
6.		Department Elective-3	3-0-0-3	DPE3	
7.		Free Elective-1	3-0-0-3	FRE1	
Total Credits				**19**	

Semester-III

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	EE693G	Seminar	- - - 1	EE6110	4
2.	EE691G	Project Phase-I	- - - 10	EE6150	4
Total Credits				**11**	

Semester-IV

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	EE692G	Project Phase-II	- - - 15	EE6250	4
Total Credits				**15**	

Total Credits - 62