

Course Curriculum and Syllabus for M.Tech Program in VLSI and Nanoelectronics

Semester I:

<u>Code</u>	<u>Course Name</u>	<u>L-T-P</u>	<u>Credits</u>
EE 511	Nano-devices: Physics and Modelling	3-0-0	6
EE 513	Nanoelectronics Fabrication Technology	2-0-4	8
EE 514	Digital IC design	3-0-0	6
EE 518	Digital IC design Lab	0-0-4	4
EE 6/7XX	Elective 1	3-0-0	6
	Total credits	11-0-8	30

Semester II:

<u>Code</u>	<u>Course Name</u>	<u>L-T-P</u>	<u>Credits</u>
EE 512	Analog IC design	3-0-0	6
EE 515	Foundation of VLSI architectures	3-0-0	6
EE 516	System hardware design	2-0-4	8
EE 517	Analog VLSI Lab	0-0-4	4
EE 6/7XX	Elective 2	3-0-0	6
	Total credits	11-0-8	30

Semester III:

<u>Code</u>	<u>Course Name</u>	<u>L-T-P</u>	<u>Credits</u>
EE 698	Project Phase-I	0-0-24	24
	Total credits	0-0-24	24

Semester IV:

<u>Code</u>	<u>Course Name</u>	<u>L-T-P</u>	<u>Credits</u>
EE 699	Project Phase-II	0-0-24	24
	Total credits	0-0-24	24