

## 2014 Admission

### MTech (Electronics) with specialization in VLSI and Embedded Systems

#### First semester

Course code	Name of course	Core / Elective	Credits	Hours per week		Total marks
				L / T	P / S	
ELV3101	Advanced digital system design	Core	3	3	0	100
ELV3102	VLSI technology and design	Core	3	3	0	100
ELV3103	Designing with microcontrollers	Core	3	3	0	100
	Elective 1	Elective	3	3	0	100
	Elective 2	Elective	3	3	0	100
ELV3108	Reconfigurable computing lab	Core	1	0	3	100
ELV3109	Embedded OS and RTOS lab	Core	1	0	3	100
ELV3110	Signal processing lab	Core	1	0	3	100
	Total for semester 1		18	15	9	800

#### Second semester

Course code	Name of course	Core / Elective	Credits	Hours per week		Total marks
				L / T	P / S	
ELV3201	Analog integrated circuit design	Core	3	3	0	100
ELV3202	Advanced DSP concepts and architectures	Core	3	3	0	100
ELV3203	Embedded system design	Core	3	3	0	100
	Elective 3	Elective	3	3	0	100
	Elective 4	Elective	3	3	0	100
ELV3208	Physical design lab	Core	1	0	3	100
ELV3209	Advanced microcontroller lab	Core	1	0	3	100
ELV3210	Seminar	Core	1	0	3	50
	Total for semester 2		18	15	9	750

### Third semester

Course code	Name of course	Core / Elective	Credits	Hours per week		Total marks
				L / T	P / S	
ELV3301	Project evaluation and viva voce	Core	18	0	30	300
	Total for semester 3		18	0	30	300

### Fourth semester

Course code	Name of course	Core / Elective	Credits	Hours per week		Total marks
				L / T	P / S	
ELV3401	Project evaluation and viva voce	Core	18	0	30	300
	Total for semester 4		18	0	30	300

### List of electives\*

Course code	Name of course
ELV3104	VLSI design automation
ELV3105	Embedded and real time systems
ELV3106	System on chip design
ELV3107	Computer communication networks
ELV3204	Low power digital design
ELV3205	High speed digital design
ELV3206	CPLD and FPGA architecture and applications
ELV3207	Embedded LINUX systems

\*Due to resource limitations all electives may not be offered.

L / T - Lecture / Tutorial

P / S - Practical / Seminar