

## COURSE STRUCTURE

First Year M.Tech(E&TC) ( VLSI and Embedded Systems)- AUTUMN SEMESTER															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
M24ET101	CMOS Digital Design	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
M24ET102	Advanced Power Electronics	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
M24ET103	Embedded System Design and RTOS	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
M24ET104	Elective I	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
M24ET105	Program Core Lab I	PCC	-	4	-	-	-	25	-	25	50	-	2	-	2
M24ET106	Research Methodology Lab I	PEC	-	4	-	-	-	25	-	25	50	-	2	-	2
<b>Total</b>			12	8	4	250	150	50	-	50	500	12	4	4	20

### M24ET104 Elective-I Domain

A	VLSI Physical Design
B	Embedded System Design

#### Abbreviations:

L- lecture	P- Practical	CIE-Continuous Internal Evaluation
ETE- End Term Examination	TW- Term work	PR- Practical
L : 1 Hr.= 1 credit	P: 2 Hr. = 1 Credit	OL: Online lecture
		OR- Oral
		ODL: Open Distance Learning

<b>First Year M.Tech(E&amp;TC) ( VLSI and Embedded Systems) - SPRING SEMESTER</b>															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
M24ET201	Testing and Verification of VLSI Design	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
M24ET202	Embedded System in IOT	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
M24ET203	Embedded Systems in Automation and Machine Learning	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
M24ET204	Elective II	PEC		-	4	100	-	-	-	-	100	-	-	4	4
M24ET205	Program Core Lab II	PCC	-	4	-	-	-	25	-	25	50	-	2	-	2
M24ET206	Research Methodology Lab II	PEC	-	4	-	-	-	25	-	25	50	-	2	-	2
<b>Total</b>			12	8	4	250	150	50	-	50	500	12	4	4	20

<b>M24ET204 Elective-II Domain</b>	
A	IC Design
B	Industrial Automation

**Abbreviations:**

L- lecture	P- Practical	CIE-Continuous Internal Evaluation	
ETE- End Term Examination	TW- Term work	PR- Practical	OR- Oral
L : 1 Hr.= 1 credit	P: 2 Hr. = 1 Credit	OL: Online lecture	ODL: Open Distance Learning