

SR UNIVERSITY
Department of Electronics and Communication Engineering
R25 Course Structure-M.Tech ECE (Very Large Scale Integration [VLSI])

I SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25ECE302PC501	Embedded System Design	3	0	2	4
2	25ECE302PC502	Digital System Design	3	0	2	4
3	25VLD302PC503	Low Power VLSI	3	0	2	4
4	25CAI206CR501	AI Assisted Problem Solving Using Python	2	0	6	5
5	25BUS400RM501	Sustainability, Critical Thinking, Research Methodology and IPR	4	0	0	4
6	25HUM302CR502	Life Skills: Entrepreneurship, Language, Communication and Personality	3	0	2	4
Total			18	0	14	25
II SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25ECE402PC504	Analog IC Design	4	0	2	5
2	25ECE402PC505	CMOS VLSI Design	4	0	2	5
3	25VLD302PC506	CAD for VLSI Design	3	0	2	4
4	25VLD302PC507	Mixed Signal IC Design	3	0	2	4
5	25VLD300PC508	Memory Design and Testing	3	0	0	3
6	25HUM204CR503	Aptitude and Reasoning	2	0	4	4
Total			19	0	12	25
III SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25VLD012PR601	Capstone Project	0	0	12	6
2		Program Elective- I	3	0	0	3
3		Program Elective- II	3	0	0	3
4		Open Elective	3	0	0	3
		OR				
	25VLD030PR602	Industrial Project/R&D Project/Industry Internship/Start-up/Externship	0	0	0	15
Total			9	0	12	15
IV SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25VLD030PR603	Major Project/Industrial Project/R&D Project/Industry Internship/Start-up/Externship	0	0	30	15
Total						
Total Credits						80

Program Electives						
S.No.	Course Code	Program Electives I to II	Hours / Week			
			L	T	P/D	C
1	25ECE300PE601	System on Chip Architecture	3	0	0	3
2	25ECE300PE602	Micro and Nano Electro Mechanical Systems	3	0	0	3
3	25ECE300PE603	Advanced Digital Signal and Image Processing	3	0	0	3
4	25ECE300PE604	Advanced Microcomputer Systems and Interfacing	3	0	0	3
Open Electives						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25PEL300OE601	Energy Systems and Management	3	0	0	3
2	25PEL300OE602	Renewable Energy Technologies	3	0	0	3
3	25CAI300OE603	Cyber Laws	3	0	0	3
4	25CAI300OE604	Block Chain Technology	3	0	0	3
5	25AMS300OE605	Operations Research	3	0	0	3
6	25AMS300OE606	3D Printing	3	0	0	3
7	25ECE300OE607	Internet of Things and IIoT	3	0	0	3
8	25ECE300OE608	Computer vision	3	0	0	3
9	25CTM300OE609	Disaster Management	3	0	0	3
10	25CTM300OE610	Smart Cities	3	0	0	3