

SR UNIVERSITY
Department of Mechanical Engineering

R25 Course Structure-M.Tech ME (Advanced Manufacturing Systems [AMS])

I SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25AMS302PC501	Additive Manufacturing Processes	3	0	2	4
2	25AMS302PC502	Computer Aided Design Modeling	3	0	2	4
3	25AMS302PC503	Materials and Energy Sources for Additive	3	0	2	4
4	25CAI206CR501	AI Assisted Problem Solving Using Python	2	0	6	5
5	25BUS400RM501	Sustainability, Critical Thinking, Research Methodology and	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	25AMS402PC504	Design for Additive Manufacturing	4	0	2	5
2	25AMS402PC505	Material Characterization	4	0	2	5
3	25AMS202PC506	Automation & Robotics	2	0	2	3
4	25AMS302PC507	Mechanics of Composite Materials	3	0	2	4
5	25AMS302PC508	Computer Integrated Manufacturing	3	0	2	4
6	25HUM204CR503	Aptitude and Reasoning	2	0	4	4
Total			18	0	14	25
III SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25AMS012PR601	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				
	25AMS030PR602	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	25AMS030PR603	Major Project/Industrial Project/R&D Project/Industry Internship/Start-up/Externship	0	0	30	15
Total						15
Total Credits						80
Program Electives						
S.No.	Course Code	Program Electives I to II	Hours / Week			
			L	T	P/D	C
1	25AMS300PE601	Sustainable Manufacturing	3	0	0	3
2	25AMS300PE602	Big Data Analytics for Manufacturing	3	0	0	3
3	25AMS300PE603	Engineering Smart Materials	3	0	0	3
4	25AMS300PE604	Finite Element Analysis	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