Master of Technology in Smart Manufacturing
School of Mechanical Engineering

Programme Credit Structure	Credits
University Core Courses	41
Professional Core Courses	24
Professional Elective Courses	12
Open Elective Courses	03
Total Graded Credit Requirement	80

University Core Courses — **41**

		L	T	P	C
MAENG501	Technical Report Writing	1	0	4	3
MASTS501	Competitive Coding I	3	0	0	3
MASTS502	Competitive Coding II	3	0	0	3
MASET697	Project Work	0	0	0	10
MASMM698	Internship I/ Dissertation I	0	0	0	10
MASMM699	Internship II/ Dissertation II	0	0	0	12

Professional Core Courses — **24**

		L	T	P	C
MASMM501	Digital Manufacturing	3	0	2	4
MASMM502	Industrial Internet of Things and Cloud Computing	3	0	2	4
MASMM503	Manufacturing Control and Automation	3	0	2	4
MASMM504	Systems Simulation and Modeling	3	0	2	4
MASMM505	Applied Artificial Intelligence for Manufacturing	3	1	0	4
MASMM506	Design for Additive Manufacturing	3	0	2	4

Professional Elective Courses — **12**

		L	T	P	C
MASMM601	Digital Supply Chain for Manufacturing	3	1	0	4
MASMM602	Cybersecurity in Manufacturing	3	1	0	4
MASMM603	Digital Twin for Smart Manufacturing	3	1	0	4
MASMM604	Big Data Analytics in Manufacturing	3	1	0	4
MASMM605	Advanced Materials Processing and Characterization	3	0	2	4
MASMM606	Applied Robotics	2	1	2	4
MASMM607	Sustainability and Circularity in Manufacturing	3	0	0	3
MASMM608	Precision Engineering	3	0	0	3

Open Elective Courses — **03**

Engineering | Sciences | Humanities | Social Sciences | Liberal Arts | Economics | Finance | Management