



SCHEME

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, Bhopal-46200

**CENTER OF EXCELLENCE IN PRODUCT DESIGN AND SMART
MANUFACTURING**

M.tech With Specialization in: Smart Manufacturing

SCHEME OF STUDY (2021-22)

First Semester

Course No.	Subjects	Scheme of studies period per week			Total Credits
		L	T	P	
SM 511	Robotics and Automation	3	-	-	3
SM 512	Computer Aided Design in Smart Manufacturing	3	-	-	3
SM 513	Finite Element Methods	3	-	-	3
SM 514	Micro-electro Mechanical System	3	-	-	3
	Elective 1(A)	3	-	-	3
	Elective 2 (B)	3	-	-	3
SM 515	Smart Manufacturing System Lab	-	-	2	1
SM 516	Seminar-1	-	-	2	1
HUM 511	Communications Skill NPTEL/MOOC/Hum Dept.	2	-	-	2
Total Hours: 24 Total Credits: 22		Total Semester Credits			22

Second Semester

Course No.	Subjects	Scheme of studies period per week			Total Credits
		L	T	P	
SM 521	Additive Manufacturing	3	-	-	3
SM 522	Micro Manufacturing	3	-	-	3
SM 523	Soft Computing Methods	3	-	-	3
	Elective 3 (A)	3	-	-	3
	Elective 4 (A)	3	-	-	3
	Elective 5 (C)	3	-	-	3
SM 525	Modeling and Simulation Lab	-	-	2	1
SM 524	Research Methodology, Technical Report and Paper Writing	-	2	-	2
SM 526	Seminar-2	-	-	2	1
Total Hours: 24 Total Credits: 44		Total Semester Credits			22

Third Semester

Course No.	Subjects	Scheme of studies period per week			Total Credits
		L	T	P	
SM 611	Project Phase-I	-	-	24	12
Total Hours: 24 Total Credits: 56		Total Semester Credits			12

Fourth Semester

Course No.	Subjects	Scheme of studies period per week			Total Credits
		L	T	P	
SM 621	Project Phase-II	-	-	24	12
Total Hours: 24 Total Credits: 68		Total Semester Credits			12