

## M.Tech.Programme in Welding & Fabrication

### Semester-I

S.No.	Sub. Code	Subject Name	L	T	P	Hrs	credits
1	MET 811	Design of Experiments	3	1	0	4	4
2	MET 816	Conventional Welding Processes	3	1	0	4	4
3	MEP 816	Conventional Welding Processes Lab	0	0	2	2	1
4	MET 817	Inspection and Testing of welds	3	1	0	4	4
5	MEP 817	Inspection and Testing of welds Lab	0	0	2	2	1
6	MET 818	Physical Metallurgy	3	1	0	4	4
7	MET815	Elective-I	3	1	0	4	4
		Total	15	5	4	24	22

### Semester-II (A)

S.No.	Sub. Code	Subject Name	L	T	P	Hrs	credits
1	MET 827	Repair, Reclamation and Surfacing	3	1	0	4	4
2	MET 828	Welding Metallurgy	3	1	0	4	4
3	MEP 828	Welding Metallurgy Lab	0	0	2	2	1
4	MET 829	Advanced Welding Processes	3	1	0	4	4
5	MET 830	Welding codes and standards	3	1	0	4	4
6	MET 825	Elective-II	3	1	0	4	4
7	MEP 826	Seminar/Minor Project	0	0	2	2	1
		Total	15	5	4	24	22

### Semester-II (B)

S.No.	Sub. Code	Subject Name	L	T	P	Hrs	credits
	TP 801	Four week training in reputed Industry/Laboratory in Institutions of repute such as IITs, NITs, CSIR, DRDO, CSIO etc.					S/US

### Semester-III

S.No.	Sub. Code	Subject Name	L	T	P	Hrs	credits
1	MET-913	Design of welded structures	3	1	0	4	4
2	MET-912	Elective-III	3	1	0	4	4
3	MEP-915	Dissertation (Part-I)	0	0	16	16	8
		Total	6	2	16	24	16

### Semester-IV

S.No.	Sub. Code	Subject Name	L	T	P	Hrs	credits
1	MEP-925	Dissertation (Part-II)	0	0	24	24	12
		Total	0	0	24	24	12

Total Credits : 72

<b>Elective-I</b>							
S. No.	Sub code	Subject Title	L	T	P	Hrs	Credits
1.	MET 815A	Finite Element Methods	3	1	0	4	4
3.	MET 815 E	Physics of welding	3	1	0	4	4
4.	MET 815 F	Safety in Welding	3	1	0	4	4
5.	MET 815 G	Computer aided Engineering	3	1	0	4	4

<b>Elective-II</b>							
S. No.	Sub Code	Subject Title	L	T	P	Hrs	Credits
1	MET 825 A	Fabrication & Processing of Composites & Ceramics	3	1	0	4	4
2	MET 825 F	Welding cost and economics	3	1	0	4	4
3	MET 825 G	Welding application technology	3	1	0	4	4

<b>Elective-III</b>							
S. No.	Sub Code	Subject Title	L	T	P	Hrs	Credits
1	MET 912 A	Welding Automation	3	1	0	4	4
2	MET 912 B	Product Design & Development	3	1	0	4	4
3	MET 912 C	Manufacturing System Analysis	3	1	0	4	4
4	MET 912 D	Robotics	3	1	0	4	4