

**Course: Advances in welding and joining technologies**

**Course Code:** noc21-me78

**Session:** 2020-21

**Duration:** 8 Weeks

**Assessment procedures:** Weekly Assignment (25%) + proctored certification Exam (75%)

**Curriculum of the Course:**

**Week 1-2 :** Fundamentals of welding and joining (04 lectures)

Assignments for Week 1 – MCQ and Fill blanks

**Week 2-3:** Laser and electron beam welding (02 lectures)

Assignments for Week 2 – MCQ and Fill blanks

**Week 3-4:** Solid state welding processes (03 lectures)

Assignments for Week 3 – MCQ and Fill blanks

**Week 4-5:** Computational welding mechanics (02 lectures)

Assignments for Week 4 – MCQ and Fill blanks

**Week 5-6:** Micro-joining and nano-joining (03 lectures)

Assignments for Week 5 – MCQ and Fill blanks

**Week 6-7:** Welding metallurgy (02 lectures)

Assignments for Week 6 – MCQ and Fill blanks

**Week 7-8:** Welding and joining of non-metals (02 lectures)

Assignments for Week 7 – MCQ and Fill blanks

**Week 7-8:** Metal transfer in welding and metal printing (02 lectures)

**List of students enrolled**

S. No	Name Of Student
1	Ayush Singh Rathore
2	Brij Mohan Sharma
3	Devendra Sharma
4	Dharma Ram Jat
5	Vishnu Jangid