

# **Course: Principles of Casting Technology**

**Course Code:** noc21-me23

**Session:** 2020-21

**Duration:** 8 Weeks

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

## **Curriculum of the Course:**

Week 1: Introduction to Casting technology, Solidification analysis for metals and alloys

Week 2: Technology of patternmaking, study of molding sands and their testing methods

Week 3: Technology of mould making and core making, special sand moulding processes

Week 4: Principles of gating design for castings

Week 5: Principles of risering design for castings

Week 6: Special casting methods, Melting furnaces

Week 7: Melting and pouring practices for production of Cast Iron family, steel and non-ferrous metals and alloys

Week 8: Fettling and Heat treatment of castings, Casting defect and its diagnostic methods

## **List of students enrolled**

<b>S.No.</b>	<b>Name of student</b>
1	Shekhar Sharma
2	Akshit Kumar Sain
3	Amit Pareek
4	Himanshu Gothwal
5	Aman Sharma
6	Priyanka soni
7	Yogendra Singh
8	Akshay Verma