

Course: Principles of Metal Forming Technology

Course Code: noc20-me72

Session: 2020-21

Duration: 8 Weeks

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

Curriculum of the Course:

Week 01: Introduction and classification of metalworking processes, Behaviour of materials

Week 02: Concept of stress and strain, Hydrostatic and deviatoric stresses

Week 03: Flow curve Yield criteria for ductile materials, plastic stress strain relationships

Week 04: Yielding and ductility during instability, Effect of strain rate and temperature on flow properties

Week 05: mechanics of metalworking, Analysis methods, Hot and cold working

Week 06: Introduction, classification and analysis of forging and rolling operations

Week 07: Defects in rolled and forged components, Analysis of extrusion process

Week 08: Classification and analysis of wire and tube drawing and sheet metal working, Powder metallurgy forming

List of students enrolled

S. No.	Name of Student
1	Aman Sharma
2	Asit Jain
3	Chirag Patni
4	Jancy C Joshwa
5	Karan Chawda
6	Naitik Popli
7	Sarthak Agarwal
8	Kishlay Thakur