Course: Advanced Machining Processes

Course Code: noc20-me76

Session: 2019-20

Duration: 8 Weeks

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

Curriculum of the Course:

Week 1:

- Introduction to advanced machining processes
- their classification
- Ultrasonic machining
- its modelling and analysis

Week 2:

- Abrasive jet machining (AJM)
- Water jet cutting (WJC)
- Abrasive water jet machining (AWJM)
- Magnetic abrasive finishing (MAF)
- its modelling

Week 3 :

- Abrasive flow finishing (AFF)
- its modelling
- Magnetorheological finishing (MRF)

Week 4 :

- Magnetorheological abrasive flow finishing (MRAFF)
- its modelling
- analysis

Week 5 :

- Electric discharge machining (EDM):Principle
- applications, process parameters
- modelling.
- Electric Discharge Grinding (EDG)
- Electric Discharge Diamond Grinding (EDDG)
- Wire Electric Discharge Machining (W EDM)

Week 6 :

- Laser beam machining (LBM)
- Plasma arc machining (PAM)
- Electron Beam Machining (EBM)

Week 7 :

- Electro chemical machining (ECM):Principle
- Applications
- process parameters
- modelling

Week 8 :

- Electrochemical Grinding (ECG)
- Electrostream Drilling (ESD)
- Shaped Tube Electrolytic Machining (STEM)
- Chemical machining (ChM)

List of students enrolled

S. No	Name of Student
1	Abhishek Saini
2	Abhishek Gupta
3	Aman Sharma
4	Anshul Sharma
5	Kshitiz Anurag
6	arnav pareek
7	asit jain
8	AVINASH SINGH
9	Ayush Khandelwal
10	Nikhil Bhatia
11	chitesh garg
12	Darshan Jain
13	Dileep Menaria
14	gunjan khandelwal
15	ADITYA Z GUPTA
16	Himanshu Gothwal
17	Hritik Gaur
18	Jatin Dhyawana
19	Karan Chawda

20	Naveen Pareek
21	Harsh sharma
22	Prakhar Bhardwaj
23	Priyambada Singh Shekhawat
24	Priyansh indoria
25	Puneet Kumawat
26	Rajat Saini
27	Rajkumar gangwar
28	Rajat Sharma
29	Rhythm purohit
30	Rishabh Shrivastava
31	Roshan nama
32	saksham jain
33	Samardeep Singh Chopra
34	Sarthak Agarwal
35	Shubham Soni
36	Somin Seth
37	Tushar sharma
38	hitesh mishra
39	Vaibhav Bhardwaj
40	Akshay Verma