

6th Semester

Summer - 2024

Discipline	Semester	Name of the teaching Faculty
Mechanical	6th	Byomakesh Mishra
Subject	No of days	Semester from 16/01/24 to 26/04/2024
Advance	per Week	
Manufacturing Processes	(14)	No. of weeks - (15)
Week	Days	

	Tue	Introduction to AMP.
1st	Wed	Comparison between traditional and non-traditional machining.
	Fri	ECM Working Principle,
	Sat	Advantages, Disadvantages, Applications
	Tue	EDM Working Principle, Process parameters
		Tool materials, Dielectric fluid
	wed	Advantages, disadvantages & Applications
2nd	Fri	EBM - Working principle, Process parameters
	Sat	Advantages, disadvantages & Applications
	Tue	LBM, Working Principle, Process parameters
	wed	Advantages, disadvantages & Applications
3rd	Fri	PAM - Working principle process parameters.
	Sat	Advantages, Disadvantages; applications

4th

Tue USM. Equipment description  
 Working principle.

wed Advantages, Disadvantages

Fri Applications of USM -

Sat ATM - equipment description,

Tue Working principle, Variables.  
 Process parameters.

wed X

5th

Fri Advantages, disadvantages.

Applications, MRR.

Sat performance

Tue Introduction to plastic processing

Different uses

wed ~~Fri~~ Thermoplastics & Thermosetting plastics

6th

Fri Injection moulding

Sat Compression moulding

Tue Transfer moulding

wed Extruding processes, Casting & Calendering

7th

Fri Sheet forming, Blow moulding, Laminating  
 etc.

Sat Reinforcing and applications.

Tue X

Wed Introduction to AMP

8th

Fri X

Sat Need for AMP

Tue Additive manufacturing processes

9th

Wed Advantages & Limitations of AMP

Fri Classification of AMP

Sat Difference between AM & CNE

Tue Applications

Wed Web based Rapid Prototyping System

10th

Fri Concept of FMS, Concurrent Engg.

Sat Capstan and Turret Lathes

Tue X

Wed Rapid Prototyping processes.

11th

Fri X

Sat Introduction to SPM

's Signature... *BSH*

Tue Concept of SPM,  
General elements of SPM

Wed cont. - .

12th

Fri Productivity improvement by SPM

Sat Principles of SPM design

Tue cont. - .

13th

Wed Maintenance of machine tools.

Fri Types of maintenance.

Sat Repair cycle analysis.

Tue Maintenance manual, records.

14th

Wed Maintenance of Housekeeping.

Fri Introduction to TPM

Sat cont. - .

Tue cont. - .

Wed

15th

Fri

Sat X