

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER

Session-2022-2023

Discipline: Mechanical Engg

Semester: 6th

Subject: Adv. Manufacturing Process

Name of the Teaching Faculty: Mr. Naba Kishor Dang

Subject: AMP No. of Days/per week class allotted: 04

Semester From Date: 14/2/23 To Date: 23/5/23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (In brief)	Signature of Teacher
16/2/23	Introduction Machining	Introduction	Example	<u>MKD</u>
17/2/23	Conventional Machining	Traditional M/cing	Direct touch (or) Contact of tool	<u>MKD</u>
20/2/23	Non- Conventional Machining	Non-Traditional M/cing	Non-Contact of tool	<u>MKD</u>
21/2/23	Machining process	Impact Erosion	Machining Tool type	<u>MKD</u>
24/2/23	AJM	Abrasive Jet	Compressed Air Al. oxide	<u>MKD</u>
25/2/23	Adv and Dis adv of AJM	✓	Impact Erosion	<u>MKD</u>
27/2/23	EDM	Electric Discharge M/cing	Capacitor Discharge	<u>MKD</u>
28/2/23	USM	Ultrasonic concentrator	Hz. Vibration	<u>MKD</u>
2/2/23	Wire EDM	EDM (Wire)	Electrode wire	<u>MKD</u>
2/3/23	ECM	Electro chemical Machining	Faraday's Law of Electrolysis	<u>MKD</u>

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4/3/23	LASER	L.M.P	Light amplification --- Radiation	MKD
6/3/23	PLASMA ARC M/cing	PLASMA ARC	Arcing	MKD
9/3/23	Electron beam m/cing	EBM	Light Vs parameters	MKD
10/3/23	Parameters (EBM)	✓	Graph	MKD
11/3/23	Plastic Processing	Plastic moulding	Hot Barrell	MKD
13/3/23	Moulding of plastic		Principle	MKD
14/3/23	Injection Moulding	~	Diagram and functions	MKD
16/3/23	Compression moulding	Covered	Compressive force Diagram	MKD
18/3/23	Transfer moulding	T M	Diagram	MKD
21/3/23	Calendering	Calendering	Benefits	MKD

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23/3/23	Sheet forming	Sheet forming	Principle and diagram	<u>NKD</u>
25/3/23	Lamination	Lamination	Example and sketch	<u>NKD</u>
27/3/23	Rain forcing	Rain forcing	Example and sketch	<u>NKD</u>
28/3/23	class Test	class Test	10 question	<u>NKD</u>
31/3/23	Discussion	Discussion	Covered Topic	<u>NKD</u>
3/4/23	Additive Manufacturing	✓	Explain	<u>NKD</u>
4/4/23	Introduction	General idea and Examples	Roles	<u>NKD</u>
6/4/23	General idea about Academic manufacturing	✓	Discussion and Examples	<u>NKD</u>
8/4/23	Manufacturing system	Manufacturing system	Basic Components	<u>NKD</u>
10/4/23	Adv. and Disadv.	Adv. and Disadv.	Manufacturing process	<u>NKD</u>

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11/4/23	CNC	Computer Numerically Controlled	Comparison	<u>NKD</u>
13/4/23	Aero Space Industry	✓	Examples. Uses.	<u>NKD</u>
15/4/23	Automotive Industry	Automotive	Benefits Examples.	<u>NKD</u>
17/4/23	Jewellery Industry	Jewellery Industry	used Examples	<u>NKD</u>
18/4/23	Rapid prototypes	R.P	Benefits. ✓	<u>NKD</u>
20/4/23	Bio-Medical Pro-Engineering	✓	used	<u>NKD</u>
21/4/23	R.P (Web)	Rapid Prototypes	Uses. Applications	<u>NKD</u>
24/4/23	FMS	Flexible Manufacturing Sys	Benefits	<u>NKD</u>
25/4/23	Turret Lathe	Hexagonal Turret	Comparison	<u>NKD</u>
28/4/23	Capstan Lathe	Turret Head	Comp-centre Lathe	<u>NKD</u>

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29/4/23	Difference	Difference	Comparison	<u>MKD</u>
2/5/23	Special Purpose M/c	Special Purpose M/c	General ideas	<u>MKD</u>
4/5/23	Production and Improvement	production improvement	Benefits.	<u>MKD</u>
6/5/23	SPM Design	SPM -	Benefits.	<u>MKD</u>
8/5/23	Concept of SPM	Concepts.	Benefits	<u>MKD</u>
9/5/23	Maintenance of tools	Maintenance of tools	Helpful. Long Run.	<u>MKD</u>
11/5/23	Repair of tools	Repair of Tools	Advantages	<u>MKD</u>
12/5/23	Maintenance Record	Records	To know the schedule maintenance.	<u>MKD</u>
20/5/23	Maintenance chart	chart	Necessary to know	<u>MKD</u>
22/5/23	Maintenance manuals.	Manuals	Uses Applications	<u>MKD</u>