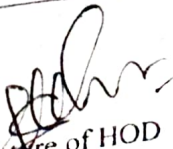
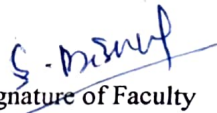


Lesson Plan

Subject Advance Manufacturing Process (Code) TH-406 Name of faculty Er. Sangram Biswal
 Semester 6th Semester Class allotted 4 (max) Branch Mechanical Engg.
 Session: 2022-23 (S)

Discipline Subject:	Semester No. of days/per week	From Date:	To date:	Teaching Aid
		Theory /Practical-topics / Lesson		
Week	Date/Period			
1	14/02/23	Modern Machining Process. Introduction, Comparison with traditional machining.		White Board & Markers
	to 17/02/23	Ultrasonic Machining, Principle, Description of equipment.		
2	20/02/23	Application, Electro discharge Machining principle.		11
	to 25/02/23	Description of equipment, Dielectric fluid Tools (electrodes) process Parameters.		
3	27/02/23	Output characteristics & application-wise cut EDM, Principle, Description of equipment, controlling Parameters.		11
	to 04/03/23	applications.		
4	06/03/23	Abrasive jet machining: principle, description of equipment, material removal rate, Applications.		11
	to 11/03/23	Leafy beam Machining, Principle, description of equipment, material removal rate & application.		
5	13/03/23	Electro chemical Machining. Principle, description of equipment, material removal rate & application.		11
	to 18/03/23	Plasma Arc Machining. Principle, description of equipment, material removal rate, & Application.		
6	20/03/23	Performance of characterized. Process parameter Electro beam Machining. Principle description of equipment, material removal rate, process parameter, Performance characteristics & Application.		11
	to 25/03/23			
7	27/03/23	Plastic Processing, moulding process, Injection moulding, Compression moulding, Transfer moulding.		11
	to 31/03/23			


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Week	Date/Period	Theory /Practical-topics / Lesson	Teaching Aid
8	03/04/23 to 05/04/23	Extruding, casting, Colongforming. Fabrication methods - Sheet forming, Blow moulding, laminating plastic (sheets, rods & tubes), Reinforcement.	White Board & Marker
9	10/04/23 to 15/04/23	Application of plastics. Additive manufacturing process. Introduction, Needs for manufacturing. Fundamentals of Additive Manufacturing.	"
10	17/04/23 to 21/04/23	AM process chain Advantages & limitation of AM, Commonly used Terms	"
11	24/04/23 to 29/04/23	Classification of AM process. Fundamentals Automated process. Distribution bet ⁿ AM & CNC, other related technology.	"
12	01/05/23 to 06/05/23	Application in Design Aerospace Industries, Automotive Industry, Jewellery industry, Arts & Architecture, RP medical & medical & Bioengineering Applications. Web based Rapid Prototyping system.	"
13	08/05/23 to 13/05/23	Concept of flexible manufacturing process. Concurrent Engineering, Production tools like Capstan & turret lathes. Rapid prototyping process.	"
14	15/05/23 to 20/05/23	Special purpose m/c (SPM) Concept, General elements of SPM, Productivity improvement by SPM, SPM principles of like SPM design.	"
15	22/05/23 to 23/05/23	Maintenance of M/C Tools. Types of maintenance, Rapid cycle analysis, Rapid Complexity, maintenance maintenance Record, housekeeping, Introduction to Total Productive maintenance (TPM).	"

Signature of HOD

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