LESSON PLAN.													
6TH SEMESTER W.E.F-14/02/2023 Total Period :- 60													
SUBJECT-ADVANCE MANUFACTURING PROCESSES (Sub code-TH 4b) Theory periods: 4 P/WEAKLY													
Teacher :- CHANDRASEKHAR DASH (PTGF, MECHANICAL ENGINEERING DEPT.)													
SL N O	MON TH	We ek	Date	UNIT NO/P ERIO D ALLO TED	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/sylla bus	Remark s					
1			14-02-2023		1.0 Modern Machining Processes:	covered							
2		звр	15-02-2023		Introduction – comparison with traditional	covered							
3		0110	17-02-2023		Ultrasonic Machining: principle, Description of equipment applications	covered							
4	F E B		20-02-2023		Electric Discharge Machining: Principle, Description of equipment, Dielectric fluid, tools (electrodes).	covered							
5	R U A	4TH	21-02-2023		Process parameters, Output characteristics, applications.	covered							
6	R Y		22-02-2023		Wire cut EDM: Principle, Description of equipment, controlling parameters; applications	covered							
7			24-02-2023		Abrasive Jet Machining: principle, description of equipment	covered							
8			27-02-2023		Material removal rate, application	covered							
9		5TH	28-02-2023	20	Laser Beam Machining: principle, description of equipment	covered							
10		10T	01-03-2023		Material removal rate, application	covered							
11		151	03-03-2023		Electro Chemical Machining: principle	covered							
12			06-03-2023		description of equipment	covered							
13			07-03-2023		Material removal rate, application	covered							
14		2ND	08-03-2023		Plasma Arc Machining	covered							
15	5 		10-03-2023		principle, description of equipment, Material removal rate	covered							
16		3RD	13-03-2023		Process parameters, performance characterization, Applications	covered							
17			14-03-2023		Electron Beam Machining	covered							
18	R		15-03-2023		principle, description of equipment	covered							
19	С		17-03-2023		Material removal rate, Process parameters	covered							
20	- H) -		20-03-2023		performance characterization, Applications	covered							
21			21-03-2023		2.0 Plastic Processing	covered							
22		4TH	22-03-2023 24-03-2023		Processing of plastics	covered							
23					Moulding processes: Injection moulding,	covered							
24					Transfer moulding	covered							
25	-	5TH	28-03-2023		Extruding: Casting	covered							
26			29-03-2023	10	Calendering	covered							
27			31-03-2023		Fabrication methods-Sheet forming	covered							
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28		2ND	03-04-2023		Blow moulding	covered	
20			04 04 2022		Laminating plastics (sheets, rods & tubes),	covered	
29			04-04-2023		Reinforcing		
30			05-04-2023		Applications of Plastics.	covered	
31			07-04-2023		3.0 Additive Manufacturing Process	covered	
32		3RD	10-04-2023		Introduction, Need for Additive Manufacturing	covered	
22			11 04 2022		Fundamentals of Additive Manufacturing, AM	covered	
33			11-04-2023	I	Process Chain		
24			12 04 2023		Advantages and Limitations of AM, Commonly	covered	
54	А		12-04-2023	15	used Terms		
35	P R		14-04-2023		Classification of AM process, Fundamental	covered	
55	I				Automated Processes		
36	B D		17-04-2023		Distinction between AM and CNC, other related		
Ŭ					technologies.		
37		4тн	18-04-2023	15	Application in Design, Aerospace Industry		
38			10 04 2022		Automotive Industry, Jewelry Industry, Arts and		
00			10-04-2020		Architecture		
39			21-04-2023	7	RP Medical and Bioengineering Applications		
40			24-04-2023		Web Based Rapid Prototyping Systems		
41		5TH	25-04-2023		Concept of Flexible manufacturing process		
42			26-04-2023		concurrent engineering		
43			28-04-2023		production tools like capstan and turret lathes		
44			01-05-2023		rapid prototyping processes		
45		1ST	02-05-2023		Revision		
46			03-05-2023		4.0 Special Purpose Machines (SPM)		
47			05-05-2023		Concept, General elements of SPM		
48		200	08-05-2023		Concept, General elements of SPM		
49			09-05-2023		Productivity improvement by SPM		
50			10-05-2023		Principles of SPM design		
51			12-05-2023		Revision		
52	M A Y	3RD	15-05-2023	8	Revision		
53			16-05-2023		5.0 Maintenance of Machine Tools		
54			17-05-2023		Types of maintenance		
55			19-05-2023		Repair cycle analysis		
56		4TH	19-05-2023		Repair complexity, Maintenance manual,		
57			22-05-2023		Maintenance records, Housekeeping		
58			22-05-2023		Introduction to Total Productive Maintenance		
50					(TPM)		
59			23-05-2023		Revision		
60			23-05-2023		Revision		

Chandrasekhar Dash