			Plot No. 2B/1, Knowledge Park - III, Greater Noida		
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			SUBJECT LESSON PLAN		
ourse & Sen	nester:	B.TECH 1ST S	SEM	Batch	2022-26
Subject Name :		Manufacturing Process		Paper Code	ES-119
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	LECTURE				
UNITS	NUMBER	Proposed date	Lecture Content	Actual Date	REMARKS
Unit I		04/40/0004	Definition of manufacturing, Importance of manufacturing	04/40/0004	
	1	24/12/2021	towards technological and social economic development,	24/12/2021	
	3	29/12/2021	Classification of manufacturing processes,	29/12/2021	
		30/12/2021 31/12/2021	Properties of materials.	30/12/2021	+
	5		Metal Casting Processes: Sand casting,	31/12/2021	Completed
	6	3/1/2022 5/1/2022	Sand moulds, Type of patterns,  Pattern materials, Pattern allowances,	_	
				5/1/2022	
	7	6/1/2022	Types of Moulding sand and their Properties,	6/1/2022	
	8	7/1/2022	Core making, Elements of gating system.  Description and operation of cupola	7/1/2022	+
	9	10/1/2022		10/1/2022	-
	10	12/1/2022	casting, Pressure die casting,	12/1/2022	-
	11	13/1/2022	Centrifugal casting. Casting defects.	13/1/2022	
	1	14/1/2022	Joining Processes: Welding principles,	14/1/2022	
	2	17/1/2022	classification of welding processes, Fusion welding,	19/1/2022	
	3	19/1/2022	Gas welding, Equipments used,	_	+
			0, 11	19/1/2022	+
	4	20/1/2022	Filler and Flux materials. Electric arc welding,	20/1/2022	+
Unit II	5	21/1/2022	Gas metal arc welding,	21/1/2022	Completed
	6		Submerged arc welding,	21/1/2022	
	7		Electro slag welding,	24/1/2022	
	8	28/1/2022	TIG and MIG welding process,	27/1/2022	
	9	31/1/2022	resistance welding, welding defects.	27/1/2022	
	1	2/2/2022	Deformation Processes: Hot working and cold working of metals,	28/1/2022	-
Unit III	2	3/2/2022	Forging processes, Open and closed die forging process.	31/1/2022	+
	3	4/2/2022	Typical forging operations, Rolling of metals,	2/2/2022	+
	4		Principle of rod and wire drawing, Tube drawing.	3/2/2022	Completed
	5	7/2/2022 9/2/2022	Principle of rod and wire drawing, Tube drawing.  Principle of Extrusion, Types of Extrusion,	4/2/2022	+
	6	10/2/2022	Hot and Cold extrusion.	4/2/2022	+
	7	11/2/2022	Sheet metal characteristics -Typical shearing operations,	7/2/2022	+
	8	14/2/2022		9/2/2022	
	9	17/2/2022	bending and drawing operations, Stretch forming operations, Metal spinning	10/2/2022	
	9	111212022	oneton forming operations, metal spiriting	10/2/2022	
	1	24/2/2022	Powder Metallurgy: Introduction of powder metallurgy process,	11/2/2022	
	2	25/2/2022	Powder Metallurgy: Introduction of powder metallurgy process,	14/2/2022	1
	3	28/2/2022	powder production, blending, compaction, sintering	17/2/2022	1
	4	2/3/2022	Manufacturing Of Plastic Components: Types of plastics,	24/2/2022	1
Unit IV	5	3/3/2022	Characteristics of the forming and shaping processes,	25/2/2022	1
	6	4/3/2022	Moulding of Thermoplastics,	201212022	1
	7	7/3/2022	Injection moulding,		+
	8	14/3/2022	Blow moulding, Rotational moulding, Film blowing, Extrusion,		1
	9	16/3/2022	Thermoforming. Moulding of thermosets- Compression moulding,		+
	10	21/3/2022	Transfer moulding, Bonding of Thermoplastics		1
extbooks:	10	21/3/2022	manaici moululing, bonding of memoplastics		
	a Technology: Four	ndry Forming and	l Welding Volume 1, P. N Rao, , McGrawHill, 5e, 2018.		
			y Hajra Choudhury, Media Promoters Pvt Ltd.,2008.		
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