HB
ORISSA
TRADE MARK

LION™

Teacher's Lesson Note

2023-24

Name - Gayatri Devi Sethi
Sub - Advanced Manufacturing
Branch - Mech Engg (I & II)
Sem - 6th

Lion

TEACHERS

LESSON NOTE

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used	Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
11/12/24	1st Week	1st	AMP	Modern Machining Process	Introduction	Comparesion with Traditional Machining			Defination of AMP, Along with Traditional & Non Traditional Machining Process Defination & Difference		Chayabo 1/08/24	1/12/24	
		2nd				Ultrasonic Machining Prencipole							
12/12/24		3rd				USM description of equipment			Define, Working Principle, Advantages & Disadvantages along with application of processes :- AJM, LBM, EDM		Chayabo 7/08/24	7/12/24	
		4th				USM Applications							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
8/2/24	2nd Week	1st	AMP	EDM		EDM Principle, Description			Define, Working Principle, Advantage, Disadvantage along with application & process detail explanation :- EBM, ECM, PAM, USM		8/2/24	8/2/24	
		2nd				Dielectric fluid, Tools (electrode)							
20/2/24		3rd				Process Parameters of EDM.			Revision of chapter - 1 (AMP)		20/2/24	20/2/24	
		4th				Output characteristics, Applications of EDM							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
22/02/24	3rd Week	1st		Wire Cut EDM		Wire Cut EDM Principle.			class Test of chapter - 1 AMP		22/02/24	22/2/24	
		2nd				EDM Description of Equipment							
		3rd				EDM controlling Parameters.							
		4th				EDM Applications							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4th Week 1st		AMP		AIM & LBM	AIM Principle, Description							
		2nd				AIM (MRR) & It's Application							
		3rd				LBM Principle & It's Description							
		4th				LBM (MRR) & It's Applications							

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Date	Week Ending	Period	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used	Evaluative Questions	Expected learning outcome	Project work to be assigned	Key words of the Teacher	Signature of the Headmaster	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	5th Week	1st		ECM		ECM with it's Introduction							
		2nd				ECM Principle along with it's diagram							
		3rd				ECM Description of Equipment							
		4th				ECM (MRR) ⇒ Application							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	6th Week	1st		PAM & EBM		PAM & it's Principle, Description							
		2nd				PAM Process, Performance, Characterization & it's Application							
		3rd				EBM Principle, Description, MRR							
		4th				EBM Process Parameters, Performance characterization & it's Application							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
26/2/24	7th Week	1st		Plastic		Processing of Plastics			Define Plastic & its processing		Rayabai 26/02/24	26/2/24	
26/2/24		2nd				Moulding Process its Introduction			Properties & classification of plastic		Rayabai 26/02/24	26/2/24	
27/2/24		3rd				Injection Moulding			Plastic Moulding Techniques → Compression Moulding		Rayabai 27/02/24	27/2/24	
27/2/24		4th				Class Test			Plastic Moulding Techniques → Transfer Moulding		Rayabai 27/02/24	27/2/24	

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Date	Period	Class	Subject	Topic (Concept)	Sub Topic (Sub Concept)	Learning Activities to be taken up	TLM to be used	Evaluative Questions	Expected learning outcome	Project work to be assigned	Sign. of the Teacher	Sign. of the Headteacher	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
28/2/24	8th Week	1st		Moulding		Compression Moulding			Plastic Moulding Technique → Extrusion Moulding Process		Thanks 25/02/24	28/2/24	
		2nd				Transfer Moulding							
28/2/24		3rd				Revision classes			Plastic Moulding Technique → Injection Moulding Process		Thanks 27/02/24	29/2/24	
		4th				Question & Answer Discussion							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
12/3/24	2nd Week 1st			Extruding		Casting Process			Laminating of Plastic High pressure Laminating & Low pressure		12/3/24	12/3/24	
12/3/24		2nd				Calendering Process			Cast Calendaring Process & Specific material		12/03/24	12/3/24	
12/3/24		3rd				Fabrication Methods - Sheet forming, Blow Moulding			Application of plastic		12/03/24	12/3/24	
		4th				Laminating Plastics (Sheets, Rods & tubes)							

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Date	Week	Day	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used	Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	10th Week 1st			Plastic Concept		Reinforcing & Application of Plastics							
14/3/24		2nd				Additive Manufacturing its Needs & Fundamental details			Define - Additive Manufacturing & its Need		Rayabi 14/03/24	S 14/3/24	
14/3/24		3rd				Additive Manufacturing Process Chain			Fundamental of Additive Manufacturing		Rayabi 14/03/24	S 14/3/24	
18/3/24		4th				Advantages of Additive Manufacturing Process			Class Test		Rayabi 18/03/24	S 18/3/24	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1st Week 1st					Limitations of AM & Commonly Used Terms							
	2nd					Classification of AM Process Fundamental Automated Processes							
	3rd					Distinction between AM & CNC, other related technologies							
	4th					AM Application in Design, Aerospace Industry, Automotive Industry							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	12th Week	1st				Jewellery Industry, Arts & Architecture R.P Medical & Bio-engineering Application.							
		2nd				Web-Based Raped-Prototyping System							
		3rd				Revision classes							
		4th				Class Test							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	13th Week	1st		Flexible Manufacturing Process		Flexible Manufacturing Process & its Concurrent Engineering							
		2nd				Production tools like capstan & turrent lathes							
		3rd				Rapid prototyping Processes							
		4th				Concept & General Elements of SPM							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	14th Week	1st		Special Purpose Machening		Productivity Improvement by SPM							
		2nd				Principles of SPM Design							
		3rd				Revision classes							
		4th				Class Test							

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Week	Period	Date	Subject	Topic (Content)	Sub-Topic (Sub-Content)	Learning Activities to be taken up	TLM to be used	Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Supervisor	Remark
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	15th Week	1st		Maintenance of Machine Tools		Types of Maintenance, Repair cycle analyses, Repair Complexity, Maintenance Manual							
		2nd				Maintenance records, House keeping							
		3rd				Introduction to TPM (Total Productive Maintenance)							
		4th				Revision classes							