LESSON PLAN								
Discipline	: Meta	lurgy	Semester:		Name of the Teaching Faculty:			
Engineer			6th semester		Mr Tushar Daspattanayak			
Subject: Mechanical			No of days /week		Semester from Date:14/02/2023 to			
Metallurg	y		class		23/05/2023			
Sub code: Th.2			allotted:04/week		No of weeks:15			
Month Week No of		Ol - D						
Month	Week	No of periods	Class Day		Theory topics to be covered			
		available						
	1st	03 P	14-02-2023 E	Expla	in basic behaviour of metal			
			11.02.2025	Explain type of dislocation				
>			15-02-2023					
AR			16-02-2023	Explain slip and twinning				
FEBRUARY	2 nd	04P	21-02-2023 E	Expla	in deformation of metal elastic and plastic			
				Explain yielding criteria				
				Derive critically resolved shear stress				
				Explain deformation of polycrystalline aggregates				
	3rd	01P		Explain strengthening mechanism				
	4th	03 P		Explain the role of grain boundry strengthening				
				Explain hall petch equation				
				Explain yield point phenomena				
	5 th	02P	09-03-2023	Explain strain aging				
			10-03-2023	Expla	ain solid solution strengthening from fine particles			
	6 th	04P	14-03-2023	Expla	ain fiber strengthening			
H					ain martensitic strengthening			
RCH					ain strain hardening			
MAR	7 th	OAD			ain bauschinger's effect			
	/	04P			ain fundamental of metalworking			
			35 2525		ain type of metal workingprocess			
			23-03-2023	Expla	ain hot working of metal and alloys			
				Expla	ain cold working of metal andalloys			
			28-03-2023	Expla	ain advantage of hot and coldworking			
	8 th	03P	29-03-2023	EXPL	AIN disadvantage of hot and coldworking			
			31-03-2023	Monthly Test				
ADDII			04-04-2023	Expla	ain recovery & Explain recrystallization			
APRIL	9th	04P		Expla	ain grain growth			
	9	041			ain introduction of rollingprocess			
				Explain principle of rolling process				
	10 th			Explain type of rolling process				
		04P		Compare between hot rolling andcold rolling				
			THE RESIDENCE OF THE PARTY OF T	Explain type of roll pass-open pass				
			15-04-2023	Exhie	ain box pass			

	11 th	04P	18-04-2023	Explain different types of rollingdefects	
			19-04-2023	Explain the remedies for rolling defects	
			20-04-2023	Explain introduction of forging	
			22-04-2023	Explain the type of forging process	
	12 th	04P	25-04-2023	Explain the process of forging	
			26-04-2023	Explain the properties of forged products	
			27-04-2023	Explain the defect of forgedproducts	
			29-04-2023	Explain the Remedies for defects	
MAY	13 th	04P	02-05-2023	Explain the introduction of extrusion	
			03-05-2023	Explain application of extrusion, principle of extrusion	
			04-05-2023	Explain the defect of extruded products	
			06-05-2023	Explain the manufacturing ofseamless pipes	
	14 th	05P		Explain the advantages disadvantage of extrusion, Application of Extrusion, Explain the introduction of wire	
			09-05-2023	drawing	
			10-05-2023	Explain application of wire drawing, Explain the defect of wire drawing	
			11-05-2023	Explain the advantages of wire drawing, Explain disadvantage of wire drawing, Explain basic knowledge of formingmethods	
			13-05-2023	Explain concept of deep drawing, Explain the principle of deepdrawing	
	15 th	04P	16-05-2023	Explain the introduction of sheetmetal forming, Explain advantage of sheet metal forming, Explain disadvantage of sheet metalforming	
				Explain application of sheet metalforming, Explain the bending shearing, Explain the banking, metal	
			17-05-2023	working, metal forming	
			18-05-2023	Revision	
			20-05-2023	Revision	

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