LESSON PLAN- WINTER 2023 SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR			
DISCIPLINE-	SEMESTER- 3RD	NAME OF THE FACULTY: ER. Subhashree Jena	
MECHANICAL	NO. OF CLASS	SEM. From date: 01.08.2023 to 30.11.2023	
SUBJECT-	ALLOTED/ PER	No. of weeks: 19th	
ENGINEERING	WEEK-5	THEORY TOPIC	
MATERIALS WEEK	CLASS DAY	. I de la properties	
IST	1.08.2023	Gastion into ferrous and non leffous category	
	2.08.2023	Material classification into ferrous Properties os Materials: Physical, Chemical and Mechanical	
	3.08.2023	Performance requirments	
	4.08.2023	Material reliability and safety	
	5.08.2023		
2ND	7.08.2023	DO Ferrous Materials and alloys	
	9.08.2023	tains and applications of ferrous materials	
	10.08.2023	Characteristics and applications of the Classification, composition and application of low carbon steel,	
	11.08.2023		
		- II was all high allow steel 1001 Steel and state	
3RD	14.08.2023	Alloy steel: Low alloy steel, fight andy steel, dear the steel: Effect of various alloying elements such as Cr, Mn, Ni, V, Mo	
	16.08.2023	DO	
	18.08.2023	Revision Class ·	
4TH	21.08.2023	Iron- Carbon system	
	22.08.2023	2. L. Frame and cooling curves	
	24.08.2023	Concept of phase diagram and cooling en ves  Features of Iron - Cabon diagram with salients micro- constituents of Iron	
	25.08.2023	and Steel	
5TH	28.08.2023	DO	
	29.08.2023	DO and the Grand elegation of crystals, ideal	
		Crystal imperfection, Crystal defines, classification of crystals, ideal crystal and crystal imperfection	
6ТН	1.09.2023	crystal and crystal imperfection: Point defects, line defects, surface defects	
		and volume defects	
7TH	4.09.2023	Types and cause of point defects: Vacacies, Interstitials and impurities	
	5.09.2023	Types and cause of line defects: Edge dislocation and screw dislocation	
	0.00.2022	Effect of imperfection on material properties	
	9.09.2023	Deformation of by slip and twinning, Effect of deformation on material	
		properties	
		DO	
8TH	11.07.2020	Monthly Test	
		Heat Treatment, Purpose of Heat Treatment	
	13.09.2023	Process of heat treatment: Annealing, normalizing, hardening	
		ampering, stress relieving measures	
9ТН		Surface Hardening: Carburizing and Nitriding .	
	21.09.2023	Effect of heat treatment on properties of steel	
		lardenability of steel	
	22.07.2020	00	
		00	
	25.09.2023	Non -ferrous alloys	

3.10.2023 5.10.2023 9.10.2023 11.10.2023	Copper alloys: Composition, property and usage of Copper Aluminum,  Copper-Tin, Babbit, phosperous bronze, brass, Copper- Nickel  Perdominating elements of lead alloys, Zinc alloys and Nickel alloys
5.10.2023 9.10.2023	Copper-Tin, Babbit, phosperous bronze, brass, Copper- Nickel  Perdominating elements of lead alloys, Zinc alloys and Nickel alloys
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11.10.2023	
	Internal Accessment
13.10.2023	High alloy materials like stainless, steel grades of duplex, super duplex materials etc.
17.10.2023	Structure of crystalline solids (Revise)
19.10.2023	Imperfections in solids
28.10.2023	Phase diagrams
3.11.2023	phase transformations
6.11.2023	Metal Alloys
8.11.2023	Structure and properties of ceramics
10.11.2023	Structure and properties of ceramics
14.11.2023	Applications and processing of ceramics
16.11.2023	Engineering Materials
18.11.2023	Engineering Material properties
22.11.2023	Electronic properties of Engineering materials
24.11.2023	Processing of micro and nanoscale materials
25.11.2023	Properties of ferrous materials
27.11.2023	properties of non ferroous materials
29.11.2023	Hypoeuctectoid and hypereutectoid steels
30.11.2023	Hypoeuctectoid and hypereutectoid steels
	13.10.2023 17.10.2023 19.10.2023 28.10.2023 3.11.2023 6.11.2023 10.11.2023 14.11.2023 16.11.2023 22.11.2023 24.11.2023 25.11.2023 27.11.2023

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1echanical Engineering S V S.E.T., Madanpur

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