	SWAMI VIVEKANANI	LESSON PLAN- WINTER 2023 DA 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- ENGINEERING	ALLOTED/ PER	No. of weeks:19th
MATERIALS	WEEK-5	THEORY TOPIC
WEEK	CLASS DAY	1 1 1 de sir properties
1ST	1.08.2023	is the into terrolls and follows the b
	2.08.2023 3.08.2023	Properties os Materials: Physical, Chemical and McChamed.
	4.08.2023	Performance requirments
	5.08.2023	Material reliability and safety
	7.08.2023	DO
	9.08.2023	Ferrous Materials and alloys
2ND	10.08.2023	Characteristics and applications of ferrous materials
2110	11.08.2023	Characteristics and approximents of the Classification, composition and application of low carbon steel,
		medium carbopn steel and high carbon steel Alloy steel:Low alloy steel, high alloy steel, tool steel and stainless steel
	14.08.2023	to Estate functions allowing elements such as CI, Will, 111, 111, 111, 111, 111, 111, 111,
3RD	16.08.2023	Tool steel: Effect of various alloying elements such as Cr, Mn, Ni, V, Mo
	18.08.2023	Tool steel: Effect of various andying stemants
	21.08.2023	Revision class
	22.08.2023	Iron- Carbon system Concept of phase diagram and cooling curves
4TH	24.08.2023	Features of Iron - Cabon diagram
	25.08.2023	Features of from - Cabon diagram
	·	r ·
91 -	28.08.2023	Features of Iron - Cabon diagram
• 5TH	29.08.2023	Features of Iron - Cabon diagram Crystal imperfection, Crystal defines, classification of crystals, ideal
3111	30.08.2023	crystal and crystal imperfection
		Classification of imperfection: Point defects, line defects, surface defects
6ТН	1.09.2023	and volume defects
OTIT		Types and cause of point defects: Vacacies, Interstitials and impurities
	4.09.2023	Types and cause of line defects: Edge dislocation and screw dislocation
	5.09.2023	Types and cause of line defects: Edge dislocation and serew dislocation
7TH	8.09.2023	Effect of imperfection on material properties
	9.09.2023	Deformation of by slip and twinning, Effect of deformation on material
		properties
8TH	11.09.2023	Revision class
	12.09.2023	Monthly Test
	13.09.2023	Heat Treatment, Purpose of Heat Treatment
	14.09.2023	Process of heat treatment: Annealing, normalizing, hardening
	15.09.2023	tampering, stress relieving measures
9ТН	18.09.2023	Surface Hardening: Carburizing and Nitriding
	21.09.2023	Effect of heat treatment on properties of steel
	22.09.2023	Hardenability of steel
	23.09.2023	Purpose Of Heat Treatment
	21.09.2023	Revision class

10711	29.09.2023	Aluminum alloys: Compoosition, property and ueage of Duralmin y- alloy
10TH	29.07.2023	
	3.10.2023	Copper alloys: Composition, property and usage of Copper Aluminum,
11TH	5.10.2023	Copper-Tin, Babbit, phosperous bronze, brass, Copper-Nickel
		Perdominating elements of lead alloys, Zinc alloys and Nickel alloys
12TH	9.10.2023	Internal Accessment
	11.10.2023	Internal Accessment
		High alloy materials like stainless, steel grades of duplex, super
	13.10.2023	High alloy materials like stainless, steel grades of dapters,
		duplex materials etc.
13TH	17.10.2023	Structure of crystalline solids (Revise)
		a vi ve in colida
	19.10.2023	Imperfections in solids
	28.10.2023	Phase diagrams
14TH	28.10.2023	
	3.11.2023	phase transformations
15TH		1.11
	6.11.2023	Metal Alloys
	0.11.2022	Structure and properties of ceramics
16TH	8.11.2023	
	10.11.2023	Structure and properties of ceramics
		- Factories
17TH	14.11.2023	Applications and processing of ceramics
	1611 2022	Engineering Materials
	16.11.2023	Engineering Materials
	18.11.2023	Engineering Material properties
	10.11.2025	
18TH	22.11.2023	Electronic properties of Engineering materials
		C the and papagale materials
	24.11.2023	Processing of micro and nanoscale materials
	25.11.2022	Properties of ferrous materials
	25.11.2023	Properties of ferrous materials
	27.11.2023	properties of non ferroous materials
	27.11.2025	
	29.11.2023	Hypoeuctectoid and hypereutectoid steels
19TH		
	30.11.2023	Hypoeuctectoid and hypereutectoid steels

HOD SIGN.

400

Mechanical Engineering S V S.E.T., Madanpur

PRINCIPAL SIGN.

PRINCIPAL
Swami Vivekananda School of Engg. & Tech
Madanpur, BBSR