		LESSON PLAN-2022
SW	AMI VIVEKANAND	A SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR
DISCIPLINE-	SEMESTER-	NAME OF THE FACULTY:Mr. S.R.Kar
MECHANICAL	3RD	NAIVE OF THE FACOLITI.WIL S.K.Ka
SUBJECT-	NO. OF CLASS	SEM. From date:15.9.2022 to 22.12.2022
ENGINEERING	ALLOTED/	No. of weeks:15TH
MATERIALS	PER WEEK-5	
WEEK	CLASS DAY	THEORY TOPIC
1ST	15.09.2022	Engineering material and their properties
	17.09.2022 19.09.2022	Material classification into ferrous and non ferrous category and
	21.09.2022	Properties os Materials: Physical, Chemical and Mechanical Performance requirments
	23.09.2022	Material reliability and safety
2ND	26.09.2022	DO
	28.09.2022	Ferrous Materials and alloys
3RD	30.09.2022	Characteristics and application of ferrous materials
	6.10.2022	Classification, composition and application of low carbon steel,
	011012022	medium carbopn steel and high carbon steel
4TH	7.10.2022	Alloy steel:Low alloy steel, high alloy steel, tool steel and stainless
4111	11.10.2022	Tool steel: Effect of various alloying elements such as Cr, Mn, Ni,
	13.10.2022	DO
5TH	15.10.2022	ASSIGNMENT
	17.10.2022	Iron- Carbon system
	19.10.2022	Concept of phase diagram and cooling curves
	21.10.2022	Features of Iron - Cabon diagram with salients micro- constituents of
6TH		Iron and Steel
7TH	26.10.2022	DO
	29.10.2022	DO
	1.11.2022	Crystal imperfection, Crystal defines, classification of crystals, ideal crystal and crystal imperfection
	3.11.2022	Classification of imperfection: Point defects, line defects, surface defects and volume defects
8TH	5.11.2022	Types and cause of point defects: Vacacies, Interstitials and
9TH	7.11.2022	Types and cause of line defects: Edge dislocation and screw
	11.11.2022	Effect of imperfection on material properties
	15.11.2022	Deformation of by slip and twinning,Effect of deformation on material properties
10TH	18.11.2022	DO
10111	21.11.2022	DO
	23.11.2022	Heat Treatment, Purpose of Heat Treatment
11777	25.11.2022	Process of heat treatment: Annealing, normalizing, hardening
11TH	29.11.2022	tampering, stress relieving measures
	1.12.2022	Surface Hardening: Carburizing and Nitriding
	3.12.2022	Effect of heat treatment on properties of steel
12TH		
	5.12.2022	Hardenability of steel
	7.12.2022	DO
13TH	9.12.2022	DO
	12.12.2022	Non -ferrous alloys

	14.12.2022	Aluminum alloys: Composition, property and ueage of Duralmin y- alloy
	15.12.2022	Copper alloys: Composition, property and usage of Copper
14TH	17.12.2022	Copper-Tin, Babbit, phosperous bronze, brass, Copper-Nickel
	19.12.2022	Perdominating elements of lead alloys, Zinc alloys and Nickel alloys
	20.12.2022	Low alloy materials like p-91, p-22 for power plants and other high temperature services.
15TH	22.12.2022	High alloy materials like stainless, steel grades of duplex, super duplex materials etc.
HOD SIGN.		PRINCIPAL SIGN.