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SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: Mechanical.	Semester: 3rd.	Name of the Teaching Faculty: Syed Imran Khan.
Subject: Engineering Materials	No of Days/per week class allotted: 4	Semester from Date: 1.8.23 to Date: 20.11.23 No of Weeks: 16
Week	Class Day/ Date	Theory/Practical Topics
1st	1st	Classification of Material, Ferrous Materials
	2nd	Non-ferrous materials
	3rd	Physical / chemical Properties of Materials
	4th	Mechanical Properties of Material.
2nd	1st	Performance Requirement of materials
	2nd	Material Reliability ; Safety.
	3rd	Properties and application of ferrous material
	4th	Low Carbon Steel - application.
3rd	1st	Medium Carbon Steel, high alloy steel
	2nd	Tool steel, Stainless steel.
	3rd	Tool steel, Effect of Ni, V, Mo
	4th	Class test.
4th	1st	Iron - Carbon System
	2nd	Phase diagram
	3rd	Iron Carbon diagram
	4th	Micro - constituent of Iron
5th	1st	Micro - constituent of steel.
	2nd	TTT diagram
	3rd	Doubt clearance of diagram
	4th	Revision of Chapter

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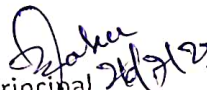
SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: MECH		Semester:	Name of the Teaching Faculty: S. I. Mohan
Subject: E.M.		No of Days/per week class allotted:	Semester from Date: 1.8.23 to Date: 20.11.23 No of Weeks:
Week	Class Day/Date	Theory/Practical Topics	
1st	1st	Crystal deformation, Introduction	
	2nd	Classification of crystal	
	3rd	Crystal Imperfection, Types	
	4th	Point defect - Edge, Vacancy	
2nd	1st	Line defect - screw dislocation	
	2nd	Effect of imperfection on property	
	3rd	Deformation by Slip	
	4th	Deformation by Twin.	
3rd	1st	Effect of deformation on mechanical property.	
	2nd	Introduction to Heat Treatment.	
	3rd	Processes of Heat Treatment	
	4th	Annealing, Normalizing	
4th	1st	Hardening, Tempering	
	2nd	Stress Relieving Measures.	
	3rd	Surface Hardening, carburizing.	
	4th	Nitriding process.	
5th	1st	Effect of heat treatment on steel.	
	2nd	Hardening of steel.	
	3rd	class test.	
	4th	Quiz test	


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The Lesson Plan

Discipline: MECH.	Semester: 3rd	Name of the Teaching Faculty: Eyed Imran Hasan.
Subject: Engineering Materials	No of Days/per week class allotted: 4	Semester from Date: 1.8.2022, to Date: 30.11.23 No of Weeks: 4
Week	Class Day	Theory/Practical Topics
1st	1st	Aluminium Alloys - composition
	2nd	Properties of Duralmin, V-alloye.
	3rd	Copper alloys - composition
	4th	Property and usage of Copper/Aluminium
	5th	Copper-Tin, Babbit Material.
2nd	1st	Phelphoni bronze, brass
	2nd	Copper-Nickel Alloys.
	3rd	Predominantly elements of lead alloys
	4th	Zinc alloys, Nickel Alloys
	5th	low alloy materials, P-91, P-22
3rd	1st	Chapter test, Revision
	2nd	classification of Bearing materials
	3rd	composition, Properties uses.
	4th	Tin, Lead, Cadmium base bearing material
	5th	
4th	1st	Spring Materials, classification
	2nd	composition, Properties, uses
	3rd	Iron Base, Copper Base Spring material
	4th	Surprise Test.
	5th	
5th	1st	P.oly mers, - Definition, Types
	2nd	Properties of thermosetting (thermo plastic)
	3rd	Elastomers, definition Properties
	4th	
	5th	


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Discipline: MECH	Semester: 3rd.	Name of the Teaching Faculty: S. Lakshmi
Subject: EM	No of Days/per week class allotted: 4	Semester from Date: 18.12.23 to Date: 20.11.23 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Composite Macromer types
	2nd	Properties, uses, FRP, Particulate
	3rd	Classification of CERAMIC, uses,
	4th	Q and Answer discussion.
	5th	
2nd	1st	Semester Preparation of long type
	2nd	Semester Question Short type.
	3rd	
	4th	
	5th	
3rd	1st	
	2nd	
	3rd	
	4th	
	5th	
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	


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