PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2022-2023

Discipline: Mechanical Engg

Semester: 3rd Subject: EM

Name of the Teaching Faculty: Y. S. Barik

Subject: F M No. of Days/per week class allotted 01

Semester From Date: 15/09/22 To Date: 21/1/23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
15/9	Material classification	Material	Material classification	
16/9	Ferrous Non ferrous	Ferrous Non ferrous	Ferrous and Non ferrous metal	
20/9	Properties	Properties of material	Physical Chemical property	
21/9	Mechanical property	Mechanical property	Elasticity Plasticity hardness	
22/9	Strength	Strength	Yield strength tensile strength toughness	
23/9	Performance requirement	Performance requirement	Performance requirement	
27/9	Reliability	Reliability	Radio facility & safety	
28/9	ferrous material	ferrous material	ferrous materials alloys, properties	
29/9	Application	Application	Application of ferrous material	
30/9	low carbon steel	low carbon steel	Classification composition application	
11/10	Medium C steel	Medium C steel	medium carbon steel	

Subject: EM No. of Days/per week class allotted 04

Semester From Date : To Date : No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
14/10	High carbon steel	High carbon steel	Composition properties	
13/10	Alloy steel	Alloy steel	low alloy steel composition	
14/10	High alloy steel	High alloy steel	High alloy steel composition	
18/10	Tool steel	Tool steel	Tool steel Stainless steel	
19/10	Tool steel	Tool steel	Effect of various elements	
20/10	Fe- C system	Fe- C system	Iron carbon introduction	
21/10	Phase diagram	Phase diagram	Phase diagram Cooling curve	
26/10	Iron carbon diagram	Iron- Carbon diagram	Features of Iron- Carbon dia.	
27/10	Crystal imperfection	Crystal imperfection	Crystal imperfections	
28/10	Classification	Classification	Classification of crystals	
1/11	Crystal imperfection	Crystal imperfection	Point line, Surface, Vol. defect	

Subject: EM No. of Days/per week class allotted 04

Semester From Date : To Date : No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
2/11	Point defect	Point defect	types & Cause of point defect	
3/11	Line defect	line defect	types & cause of line defect	
4/11	Effect	Effect	Effect of imperfection on material properties	
9/11	Slip	Slip	Deformation by slip & twinning	
10/11	Effect of deformn	Effect of deformn	Effect of deformation on material properties	
15/11	Heat treatment	Heat treatment	Heat treatment purpose	
17/11	Process	Process	Process of heat treatment	
18/11	Surface hardening	Surface hardening	Surface hardening	
22/11	Effect of HT	Effect of HT	Effect of HT on property of steel	
23/11	Hardenability	Hardenability	Hardenability of steel	
24/11	Non ferrous alloy	Non ferrous alloy	Non ferrous alloy	

Subject: EM (Engg. Material) No. of Days/per week class allotted 04

Semester From Date : To Date : No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
28/11	Aluminium alloy	Al. alloy	Composition property, use	
29/11	Cu - alloy	Cu. alloy	Composition	
30/11	Property & usage	Property usage	Property usage	
1/12	Cu. Tin, Bronze Brass	Cu Tin, Bronze Brass	Cu Tin Bronze Brass.	
2/12	Lead alloy	lead alloy	Predominating elements of lead	
6/12	Zinc alloy	Zn - alloy	Zn alloy	
7/12	Nickel alloy	Ni. alloy	Ni alloy	
8/12	low. alloy	low alloy material	P-91 P-22	
9/12	High alloy steel	High alloy steel	High alloy steel.	
13/12	Stainless steel	stainless steel	Stainless steel	
14/12	Super duplex	Super duplex	Super duplex material	

Subject: [illegible]

Semester From Date: No. of Days/per week class allotted: 6

To Date: No. of Weeks: 17

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
3/1	Computer	Computer	Computer, [illegible]	
4/1	do	do	Computer, [illegible] Use	
5/1	General	General	Use, [illegible]	
6/1	New year quotes	New year quotes	[illegible]	