PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2022-2023

Discipline: Metallurgical Engg.

Semester: 6th Subject: C.E.

Name of the Teaching Faculty: Anadi Charan Jena

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

Semester From Date : 14.2.23 To Date : 23.05.23 No. of Weeks : _____

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
16.2.23	Introduction to corrosion, Definition	Same	corrosion, causes examples	
17.2.23	Cost of corrosion	Same	Importance of corrosion study	
20.2.23	Direct and Indirect corrosion	direct & Indirect	Same	
23/2/23	Losses incurred by corrosion, corrosion study	Same	Losses and Importance	
24.2.23	Classification of corrosion	Same	Dry corrosion wet corrosion	
25.2.23	Corrosion rate measurement	expression	rate measurement	
27.2.23	Electro-chemical & Chemical corrosion	Same	Same, with principles	
2.3.23	Chemical corrosion	Same	Principles, examples,	
3.3.23	Principles of corrosion	principles of corrosion	Same	
4.3.23	Electrochemical aspects	Electrochemical aspects	Examples Reaction mechanisms	
6.3.23	polarisation	Same	Same	

No. of Days/per week class allotted 04

Semester From Date : 14.2.23 To Date : 23.5.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
9.3.23	Environmental aspects	Same	Polarisation Theory Humidity, pH etc	
10.3.23	Faraday's laws	1st and 2nd law	Derivations	
11.3.23	Applications of Faraday's laws	Same	Application to metals.	
13.3.23	Causes of deviations	causes,	explanation equations	
16.3.23	Electrochemical cells, Galvanic cells	Same	Types, formation	
17.3.23	Concentration cell	Concentration cell	Half cell reaction	
18.3.23	Electrolytic cell	Electrolytic cell	Explanation	
20.3.23	Electrode potential	Definitions	Explanation examples	
23.3.23	Measurement of electrode potential	Same	Same	
24.3.23	Standard electrode potential	Same	definitions figures	
25.3.22	Emf Series galvanic series	list of elements	Formation	

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emester From Date : 14·2·23 To Date : 23·5·23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
23·3·23	Applications	Applications	Practical applications	
3·3·23	Same	Same	Practical applications	
03·3·23	Forms of corrosion	Same	Simple idea Types of corrosion	
06·3·23	Atmospheric corrosion	Same	factors prevention	
08·3·23	Intergranular corrosion	Intergranular corrosion	Same prevention	
10·3·23	Cont. to	factors	prevention	
13·3·23	Pitting corrosion	Same	factors, prevention	
13·4·23	Cont. to	Same	examples, prevention	
17·4·23	Corrosion fatigue	Corrosion fatigue	factors	
20·4·23	factors	Same	prevention	
21·4·23	Galvanic corrosion	Same	principles	

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
24.4.23	Galvanic corrosion	Same	factors control	
27.4.23	SCC	SCC	examples principles	
28.4.23	SCC	same	factors prevention	
29.4.23	Cavitation corrosion	Same	factors	
1.5.23	factors	Same	Prevention of cavitation corrosion	
4.5.23	Fretting corrosion	Fretting corrosion	factors, prevention	
6.5.23	Oxidation	Oxidation corrosion	Prevention	
8.5.23	Stray current corrosion	Same	Prevention	
11.5.23	Corrosion prevention	same	Importance corrosion	
12.5.23	physical Methods	same	use, examples	
20.5.23	control of environments	same	factors Types	

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Semester From Date : 14.2.23 To Date : 23.5.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
22.5.23	Inhibitors	Types	used in corrosive media	
23.5.23	cathodic & anodic protection	same	comparison	