

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER Session-2021-2022

Discipline: Metallurgical Engg. Semester: 6th

Name of the Teaching Faculty: Anadi Charan Tena

Subject: C. E.No. of Days/per week class allotted 04Semester From Date : 10.3.22 To Date : 30.6.22 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (In brief)	Signature of Teacher
11.3.22	Introduction to Corrosion	Same	Corrosion, causes of corrosion	HA
12.3.22	Definition of Corrosion	Definition of Corrosion	Definition with examples	HA
14.3.22	Cost of Corrosion	Same	Importance of corrosion study	HA
15.3.22	Direct and Indirect losses	Direct and Indirect losses	Same	HA
21.3.22	Losses incurred by corrosion	Same	Losses due to corrosion	HA
22.3.22	Importance of Corrosion Study	Same	Corrosion study in India	HA
25.3.22	Classification of Corrosion	Classification of Corrosion	Dry and Wet corrosion	HA
26.3.22	Dry and Wet Corrosion	Dry and Wet corrosion	Same	HA
28.3.22	Corrosion rate measurement	Same	Corrosion rate measurement	HA
29.3.22	do	- do -	- do -	HA
2.4.22	Electrochemical and chemical corrosion	Same	principles	HA

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

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
4.4.22	Chemical corrosion	Same	Principles, examples	HL
5.4.22	Principles of corrosion	Principles of corrosion	general principles of corrosion	HL
8.4.22	Electrochemical aspects	Electrochemical aspects	Explanation with examples	HL
9.4.22	Electrochemical principles of corrosion	Same	Reaction mechanisms	HL
11.4.22	Polarisation	Polarisation	Principles of polarisation	HL
12.4.22	Polarisation	Same	Polarisation theory	HL
16.4.22	Environmental aspects	Same	Humidity, pH, etc	HL
18.4.22	Faraday's laws	Faraday's laws	1st and 2nd law	HL
19.4.22	Faraday's laws	Faraday's laws	Derivation of laws	HL
22.4.22	Applications of Faraday's laws	Same	Applications to metals	HL
23.4.22	causes of deviations	Same	causes of deviations	HL

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25.4.22	Electrochemical cells	Electrochemical cells	Cells, types of cells	AA
26.4.22	Galvanic cell	Galvanic cell	Formation of galvanic cell	AA
29.4.22	Galvanic cell	Same	Practical examples of galvanic cells	AA
30.4.22	Concentration cell	Concentration cell	Examples, half cell reaction	AA
2.5.22	Concentration cell	Same	Formation of concentration cell	AA
6.5.22	Electrolytic cell	Electrolytic cell	Formation of electrochemical cell, sign convention	AA
7.5.22	Electrode potential	Electrode potential	Definition examples	AA
9.5.22	Measurement of electrode potential	Same	Direct measurements	AA
10.5.22	Standard electrode potential	Standard electrode potential	Definition, difference	AA
13.5.22	Emf Series	Emf Series	list of metals	AA
14.5.22	Galvanic Series	Galvanic Series	Formation in sea water	AA

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17.5.22	Applications	Applications	Practical applications	AA
20.5.22	Applications	Same	Applications of emf and galvanic series	AA
21.5.22	Different forms of corrosion	Same	Simple idea on types of corrosion	AA
23.5.22	Atmospheric corrosion	Atmospheric corrosion	Definition, factors, prevention	AA
24.5.22	Intergranular corrosion	Intergranular corrosion	Factors, remedies	AA
27.5.22	Intergranular corrosion	Principles	Process, prevention	AA
28.5.22	Pitting corrosion	Same	Definition and examples	AA
31.5.22	Factors affecting pitting corrosion	Same	factors, prevention	AA
3.6.22	Corrosion Fatigue	Corrosion fatigue	Definition, causes	AA
4.6.22	Factors	Same	Factors affects, prevention	AA
6.6.22	Galvanic corrosion	Galvanic corrosion	Definition principles	AA

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
7.6.22	Galvanic corrosion	Galvanic corrosion	Factors, control	HA
10.6.22	Stress corrosion Cracking	S.C.C	Definition, principles	HA
11.6.22	S.C.C	Same	Factors, prevention	HA
13.6.22	Cavitation corrosion	Cavitation corrosion	Definition, examples	HA
17.6.22	cavitation corrosion	same	Factors, prevention	HA
18.6.22	Fretting corrosion	Fretting corrosion	Definition remedies	HA
20.6.22	Oxidation	Oxidation corrosion	prevention	HA
21.6.22	stray current corrosion	same	Definition, factors, prevention	HA
24.6.22	corrosion prevention	Same	Importance of corrosion	HA
25.6.22	physical methods, coatings	Same	uses, examples	HA
27.6.22	control of environments	control of environments	Factors, types,	

Subject: CE

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