

Lesson Plan

Subject : Elective: (Corrosion Engg.) (TH-4)

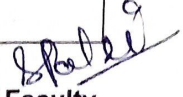
Name of faculty: **SAGARIKA PALEI**

Semester: 6th Class allotted:4p/week

Branch: Metallurgical Engg. Session: 2026(S)

Discipline	Semester	From date:22/12/2025 To date:18/04/2026	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical –Topics/Lesson	
Week	Date/Period		
1	22/12/2025 TO 27/12/2025	Introduction to Corrosion Define corrosion . Explain cost of corrosion, direct and indirect losses.	WhiteBoard Marker Smart board
2	29/12/2025 TO 03/01/2026	State the importance of corrosion studies . Classify different types of corrosion .	White Board Marker Smart board
3	05/01/2026 TO 10/01/2026	Differentiate between electrochemical corrosion and chemical corrosion State the corrosion rate	White Board Marker Smart board
4	12/01/2026 TO 17/01/2026	Corrosion principles: Explain the electrochemical principle of corrosion . State the Faraday's law and its causes and its deviation.	White Board Marker Smart bo
5	19/01/2026 TO 24/01/2026	Types of electrochemical cells Discuss in details galvanic cell, concentration cell and electrolytic cell	White Board Marker Smart board
6	27/01/2026 TO 31/01/2026	Electrode potential: State its significance without experimental measurement..	White Board Marker Smart board


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7	02/02/2026 TO 07/02/2026	. Discuss in details electromotive force and galvanic series and their application with reference to corrosion and protection	White Board Marker Smart board
8	09/02/2026 TO 14/02/2026	Different forms of corrosion: Explain in details about factors affecting mechanism and prevention of following corrosion:	White Board Marker Smart board
9	16/02/2026 TO 21/02/2026	i. Atmospheric corrosion ii. Intergranular corrosion	White Board Marker Smart board
10	23/02/2026 TO 28/02/2026	iii. Pitting corrosion iv. Corrosion fatigue	Marker White Board Smart board
11	02/03/2026 TO 07/03/2026	v. Galvanic corrosion vi. Stress corrosion/cracking	White Board Marker Smart board
12	09/03/2026 TO 14/03/2026	vii. Cavitation corrosion.. viii. Fretting corrosion	Marker White Board Smart board
13	16/03/2026 TO 18/03/2026	, . ix. High temperature oxidation corrosion x. Stray current corrosion	White Board Marker Smart board
14	23/03/2026 TO 28/03/2026	Corrosion Prevention Study the physical, mechanical and chemical characteristic of protective coating.	White Board Marker Smart board
15	30/03/2026 TO 04/03/2026	Explain corrosion prevention by inhibition and	White Board Marker Smart board
16	06/04/2026 TO 11/04/2026	passivation by control of environment (without kinetics). Discuss the cathodic and anodic protection	White Board Marker Smart board
17	13/04/2026 TO 18/04/2026	Revision.....	White Board Marker Smart board

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