LESSON PLAN-6th SEMESTER (2021) SUBJECT: CORROSION ENGINEERING NAME OF THE FACULTY: SOURAV ADHYA MONTH MODULE/UNIT | COURSE TO BE COVERED April Introduction to Corrosion Define Corrosion, Explain Cost and Losses of Corrosion **Importances of Corrosion Studies** Disscuss about types of Corrosion and rate of Corrosion Differentiate between Chemical and Electrochemical Corrosion **Corrosion Principles** 2 May Explain the Electrochemical Principle of Corrosion State the Faraday's Law Causes of Faraday's Law and its Deviation **Types of Electrochemical Cells** 3 Discuss about Galvanic Cell Discuss about Concentration Cell Discuss about Electrolytic Cell **Electrode Potential** 4 Describe and State the Significance of Electrode Potential Discuss in detail about EMF and Galvanic Series 5 **Different Forms of Corrosion** June Various Factors affecting and Prevention of the Following Corrosion Atmospheric and Intergranular Corrosion Pitting Corrosion **Galvanic Corrosion** Cavitation and Fretting Corrosion High Temperature Oxidation Corrosion Stray Current Corrosion Stress Corrosion / Cracking Corrosion Fatigue **Corrosion Prevention** July Studing the Physical Characteristics of Protective Coatting Studing the Chemical Characteristics of Protective Coatting

Studing the Mechanical Characteristics of Proctective Coatting

Corrosion Prevention by Inhibition
Corrosion Control by Passivation

Discuss about Cathodic and Anodic Protection

CLASSES REQUIRED	REMARKS
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