

# Lesson Plan

B. Sc. Engineering Part-IV First Semester, Examination-2022  
Course: ACCE 3141 (Corrosion Engineering-I)

Class Schedule	Chapter Name	Topics	Remarks
1 <sup>st</sup> Class	Passivity	Characteristics of passivation, flade-potential	
2 <sup>nd</sup> Class		Behavior of passivators, trans-passivity	
3 <sup>rd</sup> Class		Theories of passivity	
4 <sup>th</sup> Class		Passive film, passive-active cells, pitting potential	
5 <sup>th</sup> Class		Passivity in alloys	
6 <sup>th</sup> Class		Effects of cathodic polarization and catalysis	
7 <sup>th</sup> Class	Different forms of corrosion	Theories of corrosion	
8 <sup>th</sup> Class		Mechanism of corrosion	
9 <sup>th</sup> Class		Stress corrosion, crevice corrosion	
10 <sup>th</sup> Class		Pitting corrosion, stray current corrosion	
11 <sup>th</sup> Class		Intergranular corrosion, microbial corrosion	
12 <sup>th</sup> Class		Prevention of corrosion	
13 <sup>th</sup> Class	Dry corrosion	Introduction, dry corrosion reaction	
14 <sup>th</sup> Class		Parameters of metal oxidation reaction	
15 <sup>th</sup> Class		Film continuity, Pilling-Beds-worth ratios	
16 <sup>th</sup> Class		Mechanism of oxidation, remedial measures	
17 <sup>th</sup> Class		Catastrophic oxidation, internal oxidation	
18 <sup>th</sup> Class		Oxidation of alloys	



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