

IC (209)424 Corrosion and Corrosion Control**3(3/3-0/0)****Abbreviation CORR AND CORR CONTROL****Prerequisite IC 201 and CHEM 321****This course is opened for MAJOR ELECTIVE COURSE****Course Description**

Properties of materials and their reactions with the environment, oxidation, corrosion of aqueous solutions, forms of corrosion, corrosion prevention, corrosion rate measurements and corrosion testing methods, and case studies of corrosion and corrosion control.

Objectives

1. Students will be able to understand general principles of corrosion and corrosion control.
2. Students will be able to apply principles of corrosion and corrosion control for discussion of case studies.

Course Content**Lecture Hours**

1. Introduction	1
2. Properties of materials and their reactions with the environment	3
3. Oxidation	9
4. Corrosion of aqueous solutions	9
5. Forms of corrosion	6
6. Corrosion prevention	6
7. Corrosion rate measurements and corrosion testing methods	2
8. Case studies of corrosion and corrosion control	9
Total	<hr/> 45 <hr/>