

Flow up of implementation celli pass play

Course Instructor	Samah R. Hassan				
E-mail	ssm811848@gmail.com				
Title	Thermodynamic				
Course Coordinator	Annual				
Course Objective	<ol style="list-style-type: none"> 1. Understand and teach the student the concepts of thermodynamics of materials. 2. Enabling students to obtain knowledge and understanding of the fields of thermodynamics of materials. 3. The student will understand the basic laws of thermodynamics. Students will also be able to obtain knowledge and understanding of the practical framework for applying these laws in closed and open systems. 4. Enabling students to obtain knowledge, understanding, and calculation of enthalpy, entropy, and free energy. 5. Enabling students to obtain knowledge and understanding on creating a phase equilibrium diagram for any alloy. 6. The student's understanding of the foundations of thermodynamics of materials. 				
Course Description	Explanation of the topics of thermodynamics of materials by specialists in the subject, with an emphasis on the use of mathematics and phase equilibrium diagrams as a basis for understanding and learning. It provides them with skills to solve practical problems related to phase equilibrium systems and chemical equilibrium. Topics and concepts of the thermodynamics of materials are presented. The focus is on the topics of free energy and phase equilibrium of materials.				
Textbook	<ol style="list-style-type: none"> 1. Yunus A. Cengel, and Michael A. Boles, "Thermodynamics An Engineering Approach", Second Edition, McGraw-Hill, Inc., USA, 1994 2. Bruno Linder, "Thermodynamics & Introductory Statistical Mechanics", John Wiley & sons, Inc. Hoboken, New Jersey, 2004 3. Robert T. DeHoff, Thermodynamics in Materials Science, McGraw-Hill, 1993. 				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (40%)	As (0%)	----	----	As (60%)
General Notes	Type here general notes regarding the course				

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Diyala
College: Engineering
Department: Material Engineering
Stage: Second
Lecturer name: Samah R. Hassan
Qualification: Ass. Lect. Mechanical Eng.
Place of work: Material Eng. Dept.

Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
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INSTRUCTOR Signature:

Dean Signature: