



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Erbil Technology College	
Department	Automotive Technology Engineering	
Module Name	Thermodynamics	
Module Code	THE506	
Degree	Technical Diploma <input checked="" type="checkbox"/>	Bachelor <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input type="checkbox"/>
Semester	5	
Qualification	Master	
Scientific Title	Assistant Lecturer	
ECTS (Credits)	3	
Module type	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours		
Weekly hours (Theory)	(2)hr Class	(79)Total hrs Workload
Weekly hours (Practical)	()hr Class	(121)Total hrs Workload
Number of Weeks	14	
Lecturer (Theory)	Yaseen Hameed Rashid	
E-Mail & Mobile NO.	yaseen.rashid@epu.edu.iq 07501120497	
Lecturer (Practical)		
E-Mail & Mobile NO.		
Websites		

Evaluation	Task		Weight (Marks)	Due Week	Relevant Learning Outcome
	Paper Review				
	Assignments	Homework	10%	1	
		Class Activity	2 %		
		Report	8 %	1	
		Seminar	8 %	1	
		Essay			
		Project			
	Quiz		8 %	5	
	Lab.		%		
	Midterm Exam		24%		
Final Exam		40%			
Total		100%			
Specific learning outcome:	<p>Upon the completion of this course students will be able to complete the following:</p> <ol style="list-style-type: none"> 1. Describe basic concepts of Thermodynamics. 2. Use thermodynamic terminology correctly. 3. Explain fundamental thermodynamic properties. 4. Derive and discuss the first and second laws of thermodynamics. 5. Solve problems using the properties and relationships of thermodynamic fluids. 6. Analyse basic thermodynamic cycles. 7. Students must have understanding of thermodynamic fundamentals before studying their application in applied thermodynamics. 8. The understanding of thermodynamic properties and processes will assist students in other related coursework. 				
Course References:	<ol style="list-style-type: none"> 1. MICHAEL J. MORAN, HOWARD N. SHAPIRO "Fundamentals of Engineering Thermodynamics" Eighth Edition, WILEY 2008. 2. R. K. Rajput, "ENGINEERING THERMODYNAMICS" T H I R D E D I T I O N, LAXMI PUBLICATIONS (P) LTD 2007. 3. M.C.Potter, C.W. Somerton, "THERMODYNAMICS FOR ENGINEERS ", Schaum's outlines, McGRAW-HILL, 1993. 				

3. Multiple choices:

1. Which of the following follows the Carnot theorem?
- A. Heat engines
B. Gas turbine engines
C. Gas compressors
D. All of the mentioned

Extra notes:

Student must be any time ready for quizzes.

External Evaluator

I have read the terms of this article and acknowledge that it meets the required purpose.

Dr.Basim Mohammed Fadhil

Assistant Lecturer

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