

Blueprint Model for Final Exam

University: Benha University
Faculty: Faculty of Engineering at Shoubra
Department offering the program: Electrical Engineering Department
Department offering the course: Electrical Engineering and Control Program

1- Course Data

Course Code: MEC100 **Course Title:** Thermo-Fluid Engineering
Semester/Level: First / Second **Specialization:** Mechanical Engineering
Prerequisite Course(s): BAS011 Physics of Materials & Electricity **Core or Elective:** Core Course
Credit Hours: 2 **Lecture:** 2 **Tutorial:** 0 **Lab:** 0

Reports for Student Evaluation methods
Learning Outcomes (LO's) That Served by the course.

Cognitive Domain	
#LO1	Discuss the system states, properties, and processes according to fluid base and thermal base
#LO2	Check the properties of pure substances using thermodynamics' tables and Fluid tables
#LO3	Apply the first law of thermodynamics on different systems. And mass conservation in both thermal and fluid systems.
#LO4	Analyze the energy of open and closed systems. In thermal and fluid applications
#LO5	Analyze the static fluid properties and pressure distribution along deep surfaces
Psychomotor Domain	
#LO6	Select the proper processes and components to achieve the heat/work energy demand. For theromos and fluid applications.
Affective Domain	
	None

Reports for Student Assessment Methods for each LO

	Learning Outcomes	Assessment Methods									
		Written Exams	Online Exams	Oral Exam	Pop Quizzes	In-class Problem Solving	Take-Home Exam	Research Assignments	Reporting Assignments	Project Assignments	In-class Questions
Cognitive Domain	LO1	■			■	■			■		■
	LO2	■			■	■			■		■
	LO3	■			■	■			■		■
	LO4	■			■	■			■		■
	LO5	■			■	■			■		■
Psychomotor Domain	LO6	■			■	■			■		■

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Assessment Schedule and Weight

Assessment Tools	Week	Weight
First Midterm Examination	7	20 %
Second Midterm Examination	12	20%
Final Examination	(As Scheduled)	40 %
Quizzes (#3)	3, 9, 13	15 %
Home assignments (#8)	1, 2, 5, 6, 9, 10, 11, 13	5 %
Total		100 %

Final Exam LO Evaluation Sheet

Question No.	LO that Served by the Topic	Mark Assigned to The Topic	Percentage (Mark /Total Exam Mark)	Comments
Q1	1-1 LO1	5	12.5%	Essay and Problem-solving Questions
	1-2 LO1	2	5.0%	
	1-3 LO1, L5, LO6	3	7.5%	
Q2	2-1 LO1, LO5	5	12.5%	Problem-solving Questions
	2-2 LO1, LO3, LO5	5	12.5%	
Q3	a LO1	2	5.0%	Essay and Problem-solving Questions
	b LO1, LO3	3	7.5%	
	c LO3, LO4, LO6	3	7.5%	
	d LO3, LO4, LO6	3	7.5%	
	e LO3, LO4, LO6	4	10.0%	
	f LO2, LO3, LO4	5	12.5%	
Summation		40	100%	Essay and Problem-solving Questions

LO Percentage Through the Final Exam

Question No.	Approximately Cover percentage for each LO in the Exame	
Cognitive Domain	LO1	39.2%
	LO2	7.5%
	LO3	18.8%
	LO4	10.8%
	LO5	12.9%
Psychometer Domain	LO6	10.8%
Affective Domain	--	--

توقيع أستاذ المقرر:

توقيع منسق الجودة بالبرنامج:

توقيع رئيس مجلس القسم/منسق البرنامج: