Course Description Form of thermofluids 1

1. Course	e Name:							
Thermofluid	Thermofluid 1							
2. Course	2. Course Code:							
WBM- 41-05								
3. Semes	3. Semester / Year:							
	semester 1 2024 -2025							
4. Descri	4. Description Preparation Date:							
2024\9\23								
5. Available Attendance Forms:								
-	nce in the classroon							
6. Number of Credit Hours (Total) / Number of Units (Total)								
30 Ho	30 Hours / 3Units							
7. Course	e administrator's n	ame	e (mention all, if more th	an one na	me)			
	anim Kadhim Abdul				- /			
Email:	: Ghanim.sada@uov	wa.e	du.iq					
2. 4								
	e Objectives							
Course Objective	Course Objectives		This subject aims to provide students with					
		knowledge of basic concepts in thermofluids and systems used in thermal science, including						
		thermodynamic laws, processes and cycles, work and						
heat								
9. Teaching and Learning Strategies								
Strategy								
	• Using the smart bo	oard						
Use illustrative pictures whenever possible								
10. Course Structure								
Week Hours	Required Learning Outcor	mes	Unit or subject name	Learning	Evaluation			
				method	method			

1-2	3	Basic Fluid and Thermodynamics Properties State and unit ;	Thermofliid fundamental	Lectures presented i PDF forma	Daily exams + homework t assignments + monthly exams
3	3	Fluid static	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly exam
4 -5	3	Pressure head measurment;	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly exam
6-7	3	Fluid flow and flow pattern;	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly exam
8	3	Newton law of viscosity	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly
9 -10	3	Continuity Equation And energy relationships ;	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly
11 -12	3	Bernoulli equation Pressure drop in pipe	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly
13	3	Reynold number And friction factor	thermofluid	Lectures presented in PDF format	Daily exams homework assignments monthly
14 -15	3	Flow measurement and boundary layer	Thermofluid fundamental	Lectures presented in PDF format	Daily exams homework assignments monthly

11. Course Evaluation

- Daily exams scientific questions.
- Establishing grades for environmental duties and the reports assigned to them
- ☑ Semester exams for the curriculum, in addition to the mid-year exam and final exam
 Lab exam

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12. Learning and Teaching Resources

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