

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue2022-2023College/InstituteErbil Technical Engineering CollegeDepartmentMechanical and Energy EngineeringModule NameEngineering measurementsModule CodeENM203

	Lingineering measurements					
Module Code	ENM203					
Degree	Technical Diploma Bachler 📝					
	High Diploma Master PhD					
Semester	Third Semester					
Qualification	Master Degree					
Scientific Title	Lecturer					
ECTS (Credits)	6					
Module type	Prerequisite Core Assist.					
Weekly hours	4					
Weekly hours (Theory)	(2)hr Class (67)Total hrs Workload					
Weekly hours (Practical)	(2)hr Class (97)Total hrs Workload					
Number of Weeks	20					
Lecturer (Theory)	Hindren Ali Saber					
E-Mail & Mobile NO.	Hindren.saber@epu.edu.iq &					
	07507430728					
Lecturer (Practical)	Mrs. Didar& Mr. Darawan					
E-Mail & Mobile NO.	07507969989					
Websites						
Directorate of Quality Assurance and	Accreditation به دينه دايه تې دانياب چۆرې و متمانه په خشين					

Course Book

Course Description	This course will help the student to understand the basic principles of Measurements in air-conditioning systems design, types of Measurement systems. This course will also explain the principles of energy conservation and heat recovery systems in the range of measurements operations.				
Course objectives	Understanding the main principle of Measurements for air conditioning system and Thermal and Applied Mechanics Measurements.				
Student's obligation	The most important obligation in this subject is that student have to attend a class and should be in the class before the lecturer came to class otherwise that student is absent in this lesson. It will effect on their marks.				
Required Learning Materials					
	Task		Weight	Due	
		TUSK	Weight (Marks)	Week	Relevant Learning Outcome
	F	Paper Review	U		0
	F		(Marks)		0
		Paper Review	(Marks) 0		0
	Assig	Paper Review Homework Class Activity Report	(Marks) 0 0 2 5		0
Evaluation	Assig	Paper Review Homework Class Activity	(Marks) 0 0 2 5 3		0
Evaluation		Paper Review Homework Class Activity Report Seminar Essay	(Marks) 0 0 2 5 3 0		0
Evaluation	Assignments	Paper Review Homework Class Activity Report Seminar Essay Project	(Marks) 0 0 2 5 3 0 5 5		0
Evaluation	Assignments Q	Paper Review Homework Class Activity Report Seminar Essay Project	(Marks) 0 0 2 5 3 0 5 5 5 5		0
Evaluation	Assignments Qui	Paper Review Homework Class Activity Report Seminar Essay Project	(Marks) 0 0 2 5 3 0 5 5		0

	Final Exam	40			
	Total	100			
Specific learning outcome: Course References:	 This course will help the student to understand the basic principles of the working principles of mechanical measurements. Measurements process of working in air-conditioning systems design, types of Mechanical Measurements which can be used in air conditioning systems. This course will also explain the principles of Temperature, pressure and fluid flow properties. Mechanical Measurements www.Google.com Mechanical Measurements. 				
Course topics (Theory)			Week	Learning Outcome	
 Measurements in G Position Sensor Temperature Measurem Pressure Measurem Pressure Measurem Pressure Measuremen Force Measuremen Force Measuremen Force Measuremen Humidity Measuremen Humidity Measuremen Velocity Measuremen Velocity Measuremen Displacement Measuremen Displacement Measuremen Measuremen 	urements nents nents ts nts ments nents nents nents urements surements Measurements	Acceleration			
Practical Topics		Week	Learning Outcome		
Bourdon Gauge disassembly			1-4		
Production Measurements			4-10		
Temperature measurements			10-16		

Questions Example Design

Q1/What are the Potentiometer on Measurements?

Q2/ Define the following Measurements: 1) Thermistor 2) bourdon gauge 3) Strain Gauge

Extra notes:

External Evaluator

I would like to emphasize that this coursebook is covered all the important subjects that are necessary for the second-year mechanical engineering students. The syllabus is well organised and up to date.

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Dr. Dlair O. Ramadan