

Course Book

<p>Course Description</p>	<p>This course is prepared to provide a comprehensive understanding about the main principles of control systems of refrigeration cycles engineering in such a way that the tutees will gain theoretical and practical experience for HVAC control systems, General electrical control components and related issues in real world application.</p>				
<p>Course objectives</p>	<p>The lectures are divided on four weekly hours. Mainly, the first two hours will be dedicated for the topic backgrounds and the main principles. Notes and hand-outs are given to the students containing the detail of the topics. This will be assisted by presentations using word and/or power point slides during the lecture time. Discussion time is provided for the students for questions. The second part of the week is practical time in which scientific experiments are done in the laboratory.</p>				
<p>Student's obligation</p>	<p>Missed classes will not be compensated including the quizzes and the scheduled assignments. The students will lose marks on unattended classes with quizzes unless a legal document or authorized leave is presented which should explain the excuse of the absence. However, the absent student should take the responsibility for making up the missed lecture.</p>				
<p>Required Learning Materials</p>	<p>All lectures prepared in soft and exhibit on data show. Also they are given to students in hard copy. Make about 10 quizzes and one intermediate exam during annual course. In addition to seminars and reports.</p>				
<p>Evaluation</p>	<p>Task</p>		<p>Weight (Marks)</p>	<p>Due Week</p>	<p>Relevant Learning Outcome</p>
	<p>Paper Review</p>				
	<p>Assignmen</p>	<p>Homework</p>	<p>10</p>		
		<p>Class Activity</p>	<p>2</p>		
		<p>Report</p>			
<p>Seminar</p>					

How to control the cooling capacity	Week 9	4, 5 and 6
Types of humidity control equipment	Week 10	5, 6 and 8
Types of temperature control equipment	Week 11	4, 8
High pressure regulators, their types, indications for use and how to work	Week 12	2, 7 and 8
Practical Topics	Week	Learning Outcome
Relay , contactor	1	
Timers	2	
On- Off Starter	3	
Two way controls	4	
Temperature Control	5	
Solenoid valves	6	
Expansion valves	7	

Extra notes:

Nothing

External Evaluator: