

4- Course Specification of: Energy Efficiency and Conservation Course Code (PME5313)

I. General Information About the Course:					
1.	Course Title:	Energy Efficiency and Conservation			
2.	Course Code and Number:	PME5313			
3.	Credit Hours:	Credit Hours			Total
		Lecture	Practical	Seminar/Tutorial	
		3	-	-	3
4.	Study Level and Semester:	First Semester			
5.	Pre-requisites (if any):	-			
6.	Co-requisites (if any):	-			
7.	Program (s) in which the course is offered:	MSc. in Electrical Power Engineering			
8.	Language of teaching the course:	English			
9.	Study System:	Courses & Thesis			
10.	Prepared By:	Prof. Dr. Eng. Omar H. Al-Sakaf			
11.	Reviewed by:	Dr. RAdwan Al-Bouthigy			
12.	Date of Approval:				

II. Course Description:

Efficiency and sustainability of energy systems are pre-requisites for sustainable development and the challenges to achieve this lie at the interface of technology innovation and human behavior. This course is designed to give students the skills to identify and understand energy efficiency and conservation methods used to reduce energy consumption in the built environment. Students will analyze power systems, residential and industrial facilities for opportunities to employ these energy saving measures. Students will become familiar with the use of energy monitoring and measuring equipment used for energy auditing. Students will also learn to calculate energy savings and determine environmental impacts of these energy saving methods. Topics include elements of energy conservation and management, energy conservation in power systems, energy-efficient technologies for green buildings and industrial processes, energy audit, techno-economic and environmental evaluation of energy efficiency measures and case studies.

III. Course Intended Learning Outcomes (CILOs):

Upon successful completion of **Energy Efficiency and Conservation** Course, the graduates will be able to:

- a1 - Recognize that energy conservation in its various forms is the cornerstone of successful national energy strategy.
- a2 - Understand the rationale for and the drivers behind the international trend that energy efficiency has become the first fuel to meet rising energy demand and the first tool to mitigate carbon emissions.
- b1 - Formulate the parts of knowledge and analysis that are required to carry out projects in connection with administration and efficient use of energy in different sectors.
- b2 - Develop new ideas to improve the administration, conservation and efficient use of energy.

- c1 - Conduct energy audits to provide a "bench-mark" (Reference point) for managing energy and planning a more effective use of energy throughout the organization.
- c2 - Evaluate the techno-economic feasibility of the energy conservation and energy efficiency techniques adopted.
- d1 - Demonstrate analytical and problem-solving skills appropriate to the energy sector with focus on energy efficiency improvement and energy conservation.
- d2 - Function effectively in diverse teams and in multi-disciplinary settings to disseminate the benefits of and opportunities for energy efficiency improvement and energy conservation.

IV. Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs)

CILOs		PILOs	
a. Knowledge and Understanding: Upon successful completion of the Energy Efficiency and Conservation Course , the graduates will be able to:		A. Knowledge and Understanding: Upon successful completion of the MSc. in Electrical Power Engineering Program , the graduates will be able to:	
a1.	Recognize that energy conservation in its various forms is the cornerstone of successful national energy strategy.	A1.	Demonstrate in-depth understanding of the theory and practice of modern electrical power systems design and operation and system identification.
a2.	Understand the rationale for and the drivers behind the international trend that energy efficiency has become the first fuel to meet rising energy demand and the first tool to mitigate carbon emissions.	A2.	Recognize and comprehend the key role of sustainable energy for national and global sustainable development.
b. Cognitive/ Intellectual Skills: Upon successful completion of the Energy Efficiency and Conservation Course , the graduates will be able to:		B. Cognitive/ Intellectual Skills: Upon successful completion of the MSc. in Electrical Power Engineering Program , the graduates will be able to:	
b1.	Formulate the parts of knowledge and analysis that are required to carry out projects in connection with administration and efficient use of energy in different sectors.	B1.	Identify, formulate, and solve complex power engineering problems by selecting and applying appropriate tools and techniques.
b2.	Develop new ideas to improve the administration, conservation and efficient use of energy.	B2.	Critically review the scientific literature for effective justification and support of results and decisions.
c. Professional and Practical Skills: Upon successful completion of the Energy Efficiency and Conservation Course , the graduates will be able to:		C. Professional and Practical Skills: Upon successful completion of the MSc. in Electrical Power Engineering Program , the graduates will be able to:	
c1.	Conduct energy audits to provide a "bench-mark" (Reference point) for managing energy and planning a more effective use of energy	C1.	Apply modern tools for research, computation, simulation, analysis, and design of modern power systems.

	throughout the organization.		
c2.	Evaluate the techno-economic feasibility of the energy conservation and energy efficiency techniques adopted.	C2.	Recognize the interdisciplinary nature of technical problems and apply other areas of knowledge to the solution, and work with other professions to arrive at a solution for complex engineering problems.
d. Transferable Skills: Upon successful completion of the Energy Efficiency and Conservation Course , the graduates will be able to:		D. Transferable Skills: Upon successful completion of the MSc. in Electrical Power Engineering Program , the graduates will be able to:	
d1.	Demonstrate analytical and problem-solving skills appropriate to the energy sector with focus on energy efficiency improvement and energy conservation.	D1.	Demonstrate leadership skills in the workplace, to function professionally in a globally competitive world, and to communicate engineering results effectively.
d2.	Function effectively in diverse teams and in multi-disciplinary settings to disseminate the benefits of and opportunities for energy efficiency improvement and energy conservation.	D2.	Realize the relevance of economics, ethics and teamwork to the profession.
		D3.	Pursue advanced graduate studies and lifelong learning.

V. Alignment of CILOs to Teaching and Assessment Strategies

a. Alignment of Knowledge and Understanding CILOs:

Knowledge and Understanding CILOs		Teaching Strategies	Assessment Strategies
a1.	Recognize that energy conservation in its various forms is the cornerstone of successful national energy strategy.	<ul style="list-style-type: none"> ▪ Lectures ▪ Demonstrations ▪ Interactive class discussions 	<ul style="list-style-type: none"> ▪ Group work ▪ Assignments ▪ Oral Presentations ▪ Written Exams
a2.	Understand the rationale for and the drivers behind the international trend that energy efficiency has become the first fuel to meet rising energy demand and the first tool to mitigate carbon emissions.		

b. Alignment of Intellectual Skills CILOs:

Intellectual Skills CILOs		Teaching Strategies	Assessment Strategies
b1.	Formulate the parts of knowledge and analysis that are required to carry out projects in connection with administration and efficient use of energy in different sectors.	<ul style="list-style-type: none"> ▪ Lectures ▪ Demonstrations ▪ Interactive class discussion 	<ul style="list-style-type: none"> ▪ Assignments ▪ Oral Presentations ▪ Exams
b2.	Develop new ideas to improve the administration, conservation and efficient use of energy.		

c. Alignment of Professional and Practical Skills CILOs:

Professional and Practical Skills CILOs		Teaching Strategies	Assessment Strategies
c1.	Conduct energy audits to provide a	<ul style="list-style-type: none"> ▪ Lectures 	<ul style="list-style-type: none"> ▪ Assignments

	"bench-mark" (Reference point) for managing energy and planning a more effective use of energy throughout the organization.	<ul style="list-style-type: none"> ▪ Demonstrations ▪ Interactive class discussion 	<ul style="list-style-type: none"> ▪ Oral Presentations ▪ Exams
c2.	Evaluate the techno-economic feasibility of the energy conservation and energy efficiency techniques adopted.		
d. Alignment of Transferable (General) Skills CILOs:			
Transferable (General) Skills CILOs		Teaching Strategies	Assessment Strategies
d1.	Demonstrate analytical and problem-solving skills appropriate to the energy sector with focus on energy efficiency improvement and energy conservation.	<ul style="list-style-type: none"> ▪ Demonstrations ▪ Interactive class discussion 	<ul style="list-style-type: none"> ▪ Assignments ▪ Oral Presentations.
d2.	Function effectively in diverse teams and in multi-disciplinary settings to disseminate the benefits of and opportunities for energy efficiency improvement and energy conservation.		

VI. Course Content

1. Theoretical Aspect

Order	Topic List / Units	Sub -Topics List	Number of Weeks	Contact Hours	Course ILOs
1	Sustainable Development and Energy Role	<ul style="list-style-type: none"> • Sustainable Development Goals • Goal 7 - Sustainable Energy • Energy Sources, Conversion and Use • Emissions from electricity generation • A Low Carbon Future-Low-emissions Development • Energy Indicators for Sustainable Development • Energy Efficiency Indicators – World Statistics • Energy Efficiency Standards 	1	3	a.1, a.2
2	Elements of Energy Conservation and Management	<ul style="list-style-type: none"> • General energy problem, Sector wise Energy consumption, demand supply gap, Scope for energy conservation and its benefits • Energy conservation Principles • Mandatory provisions of Energy conservation acts • Energy management concept and objectives • Energy management programmes • Energy Conservation vs. Energy Efficiency • Behavior and energy use – Rational Use of Energy 	1	3	a.1, a.2, b.1, b.2, c.1, c.2

3	Energy Conservation in Power Systems	<ul style="list-style-type: none"> • Supply-side Efficiency - Performance improvement of existing power plants - Energy efficient power generation - Cogeneration, Combined Cycle Power Plants - Distributed Generation (Combined heat and power, Micro-turbines, Renewable energy systems) - Zero Emissions Power Generation • Technical measures to optimize transmission & distribution losses • Demand side Efficiency - Demand side management policy concepts - Load response programmes - Types of tariffs and restructuring of electric tariff • Energy Efficiency Policy 	3	9	a.1, a.2, b.1, b.2, c.1, c.2, d.2
4	Energy-efficient technologies for green buildings	<ul style="list-style-type: none"> • Definition of Green Buildings • Green Engineering and Green Cities • Aims of Green buildings/fundamental objectives of green buildings • Benefits of green buildings • Green Building Certification Programmes (LEED, BREAM, ...) • Zero Energy Buildings 	2	6	a.1, a.2, b.1, b.2, c.1, c.2
5	Midterm Exam		1	3	a.1, a.2, b.1, b.2
6	Energy-efficient technologies for industrial processes	<ul style="list-style-type: none"> • Energy efficient industrial power generation • Energy-efficient industrial Equipment • Saving opportunities in electric motors • Benefits of Power factor improvement • Energy conservation by Variable Speed Drives 	2	6	a.1, a.2, b.1, b.2, c.1, c.2, d.1, d.2
7	Energy Audit	<ul style="list-style-type: none"> • Energy audit and its benefits, • Energy flow diagram • Preliminary, Detailed energy audit. • Methodology of energy audit • Energy audit report. • Electrical Measuring Instruments • Rules and regulations for energy audit 	2	6	a.1, a.2, b.1, b.2, c.1, c.2, d.1, d.2
8	Techno-economic and environmental evaluation of energy efficiency measures	<ul style="list-style-type: none"> • Evaluation criteria • Emission reduction potential • Technological feasibility • Economic viability • Carbon Credits and Carbon Markets 	1	3	a.1, a.2, b.1, b.2, c.1, c.2, d.1, d.2
9	Practical examples and case studies	<ul style="list-style-type: none"> • Energy and Renewable Energy Projects • Combining renewables and energy efficiency to improve sustainability of energy development 	2	6	a.1, a.2, b.1, b.2, c.1, c.2, d.1, d.2

		<ul style="list-style-type: none"> • Green Energy Audit of Buildings • Promoting Energy Conservation and Efficiency through Education 			
10	Final Exam	All Topics	1	3	a.1, a.2, b.1, b.2
Number of Weeks /and Contact Hours Per Semester			16	48	

2. Practical Aspect		NA		
Order	Practical / Tutorials topics	Number of Weeks	Contact Hours	Course ILOs
1	▪			
2	▪ ▪			
3	▪ ▪			
Number of Weeks /and Contact Hours Per Semester				

3. Tutorial Aspect:		NA		
No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1				
2				
3				
Number of Weeks /and Units Per Semester		15	30	

VII. Teaching Strategies:

- Formal lectures
- Interactive discussions
- Group work
- Presentations

VIII. Assessment Methods of the Course:

- Group work
- Assignments
- Oral Presentations
- Written Exams

IX. Tasks and Assignments:

No	Assignments/ Tasks	Individual/ Group	Mark	Week Due	CILOs (symbols)
1	<p>Group work; groups will:</p> <ul style="list-style-type: none"> • Prepare a report based on a survey of at least three nearby industries on energy conservation measures adopted by them using questionnaire. • Carry out a survey on internet and prepare a report on energy conservation legislations in Yemen compared with other countries. 	Group	20	3-14	a.1, a.2, b.1, b.2, c.1, c.2, d.1, d.2

	<ul style="list-style-type: none"> Carry out detailed energy audit of the Faculty of Engineering or any other official building. By the end of the semester (Week 14), Student Groups will submit their Final Reports and deliver a PowerPoint presentation within a plenary session. 				
Total Score		20	-	-	

X. Learning Assessment:					
No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment	CILOs
1	Assignments	3-14	20	20%	a.1, a.2, b.1, b.2, c.1, c.2, d.1, d.2
2	Mid-Term Exam	8	20	20%	a.1, a.2, b.1, b.2
3	Final Exam	16	60	60%	
Total			100	100%	-

VIII Learning Resources and Facilities
1- Required Textbook(s)
<ul style="list-style-type: none"> Frank Kreith, D. Yogi Goswami, 'Energy Management and Conservation Handbook', 2nd Edition, CRC Press, 2017. Ming Yang, Xin Yu, 'Energy Efficiency - Benefits for Environment and Society', Springer, 2015.
2- Essential References
<ul style="list-style-type: none"> Moncef Krarti, 'Energy-Efficient Electrical Systems for Buildings', Taylor & Francis Group, 2017. Albert Thumann, Terry Niehus, William J. Younger, 'Handbook of Energy Audits', 9th Edition, River Publishers, 2012. D. Yogi Goswami, Frank Kreith, 'Energy Efficiency and Renewable Energy Handbook', 2nd Edition, CRC Press, 2016.
3- Electronic Materials and Websites etc.
<ul style="list-style-type: none"> Course Power Point. Video clips. Links to information resources.
Educational and research Facilities and Equipment Required

Technology Resources (AV, data show, Smart Board, software, etc.)
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)

• الضوابط والسياسات المتبعة في المقرر Course Policies	
بعد الرجوع للوائح الجامعة يتم كتابة السياسة العامة للمقرر فيما يتعلق بالآتي:	
1	سياسة حضور الفعاليات التعليمية Class Attendance: - يلتزم الطالب بحضور 75% من المحاضرات ويحرم في حال عدم الوفاء بذلك. - يقدم أستاذ المقرر تقريراً بحضور وغياب الطلاب للقسم ويحرم الطالب من دخول الامتحان في حال تجاوز الغياب 25% ويتم اقرار الحرمان من مجلس القسم.
2	الحضور المتأخر Tardy: - يسمح للطالب حضور المحاضرة إذا تأخر لمدة ربع ساعة لثلاث مرات في الفصل الدراسي، وإذا تأخر زيادة عن ثلاث مرات يحذر شفويًا من أستاذ المقرر، وعند عدم الالتزام يمنع من دخول المحاضرة.
3	ضوابط الامتحان Exam Attendance/Punctuality: - لا يسمح للطالب دخول الامتحان النهائي إذا تأخر مقدار (20) دقيقة من بدء الامتحان - إذا تغيب الطالب عن الامتحان النهائي تطبق اللوائح الخاصة بنظام الامتحان في الكلية.
4	التعيينات والمشاريع Assignments & Projects: - يحدد أستاذ المقرر نوع التعيينات في بداية الفصل ويحدد مواعيد تسليمها وضوابط تنفيذ التكاليف وتسليمها. - إذا تأخر الطالب في تسليم التكاليف عن الموعد المحدد يحرم من درجة التكاليف الذي تأخر في تسليمه.
5	الغش Cheating: - في حال ثبوت قيام الطالب بالغش في الامتحان النصفى أو النهائي تطبق عليه لائحة شؤون الطلاب. - في حال ثبوت قيام الطالب بالغش او النقل في التكاليف والمشاريع يحرم من الدرجة المخصصة للتكاليف.
6	الانتحال Plagiarism: - في حالة وجود شخص ينتحل شخصية طالب لأداء الامتحان نيابة عنه تطبق اللائحة الخاصة بذلك
7	سياسات أخرى Other policies: - أي سياسات أخرى مثل استخدام الموبايل أو مواعيد تسليم التكاليف الخ

Academic Year:

Course Plan (Syllabus): Energy Efficiency and Conservation

I. Information about Faculty Member Responsible for the Course:							
Name	Prof. Dr. Eng. Omar H. Al-Sakaf	Office Hours					
Location & Telephone No.	Faculty of Engineering Mobile: 733772328/773332328	SAT	SUN	MON	TUE	WED	THU
E-mail	oalsakaf@gmail.com oalsakaf@yahoo.com		08:00 - 12:00				

II. General information about the course:				
1.	Course Title	Energy Efficiency and Conservation		
2.	Course Code and Number	PME5313		
3.	Credit Hours	Credit Hours		Total
		Lecture	Practical	
		3	-	-
4.	Study Level and Semester	First Semester		
5.	Pre-requisites	-		
6.	Co-requisite	-		
7.	Program (s) in which the course is offered	MSc. in Electrical Power Engineering		
8.	Language of teaching the course	English		
9.	Location of teaching the course	Faculty of Engineering		

II. Course Description:

Efficiency and sustainability of energy systems are pre-requisites for sustainable development and the challenges to achieve this lie at the interface of technology innovation and human behavior. This course is designed to give students the skills to identify and understand energy efficiency and conservation methods used to reduce energy consumption in the built environment. Students will analyze power systems, residential and industrial facilities for opportunities to employ these energy saving measures. Students will become familiar with the use of energy monitoring and measuring equipment used for energy auditing. Students will also learn to calculate energy savings and determine environmental impacts of these energy saving methods. Topics include elements of energy conservation and management, energy conservation in power systems, energy-efficient technologies for green buildings and industrial processes, energy audit, techno-economic and environmental evaluation of energy efficiency measures and case studies.

IV. Course Intended Learning Outcomes (CILOs):

Upon successful completion of **Energy Efficiency and Conservation** Course, the graduates will be able to:

- a1 - Recognize that energy conservation in its various forms is the cornerstone of successful national energy strategy.
- a2 - Understand the rationale for and the drivers behind the international trend that energy efficiency has become the first fuel to meet rising energy demand and the first tool to mitigate carbon emissions.
- b1 - Formulate the parts of knowledge and analysis that are required to carry out projects in connection with administration and efficient use of energy in different sectors.
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II. Course Contents

A – Theoretical Aspects

Order	Topics List	Week Due	Contact Hours
1	Sustainable Development and Energy Role	Week 1	3
2	Elements of Energy Conservation and Management	Week 2	3
3	Energy Conservation in Power Systems	Week 3-5	9

II. Course Contents			
A – Theoretical Aspects			
4	Energy-efficient technologies for green buildings	Week 6-7	6
5	Midterm Exam	Week 8	3
6	Energy-efficient technologies for industrial processes	Week 9-10	6
7	Energy Audit	Week 11 - 12	6
8	Techno-economic and environmental evaluation of energy efficiency measures	Week 13	3
9	Practical examples and case studies	Week 14 - 15	6
10	Final Exam	Week 16	3
Number of Weeks and Units Per Semester		16	48

1. Practical Aspect NA				
Order	Practical / Tutorials topics	Number of Weeks	Contact Hours	Course ILOs
1				
2				
Number of Weeks /and Contact Hours Per Semester				

2. Training/ Tutorials/ Exercises Aspects:		NA	
Order	Tutorials/ Exercises	Week Due	Contact Hours
1			
2			
Number of Weeks /and Contact Hours Per Semester			

V. Teaching Strategies:
<ul style="list-style-type: none"> • Formal lectures • Interactive discussions • Group work <ul style="list-style-type: none"> • Presentations

VI. Assessment Methods of the Course:
<ul style="list-style-type: none"> ▪ Group work ▪ Assignments ▪ Oral Presentations ▪ Written Exams

IX. Tasks and Assignments:				
No	Assignments/ Tasks	Individual/ Group	Mark	Week Due
1	<p>Group work; groups will:</p> <ul style="list-style-type: none"> • Prepare a report based on a survey of at least three nearby industries on energy conservation measures adopted by them using questionnaire. • Carry out a survey on internet and prepare a report on energy conservation legislations in Yemen compared with other countries. • Carry out detailed energy audit of the Faculty of Engineering or any other official building. • By the end of the semester (Week 14), Student Groups will submit their Final Reports and deliver a PowerPoint presentation within a plenary session. 	Group	20	3-14
Total Score			20	-

XI. Learning Assessment:				
No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment
1	Assignments	3-14	20	20%
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3	Final Exam	16	60	60%
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3	ضوابط الامتحان :Exam Attendance/Punctuality - لا يسمح للطالب دخول الامتحان النهائي إذا تأخر مقدار (20) دقيقة من بدء الامتحان - إذا تغيب الطالب عن الامتحان النهائي تطبق اللوائح الخاصة بنظام الامتحان في الكلية.
4	التعيينات والمشاريع :Assignments & Projects - يحدد أستاذ المقرر نوع التعيينات في بداية الفصل ويحدد مواعيد تسليمها وضوابط تنفيذ التكاليف وتسليمها. - إذا تأخر الطالب في تسليم التكاليف عن الموعد المحدد يحرم من درجة التكليف الذي تأخر في تسليمه.
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6	الانتحال :Plagiarism - في حالة وجود شخص ينتحل شخصية طالب لأداء الامتحان نيابة عنه تطبق اللائحة الخاصة بذلك
7	سياسات أخرى :Other policies - أي سياسات أخرى مثل استخدام الموبايل أو مواعيد تسليم التكاليف الخ

