The University of Jordan School of Engineering

		i	School	oi oi Engin	eering			City All		
Department		Course Name			Course Number		Semester			
Mechanical Engineering		Power Plant Engineering			0954443					
		2005 Cou	rse Ca	talog Descri	ption					
-conventionsel power j	onal power pl plant. It also	lants. The design, constr discusses the basics of	ruction, of nuclear	operation, and penergy and op	performance of eration of nucle	various	componer	nts of steam, gas		
			Instr	uctors			i i			
Name		E-mail			Hours	Lecture Time				
			360							
		Text book 1				Text book 2				
Title Author(s)										
Publisher, Year, Edition										
			Dofo	rongos						
	1 Down	nlant Tachnalagy, by N			ww. Uill 1at Edia	tion 109	94 [Toyth	nole]		
ls	3. 10,001	Trant Engineering of It	aga arra	SII vusta vu uira	Dwivedi, ivew	1180 1110	<u> </u>	1 40., 2000		
t links										
			Prere	guisites	-					
uisites by t	topic	1. Air-standard cycles								
		2. Vapor power cycles								
		3. CI Engines operation and performance								
		4. Chemical thermodynamics								
		1 7								
uisites by	course	1. Thermodynamics II								
uicitoc by	0011150	2. Heat Transfer								
	course	-								
101		7	Conice	Covered	-					
			opics	Covereu	Chanter in	Fort	Q	ections		
•					Chapter III	LCAL		CCHUIIS		
C.										
Nuclear	Power Plan	nts.								
1 Solar Power Plant										
Hydroelectric Power Plant										
	Is t links Is t l	anical Engineering arse is concerned with -conventional power property of the power plant. It also passes of plant economic plants of plant economic plants. Name 1. Power 2. A Cor 3. Power 1. Power	Course anical Engineering Power Plant	Course Name	Course Name Power Plant Engineering	anical Engineering Power Plant Engineering 095444 2005 Course Catalog Description arse is concerned with the types, construction, working principles and performance of sele power plant. It also discusses the basics of nuclear energy and operation of nuclear selections are in the environment. The design, construction, operation, and performance of selections and the impact of power plants on the environment. Text Books	Department Course Name Course Number anical Engineering Power Plant Engineering 0954443	Department Course Name Course Number Signated Engineering Power Plant Engineering 0954443		

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Plant economy

Pollution formation and control

00		Ma	pping of Cou			Student Outcome	2S				
SO											
1	 Know the various types of power plants used in Jordan. Knowledge of the various types of conventional and non-conventional power plants. 										
	3 Calculate the performance parameters of various power plants										
2	4. Define and calculate the various factors of plant load and economy.										
4						various components	plants.				
	Í			Evalu	ation						
Asses	ssment To	ools	Expecte	Expected Due Date							
Quiz	zes							20%			
Midt	term Exan	n						30%			
Final	l Exam							50%			
		Cont	ribution of Co	ourse to Mee	t the Profe	essional Componer	nts				
			•	ower plant eco	nomics. Cal	culate present worth	depreciation	on and cost of			
diffe	rent types	s of power pla	nts.								
			Rela	tionship to S	tudent Ou	tcomes					
9	SOs 1		2	3	4	5	6	7			
Avai	ilability	X	X		X						
	Re	elationship t	o Mechanical	Engineering	Program	Objectives (MEP	Os)				
	MEPO1 ME				PO3	MEPO4 MEPO5					
			AB	ET Student (Outcomes	(SOs)					
1	An abili	ty to identify				eering problems by	applying	principles of			
		•	nd mathematic		1 0	<i>U</i> 1	11 5 8	1 1			
2											
	public he	ealth, safety, a	nd welfare, as v	vell as global,	cultural, soc	ial, environmental, a	nd econom	ic factors			
3			cate effectively								
4											
	judgments, which must consider the impact of engineering solutions in global, economic, environmental, and										
	societal contexts										
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative										
	and inclu	isive environn	nent, establish g	goals, plan task	s, and meet	objectives					
6		-		ropriate experi	mentation, a	nalyze and interpret of	data, and us	se engineering			
U		_	lucione								
	 	t to draw cond									
7	 			nowledge as n	eeded, using	appropriate learning	strategies				