

## جامعة الأميرة نورة بنت عبدالرحمن وكالة الجامعة للشؤون التعليمية لجنة تطوير البرامج الأكاديمية

Course Description		
Course title	Wind Energy Technology	
Course code	ECE 333	
College	Engineering	
Department / Program	Electrical Engineering/ Renewable Energy	
Year/ Level	4/8	
Course Type	A.  University College Department Program Others  B.  Required Elective	
Credited Hours	(3 Cr. Hrs)	
Contact Hours	(LT:2, LB:2,TR:0)	
Pre-requisites (if any)	ECE 331/ECE 346	
Co-requisites (if any)		
Course description	Wind Energy Systems including wind energy and wind power design and principles, operation of wind energy systems, economic analysis of wind energy system, site selection and limitations, wind conditions data monitoring and analysis, calculations of electrical power capacity from windmills, integration of windmills electricity with electrical network.	



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الإصدار الأول محرم 1441هـ

- Design, manufacture, and operation of modern wind turbin - Practical testing of wind turbine engineering in laboratory - Explore the political and economic of wind energy  Knowledge and Understanding Define the concepts of Wind energy technology  Skills: Apply wind energy technology concepts and laws to solve pro-	
Knowledge and Understanding Define the concepts of Wind energy technology  Skills:	ics
Define the concepts of Wind energy technology  Skills:	
Learning Outcomes Apply wind energy technology concepts and laws to solve pro-	
	blems.
Values: Work individually or in teams in laboratories and on research professionally.	projects
References  1- Wind Energy Explained, J.F. Manwell, Wiley 2- Wind Power in Power Systems, A. Thomas, John Wiley 3- Wind Energy Conversion Systems, L. L. Freris, Prentice	