

Engineering Program

Specialization	Energy Technology
Course Number	020304262
Course Title	Wind energy technology workshop
Credit Hours	2
Theoretical Hours	0
Practical Hours	6



Brief Course Description:

Investigates the basics of aerodynamic characteristics of wind, dynamic behavior of wind turbine rotors and the generated wind energy.

Course Objectives:

To make the student to feel/understand the wind energy technology



جامعة البلقاء التطبيقية

□ Detailed Course Description:

□ Deta	iled Course Descrip	ption:	
Unit	Unit name	Unit Content	Time
Number			Needed
1.	Overview of Wind Turbine Components		
2.	Guidelines for Wind Measurements		
3	Wind Data Measurements and Analysis		
4	Wind Turbine Testing & Measurement Techniques		
5	Power Curve Measurements		
6	Wind Turbine Test Station visit	•	
7	Wind Turbine Research Station visit		
8	Wind Farms visit		

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	Eval	luation	Strat	tegies:
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		Percentage	Date
1. Exams	Med- Term Exam	20%	
	Reports	30%	
	Final Exam	50%	

	Teaching	Metho	dology:
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Laboratory

□ Textbook:

□ References:

- 1. Wind power; renewable Energy for home, farm & Business; Paul Gipe, 2004.
- 2. Renewable Energy; Bent Sorensen, 2004 ISBN 0-12-656153-2