Jordan University of Science and Technology

Faculty of Science & Arts

Physics Department

PHY233 Electronics (Lab) (1)

First Semester 2017-2018

Course Catalog
1 Credit Hours. Thevenin's theorem , A.C circuits, The Diode, Diode rectifier circuits, Zener Diode, Transistor Emitter Biasing, Transistor Voltage Divider Biasing, The Common Emitter Amplifier, Inverting Op?Amp Circuit.

Text Book	
Title	Experiments in Electronic Devices
Author(s)	Howard M. Berlin
Edition	2nd Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Physicsfor Scientists and Engineers	Raymond A. Serway & John W.	9th Edition	

Instructor	
Name	**Dr. Hasan Al-Khateeb**
Office Location	PH3 L1
Office Hours	Sun : 12:30 - 13:30 Mon : 13:00 - 14:00 Tue : 12:30 - 13:30 Wed : 13:00 - 14:00 Wed : 14:00 - 15:30 Thu : 12:30 - 13:30
Email	hkhateeb@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Tue : 14:30 - 17:30
Room: LAB1 PH3 L0

Prerequisites		
Line Number	**Course Name**	**Prequisite Type**
922310	PHY231 Electronics (1)	Pre./Con.
921060	PHY106 General Physics (Laboratory)(2)	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Thevenin's theorem	
Week 2	A.C circuits	
Week 3	The Diode	
Week 4	Diode rectifier circuits	
Week 5	Zener Diode	
Week 6	Transistor Emitter Biasing	
Week 7	Transistor Voltage Divider Biasing	
Week 8	The Common Emitter Amplifier	
Week 9	Inverting Op-Amp Circuit	

Mapping of Course Objectives to Program Student Outcomes[1]	Assessment method
The ability to design and conduct experiments, as well as to analyze and interpret data [1(b)]	
an ability to analyze and interpret data [1(b)]	

Relationship to Program Student Outcomes (Out of 100%)										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100									

Evaluation	
Assessment Tool	**Weight**
Final	40%

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