



Jordan University of Science and Technology
Faculty of Science & Arts
Physics Department

PHY202 Space Physics

First Semester 2017-2018

Course Catalog

3 Credit Hours. Kepler's laws, motion of the sun and other planets, calendars, electromagnetic spectrum and observatories, stars

Instructor

Name	Prof. Mohammed Al-Qadi
Office Location	NA
Office Hours	Sun : 09:30 - 11:30 Mon : 09:30 - 10:00 Tue : 09:30 - 10:30 Wed : 09:30 - 10:00 Thu : 09:30 - 11:30
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Class Schedule & Room

Section 1:
 Lecture Time: Mon, Wed : 10:00 - 11:30
 Room: NG56

Prerequisites

Line Number	Course Name	Prerequisite Type
921010	PHY101 General Physics (1)	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	The importance of studying astronomy, astronomy in previous civilizations	

Weeks 2, 3	Kepler's laws, Newton's laws, velocity of escape, electromagnetic spectrum	
Weeks 4, 5	Astronomical Distance , Astronomical observations, telescopes	
Weeks 6, 7	Celestial sphere and constellations, The most important stars of the sky, Zodiac, Map of the sky, Astronomical coordinate systems	
Week 8	Sun and its properties	
Week 9	Earth and its properties, Moon	
Weeks 10, 11	Planets, classification of planets and their movements Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto. Asteroids, comets, meteors and meteorites, solar system formation.	
Weeks 12, 13	the Properties of Stars Galaxies	
Weeks 14, 15	Time and timing	

Mapping of Course Objectives to Program Student Outcomes¹		Assessment method
The importance of studying astronomy, astronomy in previous civilizations		mid exam
2. Kepler's laws, Newton's laws, velocity of escape, electromagnetic spectrum Astronomical observations, telescopes [1(a), 1(e)]		mid exam
4. Celestial sphere , and constellations [1(a), 1(e)]		mid exam
5. Solar system [1(a), 1(e)]		
6. stars [1(a), 1(e)]		

Relationship to Program Student Outcomes (Out of 100%)										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
45				45						

Evaluation	
Assessment Tool	Weight
mid exam	40%

Date Printed: 2017-11-28