

Course Specifications

Kingdom of Saudi Arabia

**The National Commission for Academic Accreditation &
Assessment**

**Course Specifications
(CS)**

Course Specifications

Institution: University of Dammam

Date: 15/02/2014

A. Course Identification and General Information

1. Course title and code: Astronomy/ PHY206N		
2. Credit hours: 3(Lecture)		
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs): Bachelor of Physics from Physics department/ College of Science		
4. Name of faculty member responsible for the course: A specific team from the physics Department		
5. Level/year at which this course is offered: Level 4		
6. Pre-requisites for this course (if any): PHY102		
7. Co-requisites for this course (if any): NA		
8. Location if not on main campus: Physics department/ College of Science.		
9. Mode of Instruction (mark all that apply)		
a. traditional classroom	<input type="checkbox"/> Yes	What percentage? <input type="text" value="30"/>
% b. blended (traditional and online)	<input type="checkbox"/> Yes	What percentage?
40 % c. e-learning	No	What percentage?
0% d. correspondence	No	What percentage? <input type="text"/>
0%	<input type="text"/>	<input type="text"/>
f. other	<input type="checkbox"/> Yes	What percentage? <input type="text" value="30%"/>
	<input type="text"/>	<input type="text"/>

B Objectives

1. What is the main purpose for this course?

On completion of the course, the students will be able to understand the The importance of the study of astronomy and study of the components of the earth and its movement. Classification and movement of planets ,asteroids and comets. Devices astronomical and genesis and evolution of stars. Vast universe.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

- Lectures and power point presentation.
- Self learning.
- Open discussions.
- Group work.
- Used Black Board and e-learning.
- Small project.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

1. Topics to be Covered			
	List of	No. of Weeks	Contact
1a	The importance of the study of astronomy Image of th sky at night and Luminaries asteroids	1	3
2a	The importance of the study of astronomy Image of th sky at night and Luminaries asteroids	2	3
3a	Chapter II study of the components of the earth and its	3	3
4a	Chapter II study of the components of the earth and its movement	4	3
5a	Chapter III classification and movement of planets ,asteroids and	5	3
6a	Exam mid-term + Activity	6	3

7a	Chapter III classification and movement of planets	7	3
8a	Chapter IV devices astronomical	8	2
9a	Chapter V genesis and evolution of stars	9	2
10a	Chapter V genesis and evolution of stars	10	2
11a	Chapter VI vast universe	11	2
12a	Chapter VI vast universe	12	2
13a	Review and questions and problems	13	2

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	3	0	0	0	NA	3
Credit	3	0	0	0	NA	3

3. Additional private study/learning hours expected for students per	NA
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code	NQF Learning Domains	Course Teaching	Course Assessment
1.0	Knowledge		
1.1	Know movement of planets and describe asteroids and properties of comets.	<ul style="list-style-type: none"> • Lectures • Self learning 	<ul style="list-style-type: none"> • Quizzes • Assignments
1.2	Summarize devices astronomical and characterize the difference type of telescope and sundial (preparing sundial)	<ul style="list-style-type: none"> • Lectures • Self learning 	<ul style="list-style-type: none"> • Exams • Quizzes
1.3	Discuss components of the earth and various types of movement	<ul style="list-style-type: none"> • Lectures • Self learning 	<ul style="list-style-type: none"> • Exams • Quizzes • Assignments
1.4	Point out the role of genesis and evolution of stars in vast universe	<ul style="list-style-type: none"> • Lectures 	<ul style="list-style-type: none"> • Quizzes • Assignments • Exams
2.0	Cognitive Skills		
2.1	Study different ways for astronomical observations and to identify the proper methods for each	<ul style="list-style-type: none"> • Lectures • Self learning 	<ul style="list-style-type: none"> • Assignments • .
2.2	Comparison of methods for the expected emergence of the universe	<ul style="list-style-type: none"> • Lectures • Group work 	<ul style="list-style-type: none"> • Exams • Assignments • Small project
3.0	Interpersonal Skills & Responsibility		
3.1	The student fluent in dealing with others and collaborative work	Team work	<ul style="list-style-type: none"> • Small project
3.2	The student respects the opinions of others .	Interactive learning	Assignments
3.3	The student accepts criticism.		
4.0	Communication, Information Technology, Numerical		
4.1	Research about some subject in Star formation and evolution and the Asteroids and comets	<ul style="list-style-type: none"> • Research in internet • Team work 	<ul style="list-style-type: none"> • Assignments • Small project
4.2	Communicate with others Receive the comments and explanations are important	<ul style="list-style-type: none"> • Team work • Online discussion 	<ul style="list-style-type: none"> • Interview
5.0	Psychomotor		
5.1	NA	NA	NA
5.2			

5. Map course LOs with the program LOs. (Place course LO #s in the left column and program LO #s

across the top.)

Course LOs #	Program Learning Outcomes													
	Knowledge				Cognitive Skills				Interpersonal Skills & Responsibility			Communication, Information		Psychomotor
	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	4.1	4.2	5.0
1a														
2a														
3a														
4a														
5a														
6a														
7a														
8a														
9a														
10a														
11a														
12a														
13a														

6. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination,	Week Due	Proportion of Total
1	Written exam	6,14	20 %
2	Activity / Group works	11, 14	20 %
3	Activity in Lectures	2-13	10 %
4	Final exam	17	50 %
5			100 %

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- Faculty web-page with communication tools in Black Board.
 - 4 office hours/ week.
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E Learning Resources

1. List Required Textbooks:
2. List Essential References Materials (Journals, Reports, etc.):
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
4. List Electronic Materials, Web Sites Black Board ; Youtube; ebay
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. computer-based

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories extent of computer access etc)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Classrooms enough for 50 student , Black (white) boards.
2. Computing resources (AV, data show, Smart Board, software, etc.) Computer, data show.
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list): Telescop

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- 1- Students evaluation in each semester
- 2- Meeting with students

3- Open door policy

2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department

1- Trip(saitic)

2- Monitoring telescopic

3- Exhibition astronomical.

3 Processes for Improvement of Teaching

- 1- Studying reports
- 2- Training of faculty.
- 3- Exchanging faculty between different institutions (NA)

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

- 1- Taking a sample of assignments and exams to determine validity and reliability(NA)

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- 1- Collecting all reports and evaluations at the end of the year for a reviewing purpose.
- 2-Conducting a workshop to presents finding of reports and evaluation to share knowledge.
- 3-Reviewing results of reports and evaluations with outside reviewers (NA)