Course Specifications

Programme(s) on which the course is given : P., P.&las.
Major or Minor element of programmes : minor -minor
Department offering the programme : P., P.
Department offering the course Physics
Academic year / Level 4
Date of specification approval 2012

A- Basic Information

Title: Atmospheric physics(1) Code: P4911

Credit Hours: 2 h Lecture:2h
Tutorial: 00 Practicals:00 Total: 2h

B- Professional Information

1 – Overall Aims of Course

To provide the basic information and conceptual thinking to deepen the student vision of unity and connection to enrich student understanding of astronomical world

2 – Intended Learning Outcomes of Course (ILOs)

a Knowledge and Understanding:

a1- understanding the changing concepts of Cosmos
a2- The planets :Past and Present.
a3- The universe of stars basic knowledge

b- Intellectual Skills

b1-develop the student ability to read demanding text
b2- Building the student capabilities to think about the universe
b3-develop the modeling skills

c Professional and Practical Skills

c1-Student can learn how he can develop his imagination towards the universe
c2-Understanding the difference between the different stars and planets

d General and Transferable Skills

d1-developing problem solving skills in astronomy

d2- developing the student skills of independent investigation of the universe

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Changing concepts of the cosmos	2	1	
The birth of cosmological modes	6	3	
The clockwork universe	4	2	
The earth: An evolving planet	4	2	
The moon and mercury "dead worlds"	4	2	
Venus and mars : evolved words	4	2	
The Jovian planet primitive world	4	2	

4– Teaching and Learning Methods

4.1-Lectures

4.2-Reports assignment

5- Student Assessment Methods

5.1 written reports to assess collection of information

5.2-periodic oral exams to assess continuation studing.

5.3 mid term exam to assess mid term performance

5.4 final exam to assess the overall outcome

Assessment Schedule

Assessment 1 mid term exam after 7 Weeks

Assessment 2 report every 3 weeks

Assessment 3 final exam after 14 weeks

Weighting of Assessments

Mid-Term written Examination	**20**	**%**
Final-term written Examination	**60**	**%**
Oral Examination.	**10**	**%**
Semester Work	**10**	**%**
Total	**100**	**%**

6- List of References

6.1- Course Notes

experimental physics ,department of physics,2005.

6.2- Essential Books (Text Books)

Physics ,Haliday

6.3- Recommended Books

6.4- Periodicals, Web Sites, … etc

7- Facilities Required for Teaching and Learning

Experimental lab…

Course Coordinator: Prof.Dr.Mahmoud Ewada

Head of Department: Prof.Dr. Sana Maize

Date: / /