نموذج مواصفات المقرر

جامعة : الفيـــــوم كلية : التربيـــــــــــة

Programme(s) on which the course is given Bachelor's Degree of Science and Education (Mathematics)

Major or minor element of programmes Major

Department offering the programme:Education Departments+Mathematics Department

Department offering the course Mathematics

Academic year / Level Third Year (Second-Term)

Date of specification approval 20 / 10 /2008

A- Basic Information

Title Astro-Mechanics Code: 09328 Mat

Credit Hours Lecture: 2

Tutorial: 1 Practicals: Total: 42h

B- Professional Information

1- Overall Aims of Course

On completion of this course student will be able to:

1- Understand and learn the concept of nighttime sky , naked eye view ,motion of sky ,apparent motion of planets.

2 -Apply the concepts for solving some physical planet problems.

2- Intended Learning Outcomes of Course (ILOs)

On completion of this course student will be able to:

A- Knowledge and understanding:

A- 10- 1: Understand the phenomena of Phases of moon and the nighttime sky,

A- 10-2 Understand the nature of light and the formation of solar system.

B- Intellectual Skills:

B-10-1:Increase the students' ability to use the new technological tools .

B-10-2: Show logical thinking and be self independent in problems solving.

C- professional and Practical Skills:

C-9-1: Use the new technological tools .
C-9-2 : Group working.

D- General and Transferable Skills:

D-2-1: Solve many problems in life using the fundamental concepts .
D-2-2: Show mathematical thinking and be self independent in any problem solving situations

3- Contents :

Topic	No. of Hours	Lecture	Tutorial / Practical
1-Introduction	4	2	2
2-Historical Astronomy& units	4	2	2
3- Nighttime sky.	4	2	2
4-Star and lunar clips, phases of the moon.	4	2	2
5-Story life of stars , formation , main sequence.	4	2	2
6-Giant and super giant, dwarfs-Neutron stars.	4	2	2
7-Nova- super Nova, and black holes.	4	2	2

4- Teaching and Learning Methods:

4-1 Lectures.
4-2: Discussion sessions.
4-3: Research assignment .

5- Student Assessment Methods:

5-1: Written exam(mid-term)to assess the level of knowledge and understanding.
5-2: Class work (quizzes)to assess the level of Intellectual skills to discuss and solve some problems .
5-3: Written exam(at the end of term)to assess the ability to pass the exam .

Assessment Schedule :

Assessment 1 : Written exam(mid-term) Week 7
Assessment 2 : Class work (quizzes)Week 4 - 8 - 12

Assessment 3 : Written exam(at the end of term)Week at the end term .

Weighting of Assessments:

Mid-Term Examination	30	%
Final-Term Examination	70	%
Oral Examination		%
Practical Examination		%
Semester Work		%
Other Types of Assessment		%
Total :		100%

Any formative only assessments Homeworks .

6- List of References :

6-1: Course Notes:

Course note prepared by staff members of Math. Dept.

6-2: Essential Books (Text Books):

…….

6-3: Recommended Books:

Celestial mechanics :www.ericwesstein.com

6-4: Periodicals, Web Sites, …….. etc:

www.alibris.com

7- Facilities Required for Teaching and Learning

Library contains new edition books with enough copies.

Computer Lab

Internet networks

Course Coordinator : Dr . Asmal abd El zaher

Head of Department : Prof Kamal El-Dab

Date: / /