Course Specifications

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

A- Basic Information

Title:	**Properties of matter**	**Code: P111**
Credit Hours:	**3h**	**Lecture:3**
Tutorial: 00	**Practicals:00**	**Total: 3h**

B- Professional Information

1 – Overall Aims of Course

By the end of this course, the student should be able to understand the basis of most important phenomenon in nature.

2– Intended Learning Outcomes of Course (ILOs)

a-Knowledge and Understanding:

The student should be able to

a1- understand most phenomenon
a2- have the knowledge about, elasticity, viscosity and gravitation
a3- have the knowledge about, simple harmonic motion, surface tension

b-Intellectual Skills

After completing this course, the student should be able to:

b1-set a program of exercises based on the previous phenomenon
b2- determine the mathematical method to solve the problems

b3- differentiate between the physical and mathematical meaning for the previous phenomenon

c-Professional and Practical Skills

After completing this course, the student should be able to

c1- Apply the net gain information it in some experimental work

d-General and Transferable Skills

d1- the student should be able to provide the technological information about this course through different ways

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Dimension theory	2	1	2
Simple harmonic motion	9	3	4
Viscosity	6	2	2
Gravitation	12	4	4
Elasticity	6	2	2
Surface tension	6	2	2

4– Teaching and Learning Methods

4.1- lectures

4.2 – Open discussions

5- Student assessment methods

5.1 Written Exam to assess understanding and intellectual competencies.

5.2- Oral exam to assess attendance, data collection and presentation.

Assessment schedule

Assessment 1	Mid term	Week 8
Assessment 2	Semester activities	Week 10
Assessment 3	Final term written exam	Week

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Weighting of assessments

Mid-Term Examination (written)		**20 %**
Final-term Examination (written)		**60 %**
Semester Work (presentation)		**20 %**
Total	**100 %**	

6- List of References

6.1- Course Notes

6.3- Recommended Books

6.4- Periodicals, Web Sites, … etc

7- Facilities Required for Teaching and Learning

Books, internet facility, computers, data show, periodicals

Course Coordinator: Dr.Amin El-Adawy
Head of Department: Prof.Dr. Sana Maize
Date: / /