جامعة المجمعة
Majmaah University

# Course Specifications

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|---|---|
| Institution: | College of Education in Zulfi |
| Academic Department : | Physics |
| Programme : | Bachelor in Education |
| Course : | General Physics (1) |
| Course Coordinator : | Budor altheeb |
| Programme Coordinator : | Dr. fatema alzahraa |
| Course Specification Approved Date : | 1/ 1/ 1438 H |

This form compatible with NCAAA 2013 Edition

## A. Course Identification and General Information

| | | | |
|---|---|---|---|
| 1 - Course title : | General Physics (1) | Course Code: | PHYS 111 |
| 2. Credit hours : | ( 2 ) 1Theoretical 2 Practical | | |
| 3 - Program(s) in which the course is offered: | ..... | | |
| 4 – Course Language : | Arabic language | | |
| 5 - Name of faculty member responsible for the course: | Budor altheeb | | |
| 6 - Level/year at which this course is offered : | The first level | | |
| 7 - Pre-requisites for this course (if any) : • ..... | | | |
| 8 - Co-requisites for this course (if any) : • ..... | | | |
| 9 - Location if not on main campus : ( ..... ) | | | |

10 - Mode of Instruction (mark all that apply)

| | | | |
|---|---|---|---|
| A - Traditional classroom | √ | What percentage? | 100 % |
| B - Blended (traditional and online) | | What percentage? | ..... % |
| D - e-learning | | What percentage? | ..... % |
| E – Correspondence | | What percentage? | ..... % |
| F - Other | | What percentage? | ..... % |

Comments :

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## B Objectives

What is the main purpose for this course?

The definition of the student the foundations vectors and Si units and derived Si units physics student also recognize the different types of movements and studying detailed motion in a straight line and the movement of projectiles and circular motion

Briefly describe any plans for developing and improving the course that are being implemented :

- Use of the Internet in the preparation of the necessary lessons
- Use progressive presentations to explain the Course.

## C. Course Description

### 1. Topics to be Covered

First: theoretical lessons

| List of Topics | No. of Weeks | Contact Hours |
|---|---|---|
| Si units and derived Si units | 1 | 1 |
| Vectors | 2 | 1 |
| Vectors (Continued) | 3 | 1 |
| motion in one dimension | 4 | 1 |
| motion in one dimension(Continued) | 5 | 1 |
| Mid-term test | 6 | 1 |
| motion in two dimensions | 7 | 1 |
| Projectile motion | 8 | 1 |
| Circular motion | 9 | 1 |
| Simple harmonic motion and Simple pendulum | 10 | 1 |
| Work and energy | 11 | 1 |
| The law of conservation of energy | 12 | 1 |
| Ohm's Law | 13 | 1 |
| resistors in series and parallel | 14 | 1 |
| Final test | 15 | 2 |

Second: practical lessons

| List of Topics | No. of Lesson practical |
|---|---|
| definition devices - Different measurement devices(Submitted in this publication with Vernier) | 1 |
| Different measurement devices(Micrometer) | 2 |
| Simple pendulum | 3 |
| Measuring the coefficient of rigidity and Hooke's law | 4 |
| Achieve Ohm's Law | 5 |
| Achieve resistors in series and parallel | 6 |
| Freefall | 7 |
| Table forces | 8 |
| General Review | 9 |
| General Review | 10 |
| Practical test | 11 |
| Final Practical test | 12 |

### 2. Course components (total contact hours and credits per semester):

| | Lecture | Tutorial | Laboratory | Practical | Other: | Total |
|---|---|---|---|---|---|---|
| **Contact Hours** | **15** | ..... | **24** | ..... | ..... | **39** |
| **Credit** | 15 | ..... | **12** | ..... | ..... | **27** |

## 3. Additional private study/learning hours expected for students per week.

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## 4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

| | NQF Learning Domains And Course Learning Outcomes | Course Teaching Strategies | Course Assessment Methods |
|---|---|---|---|
| **1.0** | **Knowledge** | | |
| **1.1** | To know Student the foundations of Vector | Showing the objectives of Course and asks the student to participate in the Compilation the latest information serve Course and discuss it in a group photo. | -Discussions and ask questions<br>- Mid-term test<br>- Scientific activities and cooperation within the halls |
| **1.2** | To know the student the Si units and derived Si units of Physics | | |
| **1.3** | To know the student the different types of movements and studying detailed motion in a straight line and the movement of projectiles and circular motion | | |
| **2.0** | **Cognitive Skills** | | |
| **2.1** | The development of means to obtain information for the Student | - Lectures<br>- Asking questions and discussions<br>- Collaborative learning within the lesson<br>- Blackboard | - Questions oral during discussions and participation<br>- Mid-term test |
| **2.2** | Personal Development the student to become a personal constructive dialogue | | |
| **2.3** | Urge the student to seek knowledge by several means, and most important electronic means | | |
| **3.0** | **Interpersonal Skills & Responsibility** | | |
| **3.1** | Communication skill with others | Showing the | - Assessment of |

| | NQF Learning Domains And Course Learning Outcomes | Course Teaching Strategies | Course Assessment Methods |
|---|---|---|---|
| **3.2** | Skill to take responsibility and lead the team | objectives of Course and asks the student to participate in the Compilation the latest information serve Course and discuss it in a group photo. | their active participation during the discussions<br>- Mid-term test |
| **3.3** | Cooperative work skills through discussions, seminars and collaborative work | | |
| **4.0** | **Communication, Information Technology, Numerical** | | |
| **4.1** | The use of electronic networks to serve the course | -The Cooperative learning<br>-Teamwork | - Tests position inside the halls<br>-Evaluation of activities by each student |
| **4.2** | Develop the skills of teamwork and communication | | |
| **5.0** | **Psychomotor** | | |
| **5.1** | Teach student active participation mental methods through discussion | -Provide the devices, which can applied the theoretical part<br>-Utilization of available resources as much as possible | - Tests position inside the halls<br>- Assessment of their active participation during the discussions |
| **5.2** | Teach student THE participation through kinetic methods applied in the preparation of the COURSE | | |

## 5. Schedule of Assessment Tasks for Students During the Semester:

| | Assessment task | Week Due | Proportion of Total Assessment |
|---|---|---|---|
| **1** | Mid-term test | **6** | **20** |
| **2** | QUIZ TEST/ theoretical | **8** | **10** |
| **3** | QUIZ TEST/ practical | **10** | **10** |
| **4** | Final practical test | **13** | **20** |
| **5** | final theoretical test | **15** | **40** |

## D. Student Academic Counseling and Support

| |
|---|
| 2 Office hours |

## E. Learning Resources

**1. List Required Textbooks :**

• General Physics to Dr. Samani Ali Shukrallah
• General Physics authored d / Khalil my scarf d / known Abdullah and d / Riad al-Bitar

**2. List Essential References Materials :**

• General Physics to Dr. Samani Ali thanked God + different sites from the internet

**3. List Recommended Textbooks and Reference Material :**

- .....
- .....
- .....

**4. List Electronic Materials :**

- .....
- .....
- .....

**5. Other learning material :**

- .....
- .....
- .....

## F. Facilities Required

**1. Accommodation**

• not exceed the number of seats from 50 seats in the lecture hall.

**2. Computing resources**

• Required number five devices Data show
• Required 3 computers

**3. Other resources**

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## G Course Evaluation and Improvement Processes

**1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching:**

• Mid-term test
• debates within the halls
• Effective participation
• Assessment of Research
• questionnaires distributed to the students to find out their opinions about the effectiveness of the Course method of teaching

**2 Other Strategies for Evaluation of Teaching by the Program/Department**

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|---|
| **Instructor :**<br>•The use of e-assessment to provide justice in evaluation<br>• periodic review to cycle through a committee study plans and schedules in Section |
| **3 Processes for Improvement of Teaching :**<br>• Provide display devices in halls<br>• Based on the recommendations of the Committee plans and schedules, and internal audit and visiting professor |
| **4. Processes for Verifying Standards of Student Achievement**<br>• teaching independent sample of student work<br>• The professor COURSE exchange to correct sample of the duties or tests on a regular basis with a faculty member to another in the same COURSE, other educational institution |
| **5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement :**<br>• evaluating courses annually by the Committee for Quality<br>• Update decisions that need to be developed annually<br>• The use of modern technological means for ease of explanation courses |

## Course Specification Approved
## Department Official Meeting No ( 2 ) Date 1/ 1 / 1438 *H*

| Course's Coordinator | | Department Head | |
|---|---|---|---|
| ***Name :*** | Budor altheeb | ***Name :*** | Dr. fatema alzahraa |
| ***Signature :*** | ..... | ***Signature :*** | ..... |
| ***Date :*** | 13/ 4 / 1438 *H* | ***Date :*** | 13./ 4 / 1438 *H* |