**Course Report of**

**Physics (1) - PHM 021 2015 -2016**

**University: Ain Shams Faculty: Engineering**

**A- Basic Information**

**1. Title and code:**

Physics (1) - PHM 021

**2. Program (s) on which this course is given:**

**3. Year/ Level of program:**

All programs ASU - FoE offers

Preparatory Year, 1st and 2ndsemesters

**4. Units/Credit hours:**

(i) Lectures

4

(ii) Tutorial/Practical

2

(iii) Total

6

**5. Names of lecturers contributing to the delivery of the course:**

* 1. Prof. Khaled Abdelwahab Kirah
  2. Dr. Samy Abd Elrahmaan
  3. Dr. Ahmed Shaker
  4. Dr. Mahmoud Ibrahim Ossaimie
  5. Dr. Mona El Sabagh
  6. Dr. Mohamed El Banna
  7. Dr. Dalia Selim
  8. Dr. Ismail Nassar

**Course coordinator Prof. Khaled Abdelwahab Kirah**

**External evaluator ………N/A……………**………

**B- Statistical Information**

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| --- | --- | --- | --- |
|  | | **Number** | **Percentage %** |
| **Students completing the course** | | 1873 | 100 |
| **Results** | Passed | 1440 | 76.88 |
| Failed | 433 | 23.12 |
| **Grading of Successful Students** | Excellent | 65 | 3.5 |
| Very Good | 201 | 10.7 |
| Good | 359 | 19.2 |
| Pass | 815 | 43.5 |

**C- Professional Information**

**1 – Course teaching**

|  |  |  |
| --- | --- | --- |
| **Topics actually taught** | **No. of hours** | **Lecturers** |
| Units and Dimensions | **2** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Physical Mechanics | **8** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Simple Harmonic Motion | **4** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Elastic Properties of Materials | **4** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Surface Tension | **4** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Hydrodynamics and Viscosity | **6** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Vectors | **4** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Electric Field | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Electric Potential | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Capacitors and Dielectrics | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Electric Current | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| **Total (1st semester)** | **56** |  |
| Magnetic Field | **2** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Magnetic Force | **4** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Sources of the Magnetic Field | **4** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Electromagnetic Induction and Inductance | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Classification of Various Magnetic material | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Alternating Current | **6** | Prof. Khaled Kirah, Dr. Mahmoud Ibrahim, Dr. Mona El Sabagh, Dr. Ismail Nassar |
| Heat Transfer | **2** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Kinetic Theory of Gases and the Law of Equipartion of Energy | **4** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| First Law of Thermodynamics and Applications. | **6** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Refraction of Light Through Prisms and Prism Combinations | **4** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Instruments | **2** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Reflection and Refraction of Light at Spherical Boundaries | **4** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Thin and Thick Lenses | **3** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| Lens Aberrations | **3** | Dr. Samy Abd Elrahmaan, Dr. Ahmed Shaker, Dr. Mohamed El Banna, Dr. Dalia Selim |
| **Total (2nd semester)** | **56** |  |

**Topics taught as a percentage of the content specified:**

**>90 % X 70-90 % <70%**

Reasons in detail for not teaching any topic

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If any topics were taught which are not specified, give reasons in detail

**…N/A**……………………..

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**2- Teaching and learning methods:**

Lectures: **X**

Practical training/ laboratory: **X**

Seminar/Workshop:

Class Activity: (Tutorials) **X**

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## Case Study:

Other assignments/homework:

If teaching and learning methods were used other than, those specified, list and give reasons:

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**3- Student Assessment:**

Method of assessment Percentage of total

Written final examinations **60**%

Written Midterm examinations **20**%

Practical/laboratory work **20**%

Total 100 %

Members of examination committee

1. Prof. Khaled Abdel Wahab Kirah
2. Dr. Samy Abd Elrahmaan
3. Dr. Salwa Eltawel
4. Dr. Marwa Ragheb
5. Dr. Mahmoud Ibrahim Ossaimie
6. Dr. Mona El Sabagh
7. Dr. Mohamed El Banna

viii. Dr. Ismail Nassar

Role of external evaluator

…… **N/A** ………………………………

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**4- Facilities and teaching materials:**

Totally adequate: **X**

Adequate to some extent

Inadequate

List any inadequacies

**5- Administrative constraints**

List any difficulties encountered

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**6- Student evaluation of the course: Response of Course Team**

List any criticisms

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**7- Comments from external evaluator(s): Response of course team**

……… **N/A** ………………. …………………………….

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**8- Course enhancement:**

**Progress on actions identified in the previous year’s action plan:**

**Action State whether or not completed and give reasons for any non-completion**

**N/A** ………………………. …………………………….

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**9- Action plan for academic year 2015 – 2016**

**Actions required Completion date Person responsible**

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**Course coordinator: Prof. Khaled Abdel Wahab Kirah**

**Signature:**

**Date: November 15, 2015**