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| *Course report of* |
| **Statics – PHM\_031s – Fall 2019** |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. **Title and code :**

|  |
| --- |
|  **(Statics) – PHM\_031s** |

1. **Program on which the course is given :**

|  |  |
| --- | --- |
|

|  |
| --- |
| **All Programs** |

 |

1. **Year/Level of programs :**

|  |
| --- |
| **1stLevel** |

1. **Units/Credit Hours**

|  |  |
| --- | --- |
| **( i ) Lecture :** | **2** |

|  |  |
| --- | --- |
| **( ii ) Tutorial/Practical :** | **2+1** |

|  |  |
| --- | --- |
| **( iii ) Total :** | **5** |

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

|  |  |
| --- | --- |
| **i -** | **Dr. Hussein Elsayed Mohamed Hussein** |

|  |  |
| --- | --- |
| **Course coordinator:** | **Dr. Hussein Elsayed Mohamed Hussein** |

|  |  |
| --- | --- |
| **External evaluator:** | **--- --- ---** |

## Statistical Information

## For the PHM\_ 031s students

|  |  |
| --- | --- |
| **No. of students attending the course:** | **1737** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **A+** | **A** | **A-** | **B+** | **B** | **B-** | **C+** | **C** | **C-** | **D+** | **D** | **F** | **SUM** |
| **Students No.** | **45** | **149** | **207** | **288** | **197** | **180** | **118** | **103** | **84** | **76** | **103** | **187** | **1737** |
| **Percentage %** | **2.6** | **8.6** | **11.9** | **16.6** | **11.3** | **10.4** | **6.8** | **5.9** | **4.8** | **4.4** | **5.9** | **10.8** | **100** |

## Professional Information

1. **Course Teaching:**

|  |  |  |
| --- | --- | --- |
| **Course Content** | **No. of Hours** | **Lecturer** |
| **Statics of Particles** | **12** | **Dr. Hussein Elsayed** |
| **Rigid Bodies :Equivalent Systems of Forces** | **12** | **Dr. Hussein Elsayed** |
| **Equilibrium of Rigid Bodies** | **8** | **Dr. Hussein Elsayed** |
| **Analysis of Structure: Frames** | **8** | **Dr. Hussein Elsayed** |
| **Analysis of Structure:Trusses** | **8** | **Dr. Hussein Elsayed** |
| **Centroid-Center of Mass** | **8** | **Dr. Hussein Elsayed** |
| **Mass Moment of Inertia**  | **4** | **Dr. Hussein Elsayed** |

|  |  |  |
| --- | --- | --- |
| **Week** | **Title of Experiment** | **Laboratory****Hours** |
| 1 | Introduction to mechanics Lab | 1 |
| 2 | Introduction to Measuring Instruments | 1 |
| 3 | Determination of the gravitational acceleration  | 1 |
| 4 | Determination of the gravitational acceleration (Repeat) | 1 |
| 5 | Determination of a spring stiffness  | 1 |
| 6 | Determination of a spring stiffness (Repeat) | 1 |
| 7 | Force analysis ( Equilibrium of a of a particle) | 1 |
| 8 | Force analysis ( Equilibrium of a of a particle) (Repeat) | 1 |
| 9 | Friction on a leveled plane  | 1 |
| 10 | Friction on a leveled plane (Repeat) | 1 |
| 11 | Friction on an inclined plane | 1 |
| 12 | Friction on an inclined plane (Repeat) | 1 |
| 13 | Center of gravity | 1 |
| 14 | Center of gravity (Repeat) | 1 |
| 15 | General Revision | 1 |
| Total Number of Hours | 15 |

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

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

**Reasons in detail for not teaching any topic**

**……………………………………….**

**………………………………………………………………………………………………**

**………………………………………………………………………………………………**

**………………………………………………………………………………………………**

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

**N/A………………………………………………………………………………………….**

**………………………………………………………………………………………………**

**………………………………………………………………………………………………**

**Teaching and learning methods:**

 **Lectures: X**

**Practical training/ laboratory:**

**Seminar/Workshop:**

**Class Activity: (Tutorials) X**

**Case Study:**

**Other assignments/homework:**

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

**………………………………………………………………………………………………**

**………………………………………………………………………………………………**

1. **Student assessment:**

|  |  |
| --- | --- |
| **Method of assessment** | **Percentage of total** |
| **Written examination (Final+ mid-term)** | **85 %** |
| **Quizzes** | **5 %** |
| **Attendance, class work, Lab.** | **10 %** |

**Members of examination committee**

**i–Dr. Hussein Elsayed Mohamed Hussein , ii- Dr. Ahmed Ezzat**

**Role of external evaluator**

**N/A………………………………………………………………………………………….**

**………………………………………………………………………………………………**

1. **Facilities and teaching materials:**

**Totally adequate**

**Adequate to some extent X**

**Inadequate**

**List any inadequacies**

1. **Administrative constraints:**

**List any difficulties encountered**

 **No difficulties**

1. **Student evaluation of the course:**