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| *Course report of* | |
| **Statics – PHM\_031s–Spring 2020** | |
| 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

**Research Assignment:**

|  |  |
| --- | --- |
| **No. of students attending the course:** | **182** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **P** | **A** | **A-** | **B+** | **B** | **B-** | **C+** | **C** | **C-** | **D+** | **D** | **F** | **SUM** |
| **Students No.** | **173** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **9** | **182** |
| **Percentage %** | **94.5** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **5.5** | **100** |

**Improvement Exam:**

|  |  |
| --- | --- |
| **No. of students attending the course:** | **14** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **P** | **A** | **A-** | **B+** | **B** | **B-** | **C+** | **C** | **C-** | **D+** | **D** | **F** | **SUM** |
| **Students No.** | **11** | **0** | **0** | **3** | **2** | **3** | **0** | **0** | **1** | **0** | **2** | **3** | **14** |
| **Percentage %** | **78.6** | **0** | **0** | **21.4** | **14.3** | **21.4** | **0** | **0** | **7.1** | **0** | **14.3** | **21.4** | **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** |

**Statics PHM\_031**

**Spring 2020**

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

**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:**

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

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

**Note that due to the conditions of the corona, we only performed five weeks of Lectures. tutorials and experiments. The rest of the all activities were given through videos and power point presentations of the lectures, tutorials and experiments where all materials were uploaded on LMS. Also online discussion with students through meetings by Microsoft Teams and Zoom were performed.**

1. **Student assessment:**

|  |  |
| --- | --- |
| **Method of assessment** | **Percentage of total** |
| **Written examination (Final+ mid-term)** | **85 %** |
| **Quizzes** | **5 %** |
| **Lab. + Attendance** | **10 %** |
| **Total** | **100 %** |

**Research Assignment: Due to conditions of Covid-19**

|  |  |
| --- | --- |
| **Method of assessment** | **Percentage of total** |
| **Research Assignment** | **100 %** |

**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:**

**There are no any available questionnaires for the course**