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| *Course report of* |
| **Dynamics – PHM\_032s\_Spring 2020** |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. **Title and code :**

|  |
| --- |
| **Dynamics – PHM\_032s** |

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**  |

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

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

## Statistical Information

**Research Assignment:**

|  |  |
| --- | --- |
| **No. of students attending the course:** | **1553** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **P** | **A** | **A-** | **B+** | **B** | **B-** | **C+** | **C** | **C-** | **D+** | **D** | **F** | **SUM** |
| **Students No.** | **1543** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **10** | **1553** |
| **Percentage %** | **99.4** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.6** | **100** |

**Improvement Exam:**

|  |  |
| --- | --- |
| **No. of students attending the course:** | **10** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **P** | **A** | **A-** | **B+** | **B** | **B-** | **C+** | **C** | **C-** | **D+** | **D** | **F** | **SUM** |
| **Students No.** | **6** | **1** | **0** | **2** | **1** | **0** | **0** | **0** | **1** | **0** | **1** | **4** | **10** |
| **Percentage %** | **60** | **10** | **0** | **20** | **10** | **0** | **0** | **0** | **10** | **0** | **10** | **40** | **100** |

## Professional Information

1. **Course Teaching:**

|  |  |  |
| --- | --- | --- |
| **Course Content** | **Total No. of Hours** | **Lecturer** |
| **Kinematics of particles** | **20** | **Dr. Hussein Elsayed** |
| **Relative Motion** | **4** | **Dr. Hussein Elsayed** |
| **Kinetics and Newton's second law of motion.** | **8** | **Dr. Hussein Elsayed** |
| **Midterm Exam** | **4** | **Dr. Hussein Elsayed** |
| **Work and Energy**  | **8** | **Dr. Hussein Elsayed** |
| **Impulse and Momentum**  | **16** | **Dr. Hussein Elsayed** |
| **Total**  | **60** | **Dr. Hussein Elsayed** |

Dynamics PHM\_032

Spring2019

|  |  |  |
| --- | --- | --- |
| **Week** | **Experiment** | **Laboratory** |
| **1** | Introduction to Dynamics Experiments | 1 |
| **2** | Linear motion Exp. Part(1)  | 1 |
| **3** | Linear motion Exp. Part(2)  | 1 |
| **4** | Linear motion Exp. Part(3) | 1 |
| **5** | Linear motion Exp. Part(4)  | 1 |
| **6** | Motion in Two Dimensions Part(1) | 1 |
| **7** | Motion in Two Dimensions Part(2) | 1 |
| **8** | Motion in Two Dimensions Part(3) | 1 |
| **9** | Motion in Two Dimensions Part(4) | 1 |
| **10** | Projectiles Exp. Part(1) | 1 |
| **11** | Projectiles Exp. Part(2) | 1 |
| **12** | Projectiles Exp. Part(3) | 1 |
| **13** | Projectiles Exp. Part(4) | 1 |
| **14** | Practical Exam | 1 |
| **15** | Practical Exam | 1 |
|  | Total number of hours | 15 |

**Note that due to the conditions of the corona, we only performed five weeks of experiments, and the rest of the experiments were given through videos of the experiments that were uploaded on LMS.**

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

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

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

**Momentum is not taught in fully details because It was so tough for senior Architectural Students**

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

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

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

**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 %** |
| **Practical + Attendance** | **10 %** |

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

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

 **Members of examination committee**

**i– Dr. Hussain Elsayed Mohamed Hussain and 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**