*Course report of*

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| **Probability and Statistics - PHM 111s fall 2019** |

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| **University Ain Shams** | **Faculty** **Engineering** |

**A- Basic Information**

1. **Title and code:**

**Probability and Statistics - PHM 111s fall 2019**

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

**All 12 Engineering Programs**

**3. Year/ Level of programs:** 1st year (First and Second Semester)

**1. Units/Credit hours:**

1. Lectures 2 hours per week
2. Tutorial/Practical 2 hours per week
3. Total 4 hours per week

**2. Names of lecturers contributing to the delivery of the course**

1. Prof. Dr. [Hamdy Mohamed Ahmed Mahmoud](https://portal.eng.asu.edu.eg/users/164105)
2. Dr. [Ahmed Mohamed Ibrahim El-Rafei](https://portal.eng.asu.edu.eg/users/492)
3. Dr. [Mahmoud Abdel Moamin](https://portal.eng.asu.edu.eg/users/507)
4. Dr. Rabab Moustafa El-Hassani
5. Dr. [Noha Medhat Kamel Abbass](https://portal.eng.asu.edu.eg/users/530)

Course coordinator Dr. Rabab Moustafa El-Hassani

External evaluator ………N/A……………………

**B- Statistical Information**

No. of students attending the course: 1448

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| Students completing the course | | Number | Percentage % |
| Results | Passed | 1348 | 93.1 |
| Failed | 100 | 6.9 |
| Grading Of  successful students | Excellent | 165 | 11.4 |
| Very Good | 598 | 41.3 |
| Good | 392 | 27.1 |
| Pass | 193 | 13.3 |

**C- Professional Information**

**C.1 – Course Lectures**

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| **Course Content (Part I)** | **Lecture**  **Hours** | **Lecturer** |
| The Nature of Probability and Statistics: Data Collection and Sampling. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Frequency Distributions and Graphs (1): Organizing Data, Histograms. | **3** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Frequency Distributions and Graphs (2): Graphs. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Data Description (1): Measures of Central Tendency. | **3** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Data Description (2): Measures of Variation and Position. | **3** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Probability and Counting Rules (1): Sample Spaces and Probability, Addition Rules. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Probability and Counting Rules (2): Multiplication Rules, Conditional Probability and Counting Rules. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Hamdy Mohamed Ahmed Mahmoud |
| Discrete Random Variables and Probability Distributions. | **3** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Noha Medhat Kamel Abbass |
| Continuous Random Variables and Probability Distributions. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Noha Medhat Kamel Abbass |
| Examples of Continuous Probability Distributions | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Noha Medhat Kamel Abbass |
| Joint Probability Distribution. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Noha Medhat Kamel Abbass |
| Mathematical Expectation, Variance, Covariance and Correlation of two Random Variables. | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Noha Medhat Kamel Abbass |
| General Revision | **2** | Ahmed Mohamed Ibrahim El-Rafei, Mahmoud Abdel Moamin,  Rabab Moustafa I. El-hassani,  Noha Medhat Kamel Abbass |
| Total Lectures Hours | **30** |

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

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

Reasons in detail for not teaching any topic

N/A……………………………………….

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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

Practical training/ laboratory:

Seminar/Workshop:

Class Activity:

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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 %**

Practical/laboratory work  **0 %**

Practical/laboratory work  **20 %**

Other assignments/class work **20%**

Total **100 %**

Members of examination committee

1. Prof. Dr. [Hamdy Mohamed Ahmed Mahmoud](https://portal.eng.asu.edu.eg/users/164105)
2. Dr. [Ahmed Mohamed Ibrahim El-Rafei](https://portal.eng.asu.edu.eg/users/492)
3. Dr. [Mahmoud Abdel Moamin](https://portal.eng.asu.edu.eg/users/507)
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5. Dr. [Noha Medhat Kamel Abbass](https://portal.eng.asu.edu.eg/users/530)

Role of external evaluator

…… **N/A** ………………………………

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**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate

**5- Administrative constraints**

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

**N/A** …………………….. …………………………….

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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:**

**N/A** …………………….. …………………………….

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**9- Action plan**

**Actions required Completion date Person responsible**

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| A+ | 11 |
| A | 53 |
| A- | 101 |
| B+ | 206 |
| B | 198 |
| B- | 194 |
| C+ | 154 |
| C | 129 |
| C- | 109 |
| D+ | 97 |
| D | 96 |
| F | 100 |
| absent | 22 |
|  | 1448 |