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| --- | --- |
| *Course report of* | |
| **Mathematics (1) – PHM 012s –** **Spring 2020** | |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. Title and code :

|  |
| --- |
| **MAthematics (1) – PHM 012s** |

1. Program on which the course is given :

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

1. Year/Level of programs :

|  |
| --- |
| 1st Level Spring Semester |

1. Units/Credit Hours

|  |  |
| --- | --- |
| ( i ) Lecture : | 3 |

|  |  |
| --- | --- |
| ( ii ) Tutorial/Practical : | 2 |

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

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

|  |  |
| --- | --- |
| i - | Dr. Hussein Abdelsalam |

|  |  |
| --- | --- |
| Course coordinator: | Dr. Hussein Abdelsalam |

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

## Statistical Information

|  |  |
| --- | --- |
| No. of students attending the course: | 255 |

**Statistics for written exam students**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | A- | A**+** | B | B- | B**+** | C | C- | C**+** | D | D**+** | F | SUM |
| Students No. | - | - | - | 2 | 1 | 4 | 2 | - | - | 4 | 1 | 4 | 18 |
| Percentage % | - | - | - | 11.11 | 5.56 | 22.22 | 11.11 | - | - | 22.22 | 5.56 | 22.22 | 100 |

## Statistics for Report exam students

|  |  |  |  |
| --- | --- | --- | --- |
|  | Pass | Fail | Sum |
| Students No. | 240 | 0 | 240 |
| Percentage % | 100 | 0 | 100 |

## Professional Information

1. **Course Teaching:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Content (Part I)** | **Part (II)** | No. of Hours | Lecturer |
| Review of Calculus | Conic sections (Parabola) | **3+2** | All Instructors |
| Chain Rule | **3+2** | All Instructors |
| Indefinite Integrals and Fundamental Theorem of Calculus. | Conic sections (Ellipse) | **3+2** | All Instructors |
| Inverse function. | **3+2** | All Instructors |
| Inverse Trigonometric Functions. (Definition – Graphs – Evaluating without calculator) | Conic sections (Hyperbola) | **3+2** | All Instructors |
| Inverse trignogeometric functions (derivatives and integrals). | **3+2** | All Instructors |
| Hyperbolic Functions. (Definition – Graphs – Derivatives – Integrals ) | Conic sections (Rotation of Axis) | **3+2** | All Instructors |
| Inverse Hyperbolic Functions. (Log Formulas – Graphs – Derivatives – Integrals )-Midterm | **3+2** | All Instructors |
| Inverse Hyperbolic Functions. (Log Formulas – Graphs – Derivatives – Integrals )-Part 2 | **3+2** | All Instructors |
| Indeterminate Forms and L’Hopital’s Rule. | Infinite Series  (Part 1) | **3+2** | All Instructors |
| Techniques of Integration: By Parts and Wallis Formulas. | **3+2** | All Instructors |
| Techniques of Integration: Trigonometric and Hyperbolic Integrals. | Infinite Series  (Part 2) | **3+2** | All Instructors |
| Techniques of Integration: Integration of Rational Functions. | **3+2** | All Instructors |
| Techniques of Integration: Trigonometric and Hyperbolic Substitution. | **3+2** | All Instructors |
| General Revision | General Revision |  |  |

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

**>90 % √ 70-90 % <70%**

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

All topics were taught except (Rotation of axis: self-learning) for Pandemic reasons Corona virus.

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

N/A

**Teaching and learning methods:**

Lectures and electronic lectures: **√**

Practical training/ laboratory:

Seminar/Workshop:

Class Activity: **(Tutorials)**  **√**

**Case Study:**

Before pandemic conditions face to face lectures had been performed for the first 6 weeks. Then electronic lectures and recorded videos had been applied for the rest of the semester. But, I realized that mathematics teaching online is little bite hard for difficulty of communication and contacts between teacher and students. Which in turn affect student full understanding for the course items and their different aims.

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 | 100 % |
| Oral examination | 0 % |
| Practical/laboratory work | 0 % |
| Other assignments/class work | 0 % |

**Members of examination committee**

Dr. Hussein Abdelsalam

**Role of external evaluator**

N/A

**Facilities and teaching materials:**

Totally adequate

Adequate to some extent **√**

Inadequate

List any inadequacies

1. **Administrative constraints:**

List any difficulties encountered

No difficulties

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

**Response of Course Team**

No Comments

**Comments from external evaluator(s):**