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| --- | --- |
| *Course report of* | |
| **Mathematics (2) – PHM 013s –** **Fall 2019** | |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. Title and code :

|  |
| --- |
| **Mathematics (2) – PHM 013s** |

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: | 281 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | A- | A**+** | B | B- | B**+** | C | C- | C**+** | D | D**+** | F | SUM |
| Students No. | 3 | 7 | 1 | 14 | 22 | 11 | 21 | 31 | 18 | 63 | 17 | 73 | 281 |
| Percentage % | 1 | 2.4 | 0.3 | 5 | 8.9 | 4.5 | 7.5 | 10.9 | 6.3 | 22.3 | 6 | 25 | 100 |

## Professional Information

1. **Course Teaching:**

|  |  |  |
| --- | --- | --- |
| Course Content | No. of Hours | Lecturer |
| Vectors and geometry of space, quadratic surfaces. | **3+2** | All Instructors |
| Functions of several variables and partial derivatives. | **3+2** | All Instructors |
| Applications of partial derivatives. | **3+2** | All Instructors |
| Double integrals over rectangular regions. | **3+2** | All Instructors |
| Double integrals over general regions. | **3+2** | All Instructors |
| Applications of double integrals. | **3+2** | All Instructors |
| Triple integrals. | **3+2** | All Instructors |
| Triple integrals in cylindrical and spherical coordinates. | **3+2** | All Instructors |
| Applications of triple integrals. | **3+2** | All Instructors |
| Line integrals. | **3+2** | All Instructors |
| Green’s theorem. | **3+2** | All Instructors |
| Linear systems of equations. | **3+2** | All Instructors |
| Matrix algebra. | **3+2** | All Instructors |
| Eigen values and Eigen vectors. | **3+2** | All Instructors |
| Applications of Eigen values and Eigen vectors. | **3+2** | All Instructors |

**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

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

N/A

**Teaching and learning methods:**

Lectures: **√**

Practical training/ laboratory:

Seminar/Workshop:

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

**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 | 80 % |
| Oral examination | 0 % |
| Practical/laboratory work | 0 % |
| Other assignments/class work | 20 % |

**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):**