|  |
| --- |
| *Course report of* |
|  Theory of Structures - CES 112 - 2017-2018 |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. Title and code :

|  |
| --- |
| Theory of Structures - CES 112 |

1. Programme on which the course is given :

|  |
| --- |
| B.Sc. in Mechanical Engineering Department |

1. Year/Level of programmes :

|  |
| --- |
| 2nd year Mechanical –first Semester |

1. Units/Credit Hours

|  |  |
| --- | --- |
| ( i ) Lecture : | 2 |

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

|  |  |
| --- | --- |
| ( iii ) Total : | 4 |

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

|  |  |
| --- | --- |
| i - | Dr. Mahmoud El Ghorab |

1. Course Coordinator :

|  |  |
| --- | --- |
| i - | Dr. Mahmoud El Ghorab |

1. External evaluator :

|  |  |
| --- | --- |
| i - | --- --- --- |

## Statistical Information

|  |  |
| --- | --- |
| No. of students attending the course: | 369 |

|  |  |  |
| --- | --- | --- |
|  | Number | Percentage (%) |
| Students completing the course | 369 | 100 |
| Results | Passed | 334 | 90.51 |
| Failed | 35 | 9.49 |
| Grading of successful students | Excellent | 48 | 13.00 |
| Very Good | 64 | 17.30 |
| Good | 85 | 23.00 |
| Pass | 137 | 37.10 |

## Professional Information

1. **Course Teaching:**

|  |  |  |
| --- | --- | --- |
| Course Content | No. of Hours | Lecturer |
| Introduction to structure systems | 2 | Dr. Mahmoud El Ghorab |
| Types of loads and supports | 2 | Dr. Mahmoud El Ghorab |
| Determination of reactions in Beams, Frames, Trusses | 2 | Dr. Mahmoud El Ghorab |
| Stability of structures | 2 | Dr. Mahmoud El Ghorab |
| Determination of internal forces in Beams | 2 | Dr. Mahmoud El Ghorab |
| Determination of internal forces in ( Trussed – beams ) | 2 | Dr. Mahmoud El Ghorab |
| Determination of internal forces in Frames | 2 | Dr. Mahmoud El Ghorab |
| Determination of internal forces in Plane Trusses | 2 | Dr. Mahmoud El Ghorab |
| Properties of plan area | 2 | Dr. Mahmoud El Ghorab |
| Straining actions | 2 | Dr. Mahmoud El Ghorab  |
| Normal stresses in homogeneous elastic bodies | 2 | Dr. Mahmoud El Ghorab |
| Shear stresses | 2 | Dr. Mahmoud El Ghorab |

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

**>90 % X 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………………………………………………………………………………………….

………………………………………………………………………………………………

………………………………………………………………………………………………

………………………………………………………………………………………………

1. **Teaching and learning methods:**

 Lectures: **X**

Practical training/ laboratory:

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:

………………………………………………………………………………………………

………………………………………………………………………………………………

1. **Student assessment:**

|  |  |
| --- | --- |
| **Method of assessment** | **Percentage of total** |
| Written examination | 70 % |
| Oral examination | 0 % |
| Practical/laboratory work | 0 % |
| Other assignments/class work | 30 % |

**Members of examination committee**

i - Dr. Mahmoud El Ghorab

**Role of external evaluator**

N/A………………………………………………………………………………………….

………………………………………………………………………………………………

1. **Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate **X**

List any inadequacies

* 1. Data Show either not available or not properly working
	2. Use of blackboard and chalk is very inconvenient.
	3. No internet connection is available for students to do research and web browsing.
1. **Administrative constraints:**

List any difficulties encountered

 No difficulties

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

**Response of Course Team**

List any criticisms

…No criticism.…….………..……………………………….

………………………………………………………………………………………………

1. **Comments from external evaluator(s): Response of course team**

………**N/A** ………………. …………………………….

……….……………..……. …………………………….

…………………………… …………………………….

……………………………. …………………………….

…………………………… …………………………….

1. **Course enhancement: Progress on actions identified in the previous year’s action plan:**

………**N/A**.……….

1. **Action plan**

|  |  |  |
| --- | --- | --- |
| **Action required** | **Completion date** | **Person responsible** |
| ………**N/A** …….. | .…**N/A**…. | ….……**N/A**……… |