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| *Course report of* | |
| Theory of Structures - CES 112 - 2015-2016 | |
| 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. Wael El Badrawy |

1. Course Coordinator :

|  |  |
| --- | --- |
| i - | Dr. Wael El Badrawy |

1. External evaluator :

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

## Statistical Information

|  |  |
| --- | --- |
| No. of students attending the course: | 399 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | Number | Percentage (%) |
| Students completing the course | | 399 | 100 |
| Results | Passed | 357 | 89.47 |
| Failed | 42 | 10.53 |
| Grading of successful students | Excellent | 117 | 29.30 |
| Very Good | 69 | 17.30 |
| Good | 68 | 17.00 |
| Pass | 103 | 25.80 |

## Professional Information

1. **Course Teaching:**

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

**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………………………………………………………………………………………….

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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. Wael El Badrawy

**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** ………………. …………………………….

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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**……… |