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| *Course report of* |
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| **Machine Design – MDP 361 – 2016** |

 |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. Title and code:

|  |
| --- |
| **Machine Design - MDP361** |

1. Programme on which the course is given:

|  |  |
| --- | --- |
|

|  |
| --- |
| B. Sc. Mechanical Engineering (Production Engineering) |

 |

1. Year/Level of programmes:

|  |
| --- |
| 4th year, First/Second semesters |

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 - |  Prof. Samy J. Ebeid |

|  |  |
| --- | --- |
| ii - | Dr. Moustafa Mahmoud |

|  |  |
| --- | --- |
| Course coordinator: | Prof. Samy J. Ebeid |

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

## Statistical Information

|  |  |
| --- | --- |
| No. of students attending the course: | 68 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Excellent | Very Good | Good | Pass | Poor | Very Poor | SUM |
| Students No. | 2 | 9 | 11 | 46 | 9 | 1 | **68** |
| Percentage (%) | 2.6 | 11.5 | 14.1 | 59 | 11.5 | 1.3 |  |

## Professional Information

1. **Course Teaching:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Course Content** | **Lecture****(hrs)** | **Tutorial****(hrs)** | **Total****(hrs)** | **Lecturer** |
| **1** | Clutches | **9** | **9** | **18** | Prof. SJ Ebeid |
| **2** | Flat Belt Drives | **2** | **2** | **4** | Prof. SJ Ebeid |
| **3** | V-Belt Drives | **2** | **2** | **4** | Prof. SJ Ebeid |
| **4** | Belt Drives - Tensioning Devices | **3** | **3** | **6** | Prof. SJ Ebeid |
| **5** | Variable Speed Drives | **10** | **10** | **20** | Prof. SJ Ebeid |
| **6** | Antifriction Bearings | **6** | **6** | **12** | Prof. SJ Ebeid |
| **7** | Sliding Bearings | **6** | **6** | **12** | Dr. M Mahmoud |
| **8** | Gearing | **2** | **2** | **4** | Dr. M Mahmoud |
| **9** | Gearing - Spur Gears | **5** | **5** | **10** | Dr. M Mahmoud |
| **10** | Gearing - Helical Gears | **3** | **3** | **6** | Dr. M Mahmoud |
| **11** | Gearing - Bevel Gears | **5** | **5** | **10** | Dr. M Mahmoud |
| **12** | Gearing - Worm Drives | **3** | **3** | **6** | Dr. M Mahmoud |
| **13** | Gear Units | **4** |  | **4** | Prof. SJ Ebeid |
| **13** | Computer Aided Design | **0** | **4** | **4** | Prof. SJ Ebeid |
|  | Total | **60** | **60** | **120** |  |

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

**>90 % X 70-90 % <70% 6**

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

Nearly all topics were taught

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

……………………………………………………………………………

**Teaching and learning methods:**

 Lectures: **X**

Practical training/ laboratory:

Seminar/Workshop: **X**

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 | 120 % |
| Oral examination | 0 % |
| Practical/laboratory work | 0 % |
| Other assignments/class work | 80 % |

**Members of examination committee**

 i - Prof. Samy J. Ebeid

 ii - Dr. Moustafa Mahmoud

**Role of external evaluator**

N/A……………….

1. **Facilities and teaching materials:**

Totally adequate

**X**

Adequate to some extent

Inadequate

List any inadequacies:

1. **Administrative constraints:**

List any difficulties encountered

 No difficulties

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

**All evaluations are above 50%**

**Response of Course Team**

List any criticisms

 Teaching facilities: The available facilities were the computer and data show.

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

N/A………………. …………………………….

……….……………..……. …………………………….