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| *Course report of* | |
| |  | | --- | | Machine Drawing- MDP 161 (16- 17) | | |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. Title and code :

|  |
| --- |
| Automatic Control – MDP 161 |

1. Program on which the course is given :

|  |  |
| --- | --- |
| |  | | --- | | Mechanical Engineering | |

1. Year/Level of program :

|  |
| --- |
| First Year |

1. Units/Credit Hours

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

|  |  |
| --- | --- |
| ( ii ) Tutorial/Practical : | 4 |

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

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

|  |  |
| --- | --- |
| i - | Prof/ Farid A. Tolbah |

|  |  |
| --- | --- |
| ii - | Dr Khatab Moh Khatab |

|  |  |
| --- | --- |
| iii - | Dr Ahmed Aly ; Dr. Mohammed Ibrahim Awad |

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| --- | --- |
| Course coordinator: | Prof./ Farid A. Tolbah |

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

## Statistical Information

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| --- | --- |
| No. of students attending the course: | 382 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Excellent | V. Good | Good | Pass | Weak | V. Weak | SUM |
| Students No. | 22 | 49 | 88 | 171 | 35 | 17 | 382 |
| Percentage (%) | 5.8 | 12.8 | 23 | 44.8 | 9.2 | 4.5 |  |

## Professional Information

1. **Course Teaching:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Topic No.** | **Week No.** | **Course Contents** | **Lect/Tutorials** | **Total** |
| **1** | **1** | **Introduction and course objectives ; DWG the water vent** | **1/3** | **4** |
| **2** | **2,3** | **The threaded joints ; DWG: Knuckle Joint - The control Handle** | **2/6** | **8** |
| **3** | **4,5** | **Standard threads; DWG: pulley&bracket(1) – pulley& bracket(2)** | **2/6** | **8** |
| **4** | **6** | **DWG: crane hook / eccentric** | **4** | **4** |
| **5** | **7** | **DWG: crank shaft / Rocking arm** | **4** | **4** |
| **6** | **8** | **DWG: stuffing box / Damper** | **4** | **4** |
| **7** | **9** | **DWG: Bearing(1) / Bearing(2)** | **4** | **4** |
| **8** | **10** | **Mid Term Exam.** | **4** | **4** |
| **9** | **11** | **DWG: grinding wheel drive/ Worm and worm gear** | **4** | **4** |
| **10** | **12** | **DWG: Machine vice(1) / Machine vice(2)** | **4** | **4** |
| **11** | **3 weeks** | **ACAD exercises for 3-D solid modeling of some planned exercises ; the exer. Are given in the notes.** | **12** | **12** |
| **12** | **16,17** | **Fits and tolerances; DWG: Hand press/Punching press** | **2/6** | **8** |
| **13** | **18,19** | **Fits and tolerances; DWG: transmission shaft/reciprocating mechanism** | **2/6** | **8** |
| **14** | **20,21** | **Dimensioning and geometrical tolerances; DWG: tail stock(1) / tail stock(2)** | **2/6** | **8** |
| **15** | **22** | **Mid- term Exam.** | **4** | **4** |
| **16** | **23** | **DWG: Rigid coupling / flexible coupling** | **4** | **4** |
| **17** | **24,25** | **Generation of working drawings; DWG: Non return valve(1) / Nun return valve(2)** | **2/6** | **8** |
| **18** | **26** | **DWG: safety valve(1) / Safety valve(2)** | **4** | **4** |
| **19** | **27** | **DWG: Tail stock(1) / Tail stock(2)** | **4** | **4** |
| **20** | **3 weeks** | **ACAD exercises for 3-D solid modeling of some planned exercises ; the exer. Are given in the notes.** | **12** | **12** |
|  |  | **Total Hours** | **120** | **120** |

**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 ……………………………………….

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

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

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**Teaching and learning methods:**

Lectures: **X**

Practical training/ laboratory:  **X**

Seminar/Workshop:

Class Activity: **(Tutorials)**  **X**

**Case Study: X**

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** |
| Assignments | 20 |
| Practical Laboratory Solidworks | 20 |
| Mid Term Exams | 40 |
| Written Final Exam | 120 |

**Members of examination committee**

i – Prof. Farid A. Tolbah

1. Dr. Khattab Mohamed Khattab.

**Role of external evaluator**

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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

**5-** **Student evaluation of the course:**

**Response of Course Team**

* 1. All drawing exercises have been transformed into Videos showing the assembly process and the students response is very great.
  2. We personally trained the majority of the staff to use Solid Works instead of ACAD.
  3. We bought 1000 license of the Solid Works Package and put it in action.

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**6- Comments from external evaluator(s): Response of course team**

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