*Course report of*

**Machine Construction – MDP 252 2017/2018**

# University: Ain Shams Faculty: Engineering

**Basic Information**

1. **Title and code :**

Machine Construction - MDP252

1. **Program on which the course is given :**

Main stream second year mechanical students

1. **Year/ Level of programmes :**

2nd year, First/Second semesters

* 1. **Units/Credit Hours**

( i ) Lecture :

4

2

2

( ii ) Tutorial /Practical : ( iii ) Total :

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

|  |
| --- |
| Associate prof. Dr. Ahmed M.Hussain |
| Prof.Tamer M.Elnady |
| Dr. Ayman Aly Abdelwahhab |
| ------------------------------- |
| ------------------------------- |
| ------------------------------- |
| ------------------------------- |
| ------------------------------- |

* + 1. -
    2. -
    3. -
    4. -
    5. -
    6. - viii -

**Course coordinator:**

Prof. Tamer Elnady

**External evaluator:**

N/A---- ---- ----

# B- Statistical Information

No. of students attending the course:

360

|  |  |  |  |
| --- | --- | --- | --- |
|  | | **Number** | **Percentage (%)** |
| **Students completing the course** | | 360 | 100 % |
| **Results** | Passed | 309 | 85.83 % |
| Failed | 51 | 14.17 % |
| **Grading Of successful students** | Excellent | 72 | 20 % |
| Very Good | 74 | 20.6 % |
| Good | 50 | 13.9 % |
| Pass | 113 | 31.4 % |

# C- Professional Information

**1-- Course Teaching:**

|  |  |  |
| --- | --- | --- |
| Topic | No. of Hours | Lecturer |
| Introduction | 4 | Prof. Tamer Elnady |
| Introduction to machine design | 4 | Prof. Tamer Elnady |
| Design Procedures | 4 | Dr Ahmed Hussain |
| Connections | 2 | Prof. Tamer Elnady |
| Surface Finish - Fits &Tolerance | 4 | Dr Ahmed Hussain |
| Fastenings | 4 | Prof. Tamer Elnady |
| Revits & Welding | 4 | Prof. Tamer Elnady |

|  |  |  |
| --- | --- | --- |
| Pre-stressed bolted joints under static a | 6 | Dr. Ahmed Hussien |
| Margin and Safety Factors | 4 | Dr. Ahmed Hussien |
| Construction of couplings | 4 | Dr. Ayman Aly |
| Design of shafts and keys | 2 | Dr. Ayman Aly |
| Sealing | 2 | Prof. Tamer Elnady |
| Projects | 4 | Prof. Tamer Elnady |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------ | ---- ---- | ------ ------ ------ ------ |
|  |  |  |

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

**Topics Taught as a percentage of the content specified**

>90% 70% - 90% <70 %

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

N/A

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

N/A------ ------ ------ ------ ------ ------ ------ ------ ------ -----

- ------ ------ ------ ------ ------ ------ ------ ------ ------ ------

------ ------ ------ ------ ------ ------ ------ ------ ------ ------ --

---- ------ ------ ------ ------ ------ ------ ------ ------ ------ ----

1. **Teaching and learning methods:**

Lectures  Practical training/laboratory  Seminar/Workshop  Class Activity 

**Case Study:**

Other assignments/homework

If teaching and learning methods were used other than, those specified, list and give reasons

E Learning and doing experiments, to connect students with modern methods of

learning. - ------ ------ ------ ------ ------ ------ ------

------ ------ ------ ------ ----

1. **Student assessment:**

|  |  |
| --- | --- |
| Methods of assessment | Percentage of total |
| Written examination | 60 % |
| Oral examination | 0 % |
| Practical/laboratory work | 5% |
| Other assignments/class work | 35 % |

Members of examination committee

Role of external evaluator:

N/A------ ------ ------ ------ ------ ------

1. **Facilities and teaching materials:**

Totally adequate  Adequate to some extent  Inadequate 

List any inadequacies:

Data Show was not always available and problems with the microphone in addition to an inconvenient blackboard.

Some problems with Data Show system.

1. **Administrative constraints:**

N/A

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

|  |  |
| --- | --- |
| **Comment** | **Response of course Team** |
|  | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |

1. **Comments from external evaluator(s)**

|  |  |
| --- | --- |
| **Comment** | **Response of course Team** |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |
| ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ | ------ ------ ------ ------ ------ ------  ------ ------ ------ ------ ------ ------ |

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