*Course report of*

**Maintenance Planning & Scheduling – MDP 331, spring 2021**

# University: Ain Shams Faculty: Engineering

**Basic Information**

1. **Title and code :**

Maintenance Planning & Scheduling – MDP 331

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

Mechanical Engineering program (Design and Production)

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

3

* 1. **Units/Credit Hours**

( i ) Lecture :

|  |
| --- |
| 2 |
| 1 |
| 3 |

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

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

|  |
| --- |
| Prof. Islam Helaly |
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**Course coordinator: External evaluator:**

Prof. Islam Helaly

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# Statistical Information

**MDP 484**

No. of students attending the course:

39



# Professional Information

**1-- Course Teaching:**

| No | Course Content | Lecture  (hrs) | Tutorial  (hrs) |
| --- | --- | --- | --- |
| **1** | Basic Concepts of maintenance management | **2** | **0** |
| **2** | Organizing maintenance operations | **2** | **2** |
| **3** | Maintenance planning and scheduling | **6** | **3** |
| **4** | Spare parts and assemblies’ management and planning | **4** | **2** |
| **5** | Maintenance operation engineering and industrial safety in maintenance operations | **3** | **1** |
| **6** | Total Productive Maintenance (TPM) | **3** | **1** |
| **7** | Equipment effectiveness | **2** | **1** |
| **8** | High manufacturing efficiencies and safe work environment | **3** | **2** |
| **9** | Different approaches to Equipment Effectiveness (OEE) | **3** | **2** |
| **10** | Understanding Six Major Equipment Losses. | **2** | **1** |
| Total Number of Hours | | **30** | **15** |

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

>90% 70% - 90% <70 %

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

There is no topic that has not been taught

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

* 1. **Teaching and learning methods:**

Lectures ‏ے Practical training/laboratory ‏ے Seminar/Workshop ‏ے Class Activity ‏ے

Class activity on line except exams

**Case Study:**

Other assignments/homework

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

Due to Corona pandemic, teaching was made online using Microsoft TEAMS system. Solved examples were also prepared especially for that purpose such that the students can have better understanding of the course material. All assignments were sent through emails, corrected and sent back to students to make necessary comments. Exams were held on class. Each student group was given certain topic in maintenance subject to do a research and to submit a report on the subject. In addition each group was assigned to study certain case study related to maintenance activities computerization and to present a simple software addressing maintenance planning activities. Part of the tutorial was devoted for discussion of different subjects where progress marks were taken for each one of the students. In general, the quizzes were replaced by the students reading and reporting, case studies and class discussion (progress follow-up).

**Student assessment:**

|  |  |
| --- | --- |
| Methods of assessment | Percentage of total |
| Written examination | 40 % |
| Oral examination | 0 % |
| Practical/laboratory work | 0 % |
| Other assignments/class work | 60 % |

**Members of examination committee**

Prof. Islam Helaly

Prof. Amin M. K. Elkharbotly

**Role of external evaluator:**

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* 1. **Facilities and teaching materials:**

Totally adequate ‏ے

Adequate to some extent ‏ے

Inadequate ‏ے

List any inadequacies:

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* 1. **Administrative constraints:**

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

No negative feedback

* 1. **Comments from instructor**

No negative feedback

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

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