*Course report of*

**Operations Research – MDP 455, Fall 2020**

# University: Ain Shams Faculty: Engineering

**Basic Information**

1. **Title and code :**

Operations Research – MDP 455

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

design & Production Engineering

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

4th year Design & Production Engineering

* 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. Amin Mohamed K. Elkharbotly |
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**Course coordinator: External evaluator:**

Prof. Amin Mohamed K. Elkharbotly

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# Statistical Information

**MDP 484**

No. of students attending the course:

50

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A+ | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | F | SUM |
| Students No. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percentage (%) |  |  |  |  |  |  |  |  |  |  |  |  | 100% |

**MANF598**

No. of students attending the course:

1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A+ | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | F | SUM |
| Students No. |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| Percentage (%) |  |  |  |  |  |  |  |  |  |  |  |  | 100% |

# Professional Information

**1-- Course Teaching:**

| **No** | **Course Content** | **lecture** |
| --- | --- | --- |
| 1 | Intro to OR and Problem Formulation | **2** |
| 2 | Problem Formulation and Graphical Solution and Algebraic solution | **4** |
| 3 | Simplex Method for Linear Programming | **4** |
| 4 | Duality in Linear Programming | **4** |
| 5 | Sensitivity Analysis in Linear Programming | **4** |
| 6 | Assignment and Transportation Models | **4** |
| 7 | Transshipment Problem. | **4** |
| 8 | Network Models: Maximal Flow Problem, Shortest Route Problem and Minimal Spanning problems | **4** |
| Total Hours | | 30 |

**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 (online) ‏ے - Practical training/laboratory ‏ے - Seminar/Workshop ‏ے - Class Activity (Classroom+2 sessions online) ‏ے

**Case Study:**

Other assignments/homework

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

* 1. **Student assessment:**

|  |  |
| --- | --- |
| Methods of assessment | Percentage of total |
| Written examination | 70 % |
| Oral examination | 0 % |
| Practical/laboratory work | 0 % |
| Other assignments/class work | 30 % |

**Members of examination committee**

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:**

N/A on the portal

* 1. **Comments from instructor**

No feedback

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

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