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| *Course report of* | |
| **Quality control –MDP 422 Fall 2019** | |
| University: Ain Shams | Faculty: Engineering |

## Basic Information

1. Title and code :

|  |
| --- |
| MDP 422: Quality control |

1. Program on which the course is given :

|  |  |
| --- | --- |
| |  | | --- | | Design and Production Engineering Program | |

1. Year/Level of programs :

|  |
| --- |
| Fall 2018/ 4th Production |

1. Units/Credit Hours

|  |  |
| --- | --- |
| ( i ) Lecture : | 2 |

|  |  |
| --- | --- |
| ( ii ) Tutorial/Practical : | 2 |

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

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

|  |  |
| --- | --- |
|  | Dr. Ghada Essam Eldeen Shedeed  Dr. Ismail Hafez |

|  |  |
| --- | --- |
| Course coordinator: | Prof. Adel Mohamed Ibrahim |

|  |  |
| --- | --- |
| External evaluator: | N/A |

## Statistical Information

|  |  |
| --- | --- |
| Total number of students | 37 |

|  |  |  |
| --- | --- | --- |
| Grade | Number | Percentage |
| Excellent |  |  |
| Very good |  |  |
| Good |  |  |
| Acceptable |  |  |
| Weak |  |  |
| Very weak |  |  |
| Total | 37 |  |

## Professional Information

1. **Course Teaching:**

| **No** | **Course Content** | **Lecture**  **(hours)** | **Tutorial** | **Lecturer** |
| --- | --- | --- | --- | --- |
| **1** | Introduction to quality (introducing new terminologies, quality definitions and concepts.) | **3** | **4** | **Dr. Ghada Shedeed** |
| **2** | Why statistics is so important to quality? and estimation theory | **2** | **2** | **Dr. Ghada Shedeed** |
| **3** | Statistical Process Control Philosophy and Techniques (the Magnificent Seven SPC problem-solving tools) | **4** | **4** | **Dr. Ghada Shedeed** |
| **4** | Theory of control charts and variations | **4** | **4** | **Dr. Ghada Shedeed** |
| **5** | Control Charts for Variables | **6** | **6** | **Dr. Ghada Shedeed** |
| **6** | Control Charts for Attributes | **5** | **6** | **Dr. Ghada Shedeed** |
| **7** | Acceptance Sampling | **6** | **4** | **Dr. Ghada Shedeed** |
|  | **Total** | **30** | **30** |  |

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

**>90 % yes 70-90 % <70%**

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

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

1. **Teaching and learning methods:**

Lectures: **X**

Practical training/ laboratory:

Seminar/Workshop:

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

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

* Students were asked to use an available software trial version to solve what they have learned during the semester. So they can utilize the most widely used statistics and quality control software in solving industry and service quality related real case studies.

1. **Student assessment:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment method** | **Description** | **Week No** | **Weight (%)** |
| **Written exam** | Quizzes | 7, 9 | 15% |
| **Written exam** | Mid-Term Exam | 9 |
| **Assignments and reports** | In class activity, reports, assignments |  | 10% |
| **Attendance** | Absence | 1-15 | 5% |
| **Written exam** | Final Exam |  | 70% |
| Total | | | 100% |

**Members of examination committee**

Dr. Ghada E. Shedeed

**Role of external evaluator**

N/A

1. **Facilities and teaching materials:**

Totally adequate

Adequate to some extent **X**

Inadequate

List any inadequacies:

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

Not available on the IMS

**Action plan, for next year, can be summarized as follows:**

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

………**N/A** ………………. …………………………….

……….……………..……. …………………………….

**8- Course enhancement:**

**Progress on actions identified in the previous year’s action plan:**

**Action**

A time, at the beginning of the course, was dedicated to the needed probability and statistics background.