**A. Basic Information**

|  |  |
| --- | --- |
| 1. **Title and Code:** | **Manufacturing Technology (3)** – **MDP 321** |
|  |  |
| 1. **Program in which the course is given:** | **Design and Production Engineering** |
|  |  |
| 1. **Year/ Level of program** | **Spring 2020 - Sophomore** |
|  |  |
| 1. **Units/ Credit Hours** 2. **Lecture** 3. **Tutorial** 4. **Lab** 5. **Total** | 4 per week  1 per week  2 per week  7 per week |
|  |  |
| 1. **Lecture:** |  |
|  |  |
| 1. **Names of Lecturers contributing to the delivery of the course:** | Prof. Mohamed Hazem Abdellatif  Prof. Ahmed Moneed  Dr. Mohamed Adel Rizk  Dr. Mahmoud Zakaria |
|  |  |
| 1. **Course coordinator:** | Prof. Ahmed Moneeb |
|  |  |
| 1. **External Evaluator:** |  |

**B. Statistical Information**

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| --- | --- |
| **No. of students attending the course** | 52 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | ***Number*** | ***Percentage/Attendee*** |
| **Students completing the course** | | 52 | 100% |
| **Results** | Passed | 52 | 100% |
| Failed | 0 | 0% |
| **Grading of students** | A+ | 0 | 0% |
| A | 0 | 0% |
| A- | 0 | 0% |
| B+ | 0 | 0% |
| B | 0 | 0% |
| B- | 0 | 0% |
| C+ | 0 | 0% |
| C | 0 | 0% |
| C- | 0 | 0% |
| D+ | 0 | 0% |
| D | 0 | 0% |
| F | 0 | 0% |

**C. Professional Information**

1. **Course Teaching**
2. **Lectures:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Topics** | **Lecture hours** | ***Lecturer*** |
| 1 | General Machining Types | 4 | Prof. Mohamed Hazem Abdellatif  Prof. Ahmed Moneed  Dr. Mohamed Adel Rizk  Dr. Mahmoud Zakaria |
| 2 | Tolerances and Allowances | 4 |
| 3 | Capstan and Turret Lathes | 4 |
| 4 | Milling Operations | 4 |
| 5 | Gear Cutting Operations | 4 |
| 6 | Grinding Operations | 4 |
| 7 | Electrochemical and electro-discharge machining | 4 |
| 8 | Introduction to Forming Processes | 2 |
| 9 | Forging Processes | 2 |
| 10 | Roll Pass Design | 2 |
| 11 | Extrusion Processes | 2 |
| 12 | Drawing Processes | 2 |
| 13 | Forming methods for polymers | 4 |
| 14 | High energy rate forming processes | 6 |
| 15 | Powder metallurgy | 6 |
| 16 | Ceramic and composite materials | 6 |
|  | **TOTAL** | 60 |

1. **Tutorials:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Exercise** | **Tutorial hours** | **Lab** | **Instructor** |
| 1 | Tolerances and Allowances | 3 |  | Prof. Mohamed Hazem Abdellatif  Prof. Ahmed Moneed  Dr. Mohamed Adel Rizk  Dr. Mahmoud Zakaria |
| 2 | Capstan and Turret Lathes |  | 6 |
| 3 | Milling Operations |  | 3 |
| 4 | Gear Cutting Operations |  | 6 |
| 5 | Grinding Operations |  | 3 |
| 7 | Introduction to Forming Processes | 3 |  |
| 8 | Forging Processes |  | 3 |
| 9 | Roll Pass Design | 3 |  |
| 10 | Extrusion Processes |  | 3 |
| 11 | Drawing Processes |  |  |
| 13 | High energy rate forming processes | 3 |  |
| 14 | Powder metallurgy | 3 |  |
| 15 | Ceramic and composite materials |  | 3 |
|  | **TOTAL** | **15** | 30 |

**Due to COVID-19 lockdown, the lab activities were stopped and included in the final research project**

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

 

**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:**









Due to COVID-19 lockdown, lectures, tutorials and labs were given online (LMS and google classroom)

**Case Study:**

Other assignments/homework: Mini Project

Due to COVID-19 lockdown, the mini project has been cancelled

1. **Student assessment:**

|  |  |
| --- | --- |
| ***Methods of assessment*** | ***Percentage of total*** |
| Final research examination | **65%** |
| Student Activities: assignments/class work/Case study | **35%** |

Due to the COVID19 lock down and in accordance with the supreme council of Egyptian universities guidelines the students’ evaluation is done based on PASS/FAIL and no grades are given and no course work of any type is considered.

Members of examination committee: 1- Prof. [Mohamed](https://portal.eng.asu.edu.eg/users/287) Hazem Abdellatif

2- Prof. Ahmed Moneeb

3- Dr. [Mohamed](https://portal.eng.asu.edu.eg/users/259) Adel Rizk

4- Dr..Mahmoud Zakaria



Role of external evaluator:



1. **Facilities and teaching materials:**







**List any inadequacies:**

1. **Administrative constraints:**

**Student evaluation of the course:**

**N/A**

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:**



1. **Action plan**

|  |  |  |
| --- | --- | --- |
| ***Action required*** | ***Completion date*** | ***Person responsible*** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. **Questionnaire statistics:**

Not applicable this semester

1. **Feedback:**