*Course Report of*

**Structure and Properties of Materials MDP 151- Fall 2020**

**University: Ain Shams Faculty: Engineering**

**A- Basic Information**

**1. Title and code: Structure and Properties of Materials MDP 151**

**2. Programme(s) on which this course is given:** Sophomore Mechanical

**3. Year/ Level of programmes:** Sophomore Students (2nd Year-Level 3)

**4. Units/Credit hours: 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lecture:**  **Tutorial:** | 2  1 | **Practical:** | 1 |
| **Total (hrs):** | 4 |

**5. Names of lecturers contributing to the delivery of the course**

Course coordinator: Ahmed Elsabbagh

External evaluator: N/A

**B- Statistical Information**

No. of students attending the course: 229 100 %

No. of students completing the course: 226 99 %

**Results:**

Passed: **211 (92.2 %)** Failed: **18 (7.8 %)**

**Grading of successful students:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 Research report students (four of them C, 11 are P)  6 written exam students (A and 4 B- and 1 C)  3Fail do not undergo any type of evaluation   |  |  |  |  | | --- | --- | --- | --- | |  | Exam | Research | Total | | A | 1 |  | 1 | | B- | 4 |  | 4 | | C | 1 | 4 | 5 | | P |  | 11 | 11 | | F |  | 3 | 3 | |  |

**C- Professional Information**

**1 – Course teaching**

|  |  |  |
| --- | --- | --- |
| **Topics actually taught** | **No. of hours** | **Lecturer** |
| Classification of materials. | **4** | Ahmed Elsabbagh & others |
| Atomic bonding. | **4** | Ahmed Elsabbagh & others |
| Crystallinity of materials. | **4** | Ahmed Elsabbagh & others |
| Crystallinity of materials. | **4** | Ahmed Elsabbagh & others |
| Solidification of metals. | **4** | Ahmed Elsabbagh & others |
| Solidification of metals | **4** | Ahmed Elsabbagh & others |
| Phase diagram | **4** | Ahmed Elsabbagh & others |
| Mid Term | **4** | Ahmed Elsabbagh & others |
| Phase diagram\* | **4** | Ahmed Elsabbagh & others |
| Iron carbon diagram | **4** | Ahmed Elsabbagh & others |
| Iron carbon diagram | **4** | Ahmed Elsabbagh & others |
| Polymers | **4** | Ahmed Elsabbagh & others |
| Polymers | **4** | Ahmed Elsabbagh & others |
| Ceramics | **4** | Ahmed Elsabbagh & others |
| Mechanical Testing | **4** | Ahmed Elsabbagh & others |

Due to Covid 19, midterm is cancelled at its planned time and grouped with final written exam or research proposal

**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**

**2- Teaching and learning methods:**

|  |  |
| --- | --- |
| Lectures | **🟓** |
| Practical training/ laboratory | **🟓** |
| Seminar/workshop |  |
| Class Activity | **🟓** |
| Case Study |  |
| Other assignments/homework | **🟓** |

**3- Student assessment:**

|  |  |  |
| --- | --- | --- |
| **Method of assessment** | **Percentage of total** |  |
| Written examination\* | 40% |  |
| Oral examination | 5% |
| Written Midterm examinations\* | 25% |
| Practical/laboratory work | 10% |
| Other quizzes, assignments/class work | 20% |
| Total | 100% |  |

**Members of examination committee**

Ramadan Elgamsy

**Role of external evaluator:** N/A

**4- Facilities and teaching materials:**

|  |  |
| --- | --- |
| Totally adequate |  |
| Adequate to some extent | 🟓 |
| Inadequate |  |

List any inadequacies

**N/A**

**5- Administrative constraints:**

List any difficulties encountered: N/A

**6- Student evaluation of the course: Response of course team**

NA

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

……………**N/A**……………………. ……………**N/A**…………..

**8- Course enhancement**

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

|  |  |
| --- | --- |
| **Action** | **State whether or not completed and give reasons for non-completion** |
| **NA** | **N/A** |

**9- Action plan for academic year 2020– 2021**

|  |  |  |
| --- | --- | --- |
| **Actions required** | **Completion date** | **Person responsible** |
| **More digiltalization of the content without harming the practical part** | **NA** | **N/A** |

**Course coordinator:** Prof. Dr. Ahmed Elsabbagh;

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**Signature:** **Ahmed Elsabbagh, Date: Feb 3, 2020**