**Course Report for- Semester-Fall 2018**

**MEP 231: FLUID Dynamics**

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| Ain Shams University  Faculty of Engineering  Department of Mechanical Power Engineering | AIN |

#### **Course Report**

**A- Basic Information**

**1. Title and code:** FLUID Dynamics, MEP231

**2. Programmer(s) on which this course is given:**

Mechanical Engineering (Power. Mechatronics and

Automotive departments)

**3. Year/ Level of programmer:** Third Year

**Hours:** Lectures 4 Tutorial 2 Total 6

**4-Names of lecturers contributing to the delivery of the course**

Prof. Dr. Mohamed A El-Samanoudy, Dr. Yasser Saad Fangary

**5-**.Course co-coordinator: Prof. Dr. Mohamed A El-Samanoudy

External evaluator N/A ……………………………

**B-1- Statistical Information**

No. of students attending the course: No. 391

No. of students completing the course: No: 390 ( 100%)

**Results:**

Passed: No.% Failed: No.%

**Grading of successfulstudents:**

**B-2- Statistical Information**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Number of Students** | **Percentage %** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total Number** |  |  |
| **Failed students** |  |  |

**C- Professional Information**

**1 – Course teaching**

|  |  |  |
| --- | --- | --- |
| **Topics actually taught** | **No. of hours(Total)** | **Lecturer** |
| 1-Fundamental Concepts, Fluid Properties an Definitions | 8 | Prof. Dr. Mohamed A El-Samanoudy |
| 2-Fluid Statics, Manometers, Forces on submerged bodies, and Rotating Fluids | 16 | Prof. Dr. Mohamed A El-Samanoudy |
| 3- Basic Equations of Fluid Mechanics. | 14 | Prof. Dr. Mohamed A El-Samanoudy |
| 4-Dimensional Analysis and Similitude | 8 | Prof. Dr. Mohamed A El-Samanoudy |
| 5-Flow in Closed Conduits. | 22 | Prof. Dr. Mohamed A El-Samanoudy |
| 6-Compressible Flow | 12 | Dr. Yasser Saad Fangary |
| 7-Flow Over Immersed Bodies | 10 | Dr. Yasser Saad Fangary |

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

**>90 % x 70-90 % <70%**

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

N/A………………………. ……………………..

**2- Teaching and learning methods:**

Lectures: X

Practical training/ laboratory: X

Seminar/Workshop:

Class Activity: X

## Case Study:

Other assignments/homework:

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

**3- Student assessment:**

**Method of assessment Marks**

Written examination 90 Marks = 60%

Oral Examination 30 Marks = 20%

Written Midterm examination 15 Marks = 10%

Assignments. 5 MARKS

Practical/laboratory work 5 Marks

Attendance &class work 5 % 5 Marks

Total 150 Marks = (100 %)

**ILO’s table for final examination**

**Details**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Assessment | *a1* | *a2* | *a3* | *a4* | a5 | b1 | b2 | c1 | c2 | d1 | d2 |
| Final Exam(Questions 1) | *x* |  |  | *x* |  | x | x |  |  |  |  |
| Final Exam(Questions 2) | *x* | *x* | *x* |  |  | x | x |  |  |  |  |
| Final Exam(Questions 3) | *x* | *x* | *x* | *x* | x | x | x |  |  |  |  |
| Final Exam(Questions 4) | *x* |  |  |  | x | x | x |  |  |  |  |

Members of examination committee

**Prof. Dr. Mohamed A El-Samanoudy Prof.Dr. Nabil Abd El-Aziz and Dr. Yasser Saad Fangery**

Role of external evaluator

N/A………………………………………

**- Facilities and teaching materials:**

Totally adequate

**5- Administrative constraints**

List any difficulties encountered

**None**…………………………..

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

**Response of Course Team**

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As I expect the evaluation is quite good, although some students could not appreciate the value of laboratory work! They may have some case when they ask for some new and modern equipment. I agree with them.

**7- 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 State whether or not completed and give reasons for any non-completion**

N/A……………………………. …………………………….

**9- Action plan for academic year 2018– 2018**

**Actions required Completion date Person responsible**

**Course coordinator:** Prof. Dr. Mohamed A El-Samanoudy

**Signature:** Mohamed A El-Samanoudy**, Date:Jan,23, 2019**