

**Republic of Iraq**  
**Ministry of Higher**  
**Education and Scientific**  
**Research**  
**Supervision and Scientific**  
**Evaluation Apparatus**



**University: Shatt Al-Arab**  
**College: Engineering**  
**Department: Oil and Gas Engineering**  
**Stage: 1st stage**  
**Lecturer name: Khalid A. Subber**  
**Academic title: Assistant Lecturer**

## **Course Weekly Outline**

| <b>Week No.</b> | <b>Theoretical</b>      | <b>Experimental</b> |
|-----------------|-------------------------|---------------------|
| 1               | Introduction to physics |                     |
| 2               | units and dimensions    |                     |
| 3               | vectors                 |                     |
| 4               | Statics                 |                     |
| 5               | Kinematics              |                     |
| 6               | Body dynamics           |                     |
| 7               | Newton's laws of motion |                     |
| 8               | Work, energy and power  |                     |
| 9               | Momentum                |                     |
| 10              | Rotational motion       |                     |
| 11              | Harmonic motion         |                     |
| 12              | Flexibility             |                     |
| 13              | Fluids                  |                     |
| 14              | The heat                |                     |
| 15              | The sound               |                     |