Fluid Mechanics 1

Module Code: MAE4009-A
Academic Year: 2018-19
Credit Rating: 10
School: (OUT OF USE FROM 2018/9) School of Engineering
Subject Area: Mechanical and Automotive Engineering
FHEQ Level: FHEQ Level 4
Module Leader: Dr Peter Olley

Pre-requisites:
Co-requisites:

Contact Hours

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>22</td>
</tr>
<tr>
<td>Tutorials</td>
<td>4</td>
</tr>
<tr>
<td>Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Directed Study</td>
<td>69</td>
</tr>
<tr>
<td>Examinations</td>
<td>2</td>
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</table>

Availability Periods

<table>
<thead>
<tr>
<th>Occurrence</th>
<th>Location/Period</th>
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<tbody>
<tr>
<td>BDA</td>
<td>University of Bradford / Semester 1 (Sep - Jan)</td>
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Module Aims
To understand the basic concepts that describes the mechanical behaviour of fluids.

Outline Syllabus
1. Units and dimensions
2. Properties of fluids
3. Hydrostatics - forces on immersed surfaces
Module Learning Outcomes

On successful completion of this module, students will be able to...

1. Understand the principles that describe the mechanical behaviour of fluids.
2. Predict the mechanical behaviour of fluids for simple, well defined engineering applications.
3. To use data to predict engineering performance.

Learning, Teaching and Assessment Strategy

(1) Lectures to introduce and develop fundamental theories and describe application;
(2) Example classes to provide explanation of supplied tutorial questions; and
(3) Laboratory classes to develop basic skills.

Mode of Assessment

<table>
<thead>
<tr>
<th>Type</th>
<th>Method</th>
<th>Description</th>
<th>Length</th>
<th>Weighting</th>
<th>Final Assess'</th>
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<tbody>
<tr>
<td>Summative</td>
<td>Examination - closed book</td>
<td>Exam - 4 compulsory questions one based on laboratory activities</td>
<td>2 hours</td>
<td>100%</td>
<td>Yes</td>
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Legacy Code (if applicable)

ENG1303M

Reading List

To view Reading List, please go to rebus:list.