Bachelor of Mechanical Engineering

Introduction
Bachelor of Mechanical Engineering is a 4-year program, where students are expected to complete 136 credits of study before graduation. Students are also required to undergo industrial training for at least 10 weeks during the semester break in the Second Half of Year 3. The content and structure of the curriculum for this program has been designed in accordance with the requirements of stakeholders and objectives and learning outcomes that have been set. The main objective of this program is to produce graduates of trained engineers in mechanical engineering with additional knowledge in the field of manufacturing engineering.

Mechanical engineers are responsible for mechanical design, combustion and fuel technology, heat transfer, materials selection, manufacturing process, automatic control, security products and the impact of technology on society. Mechanical engineers also have to ensure that the design of a device is made with efficient, effective, dependable and economical. In addition, they inspire, plan, design and supervise manufacturing, distribution and operation of various types of devices, machines and systems for material processing, transportation, maintenance and other purposes.

Career Opportunities
Job opportunities for graduates in Mechanical Engineering is extensive and covers employers of small and medium organizations, multinational corporations and government departments. Mechanical industry provides jobs in the field of design, research and development, manufacturing, management, marketing, management, sales and technical services. Previous records show that the graduates of the Department of Mechanical and Manufacturing Engineering often get relevant jobs.
Admission Requirements

Bachelor of Mechanical Engineering (PK08)
8 Semesters

Fulfills the University General Requirements and Specific Programme Requirements:

a) A minimum CGPA of 2.80
b) A minimum of Band 3 in the Malaysian University English Test (MUET)
OR Credit in English Language subject at SPM level

c) And

<table>
<thead>
<tr>
<th>STPM Holder</th>
<th>KPM Matriculation / UM Science Foundation / UiTM Foundation / UPM Agricultural Science Foundation Holder</th>
<th>Diploma Holder / Equivalent</th>
</tr>
</thead>
</table>
| A minimum of Grade B (GP 3.00) in
- Mathematics T / Further Mathematics T
- Physics  | A minimum of Grade B (GP 3.00) in
- Mathematics/Engineering Mathematics;
AND
- Physics/Engineering Physics/Chemistry/Engineering Chemistry/Engineering Science/Mechanical Engineering Studies | A Diploma with a minimum CGPA of 2.80 in the appropriate field or other qualification approved by the UPM Senate. |

Curriculum (2016 – 2020):

The component of curriculum studies can be divided into three categories, namely general courses, core courses and elective courses:

<table>
<thead>
<tr>
<th>Component</th>
<th>EAC requirements (minimum total credit hours)</th>
<th>Curriculum of Bachelor of Mechanical Engineering</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Courses</td>
<td>No minimum total credit hours required</td>
<td>41</td>
<td>30.15%</td>
</tr>
<tr>
<td>Core Courses</td>
<td>90</td>
<td>83</td>
<td>61.03%</td>
</tr>
<tr>
<td>Elective Courses</td>
<td>12</td>
<td>12</td>
<td>8.82%</td>
</tr>
<tr>
<td>Total Credit</td>
<td>135</td>
<td>136</td>
<td>100%</td>
</tr>
</tbody>
</table>

Total credit hours: 136
Duration of study: 8 semester (4 years)
Fees:

<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
<th>Average cost of a student per year</th>
<th>Fees paid by a student per year*</th>
<th>Government subsidies to the student per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>Bachelor of Mechanical Engineering</td>
<td>RM26,315.00</td>
<td>RM4,489.00</td>
<td>RM21,826.00</td>
</tr>
</tbody>
</table>

*Fees for local students on first semester as at August 2, 2018 is RM2,637.00 (subject to change from time to time).

Persons to be contacted:

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