

## **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

<b>Bachelor of Mechanical Engineering (PK08)</b> 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		
<b>STPM Holder</b>	<b>KPM Matriculation / UM Science Foundation / UiTM Foundation / UPM Agricultural Science Foundation Holder</b>	<b>Diploma Holder / Equivalent</b>
A minimum of Grade B (GP 3.00) in <ul style="list-style-type: none"> <li>• Mathematics T / Further Mathematics T</li> <li>AND</li> <li>• Physics</li> </ul>	A minimum of Grade B (GP 3.00) in <ul style="list-style-type: none"> <li>• Mathematics/Engineering Mathematics;</li> <li>AND</li> <li>• Physics/Engineering Physics/Chemistry/Engineering Chemistry/Engineering Science/Mechanical Engineering Studies</li> </ul>	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:

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

**Total credit hours: 136**

**Duration of study: 8 semester (4 years)**

**Fees:**

Code	Program	Average cost of a student per year	Fees paid by a student per year*	Government subsidies to the student per year
64	Bachelor of Mechanical Engineering	RM26,315.00	RM4,489.00	RM21,826.00

\*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:**

**Assoc. Prof. Ts. Dr. Wan Zuha bin Wan Hasan**  
B.E.(UPM), M.Sc.(UPM), Ph. D (UKM), SMIEEE  
**Deputy Dean (Undergraduate Studies)**

Telephone: 603-89464365

E-mail: [wanzuha@upm.edu.my](mailto:wanzuha@upm.edu.my)

**Assoc. Prof. Dr. Zulkiflle b. Leman**  
B.Sc. (Tri-State), M.Sc. (Warwick), Ph.D. (UPM)  
BEM, MySeT, MSAVE, AVS

**Head, Department of Mechanical and Manufacturing Engineering**

Telephone: 03-89464422/6336

E-mail: [zleman@upm.edu.my](mailto:zleman@upm.edu.my)

**Mr. Jamali bin Janib**

B.B.A. (UPM), MBA (GSM, UPM)

**Senior Assistant Registrar (Undergraduate Studies)**

Telephone: 603-8946 6275

E-mail: [jamali@upm.edu.my](mailto:jamali@upm.edu.my)

**Address:**

**Division of Undergraduate Studies**

**Faculty of Engineering**

**Universiti Putra Malaysia**

**43400 UPM Serdang**

**SELANGOR, MALAYSIA**

**Telephone: +603-8946 6272 / 6273**

**Faks: +603-86567124**

**E-mail: [eng.tdps@upm.edu.my](mailto:eng.tdps@upm.edu.my)**

**Website: [www.eng.upm.edu.my](http://www.eng.upm.edu.my)**

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