POSTGRADUATE STUDIES

Doctor of Philosophy (Physics)

The Doctor of Philosophy programmes by research are offered full-time. A student will carry out research in any one of the areas of research chosen. Each research project is supervised by a lecturer of the Graduate Faculty. Co-supervisors may come from a related industry.

Entry Requirement
Doctor of Philosophy (Physics)
- Master of Science (Physics) with CPA ≥ 3.0 will be considered for this program
  OR
- Other qualifications equivalent to a Master’s degree and experience in the relevant field recognized by the Senate; OR
- Candidates who are currently registered in a Master’s Degree programme at Universiti Teknologi Malaysia, and approved by the Graduate Studies Committee of the respective faculty and the Senate.

>> Tuition Fees

<table>
<thead>
<tr>
<th>PROGRAMME</th>
<th>MALAYSIAN</th>
<th>INTERNATIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER</td>
<td></td>
<td></td>
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<tr>
<td>Taught course and research (mixed mode)</td>
<td>FULL TIME (3 semesters)</td>
<td>FULL TIME (3 semesters)</td>
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<tr>
<td>RM 9,355.00</td>
<td>RM 22,330.00</td>
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<tr>
<td>Research</td>
<td>RM 8,255.00</td>
<td>RM 18,980.00</td>
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FURTHER INFORMATION

Faculty of Science
Universiti Teknologi Malaysia
81310 UTM Johor Bahr, Johor, Malaysia
+ (6) 07-5534050
fsains@utm.my

Undergraduate Office:
Tel: +607-5534043/5534046 (C17)
+607-5610224 (T02)

Postgraduate Office:
Tel: +607-55610357 or +607-5610358 (T05)

For further details, please visit us at:
Website: science.utm.my
Facebook: https://www.facebook.com/FakultiSainsUTM/
**Bachelor of Science (PHYSICS)**

The objectives of the Bachelor of Science in Physics are to provide the knowledge, skills and attributes that should be achieved by the graduates for a successful career. The program is designed to:

1. To be a competent, innovative, productive, and talented physicist for development and research needs.
2. To be a professional with appropriate soft-skills.
3. To demonstrate positive attitude, integrity, and high responsibility to the community and global citizen.

**Entry Requirement**

Fulfills University requirements and the following program requirements:

1. Matriculation/Foundation Science: Pass Matriculation/Foundation Science with at least CPA 2.80 AND a minimum Grade B in Physics, a minimum Grade B in either Mathematics, Chemistry or Biology AND at least Grade C in Mathematics (SPM) AND at least MUET Band 2. OR
2. STPM: Pass STPM with a minimum PNGK of 2.80 AND a minimum Grade B in Physics (STPM) AND at least Grade B in either Biology, Chemistry, Further Mathematics or Mathematics AND at least Grade C in Mathematics (SPM) AND at least MUET Band 2. OR
3. Diploma in Science or Engineering: Pass Diploma with at least CPA 3.0 from UTM or recognized institutions AND at least a credit in Mathematics (SPM) or at least Grade C in Mathematics (Diploma) AND at least MUET Band 2.

**Duration Of Programme**

4 years (full time)

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**Bachelor of Science (Industrial PHYSICS)**

The objectives of the B.Sc.(Industrial Physics) program are to provide the knowledge, skills and attributes that should be achieved by the graduates for a successful career. The program is designed to:

1. prepare graduates to work as a capable physicist in research and industrial institutions.
2. prepare graduates capable of leading a team and taking higher responsibility in workplace and community.
3. prepare graduates with reputable personality through critical reasoning and analysis, effective written and oral communication skills.
4. prepare graduates with innovative and creative mind to meet new challenges.
5. prepare graduates with professional integrity and capable of managing own learning successfully.
6. prepare graduates that possess entrepreneurship skills and able to foresee towards wealth and job creations.

**Entry Requirement**

Fulfills University requirements and the following program requirements:

1. **STPM/MATRICULATION/SCIENCE FOUNDATION**
   Minimum CGPA of 2.80 and passed with Grade B in Physics and Grade B in ONE (1) of the following subject : Biology/Mathematics/Chemistry
2. **DIPLOMA**
   Minimum CGPA of 3.00 and passed with credits in Mathematics in the SPM/equivalent examination.

**Programme Fees**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Total</th>
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<tbody>
<tr>
<td>1</td>
<td>2,174</td>
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<tr>
<td>2 – 8</td>
<td>6,818</td>
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<tr>
<td></td>
<td>8,992</td>
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</tbody>
</table>

**Career Prospects**

Program prepares graduates to pursue careers in various industries such as industrial supervisor, human resource manager, instrumentation services manager, quality control and production engineer and Occupational Health Officers. In public sectors, the graduate may pursue career as Science Officer, Research Scientist, Meteorologist and etc.

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**Masters of Philosophy (Physics)**

The Masters by research programmes are offered full-time. A student will carry out research in any one of the areas of research chosen. Each research project is supervised by a lecturer of the Graduate Faculty. Co-supervisors may come from a related industry.

**Entry Requirement**

- Bachelor of Science (Physics) with CPA ≥ 3.0 will be considered for this programme; OR
- Bachelor of Science with CPA < 3.0 and one year working experience in areas related to Physics

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**Research Field**

1. Laser and Nonlinear Optics
2. Advanced Photonics
3. Quantum Structures
4. Advanced Optical Materials
5. Phosphor Material
6. Applied Radiation Science