About Engineering Doctorate (EngD.) in Process Plant Management

Introduction   The aim of the programme is to provide solutions to one or more significant and challenging problems in managing complex process plant. Thus, the solution to the problem will have to take into account factors such as financial constraints, timescales and human capital management as well as technological issues. The Engineering Doctorate programme is aimed at developing individuals who will innovate but also able to implement the innovations.

The EngD. is a radical alternative to the traditional PhD. being better suited to the needs of the industry and providing a more vocationally oriented doctorate in the process industry. It is highly flexible and able to accommodate candidates from all level of management. it is a full-time postgraduate programme where candidates are expected to spend most of their time carrying out research works at their organizations or industries.

Programme Format
The EngD. programme is overseen by the EngD. Programme Committee. The duration of the student depends on the entry qualification of the candidate.

The minimum duration of the study for candidates with Master degrees in appropriate fields is six (6) semesters
All candidates are required to complete the taught modules, which is a minimum of 15 credits.

The research work can only be undertaken after the student has completed the taught course module requirements.

The research progress of a student is assessed semesterly through a progress report.

The degree is awarded based on a comprehensive examination (viva voce) of the dissertation submitted by the student at the end of his/her study.

Research Topics
The research progress of a candidate is assessed semesterly through a progress report. Research topics may cover the following areas :

- Innovation in engineering services
- Process & Plant Design Management
- Safety and Health in Process Industry
- Environmental Management
- Technology Management
- Energy Management
- Quality Management
- Process Control & Instrumentation
- Process Risk Management & Safety
- Process Troubleshooting
- Plant Maintenance & Inspection
- Engineering Business Management

Entry Qualification
MSc. in Process Plant Management from Universiti Teknologi Malaysia.

or

Master of Engineering or Science from Universiti Teknologi Malaysia or any other higher learning institutes approved by the Senate.

or

Master degree in any other fields (e.g. MBA) but with first degree in Engineering or Science with at least 2 years experience in the process industry.
### Programme Modules

#### Modules

<table>
<thead>
<tr>
<th>University Module</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ULP 0010 Research Methodology</td>
<td>3</td>
</tr>
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<td><strong>Total Credit</strong></td>
<td><strong>3</strong></td>
</tr>
</tbody>
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#### Core Faculty (Process and Plant Technology) choose 2 modules

- EKL 1113 Building Operational Excellence 3
- EKL 1123 Modelling & Optimisation of Batch Processes and Wastewater Treatment 3
- EKL 1133 Plant Shutdown, Turnaround and Debottlenecking 3
- EKL 1143 Strategic Plant Reliability Management 3

**Total Credit** 6

#### Business and Management (choose 2 modules)

- EKL 1213 Business Strategy and Strategic Management 3
- EKL 1223 Financial Decision Making 3
- EKL 1233 Management of Change 3
- EKL 1243 Production Planning with Process Integration 3

**Total Credit** 6

#### Core University

- EKL 1190 Doctoral Research Project 93

**Total Credit** 93

**TOTAL CREDIT TO GRADUATE** 108

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### Programme Fees

- **Malaysian Students**
  - RM 7,500 per semester
  - RM 45,500 (for 6 semesters)

- **International Students**
  - RM 9,600 per semester
  - RM 57,000 (for 6 semesters)

### Learning Centres

- UTM International Campus Kuala Lumpur & UTM Johor Baharu, Johor

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### GOOD NEWS FOR MALAYSIAN POSTGRADUATE STUDENTS

In Budget '08 announced by the Right Honorable Prime Minister, tax paying postgraduate students can expect RM5,000 tax relief for postgraduate fees.

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### Intake Schedule and Application Form Submission

Every September and February. Application form must be submitted at least 1 month before the commencement date to:

**Dean**

School of Graduate Studies

Universiti Teknologi Malaysia

81300 UTM Johor Baharu, Johor

Johor Malaysia

Tel : +607-553 7790  Fax : +607-553 7800

Email : graduate@utm.my

http://www.sps.utm.my

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### Contact Information:

If you have any enquiry about our EngD in Process Plant Management programme or registration, please contact:

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**Programme Chairman**

Prof. Ramlan Aziz

Email : ramlan@ibd.utm.my

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**UTM International Campus**

is situated approximately 20 minutes walk from Petronas Twin Towers and Kuala Lumpur City Centre.