A graduate student in this Programme is also expected to have a strong mathematical and analytical background and the ability to use specialized software applications within this context. Syllabuses can be seen in the Postgraduate Information Guide of the Faculty of Engineering. They are also available online at http://www.sta.uwi.edu/resources/documents/facultybooklets/EngPostgrad.pdf.

FOR MORE INFORMATION

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OR

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Programme Aims and Objectives

To provide advanced education and training for graduates in Mechanical Engineering and equivalent graduates of CEng/IEng accredited degree programmes to meet current and future needs of manufacturing and allied industries.

To provide Mechanical Engineering Graduates and equivalent Graduates with a deeper understanding of knowledge required for designing products, tools and manufacturing systems.

Output:
A competent Manufacturing Engineer capable of combining technical, professional and managerial skills and capabilities.

Structure of Programme

Part-time students: Normally expected to complete the examination requirements within four (4) semesters and complete the Project in accordance with the relevant University Regulations.

Full-time students: Normally expected to complete the examination requirements within two (2) semesters and complete the Project in accordance with the relevant University Regulations.

The Programme consists of six (6) Compulsory courses and four (4) Optional courses that are grouped under two major Subject Areas and a Final Project. Each course carries three (3) credits and the Final Project carries nine (9) credits.

Programme Content - Course Listing

Compulsory Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENG 6200</td>
<td>Production Technology</td>
</tr>
<tr>
<td>MENG 6207</td>
<td>Computer Integrated Manufacturing</td>
</tr>
<tr>
<td>MENG 6306</td>
<td>Advanced CAD/CAM for Product Realization</td>
</tr>
<tr>
<td>MENG 6400</td>
<td>Production Planning &amp; Control</td>
</tr>
<tr>
<td>MENG 6504</td>
<td>Technology and Product Development</td>
</tr>
<tr>
<td>MENG 6508</td>
<td>Research Methods</td>
</tr>
<tr>
<td>MENG 6600</td>
<td>Final Project (On Successful Completion of 10 Courses)</td>
</tr>
</tbody>
</table>

Optional Courses

Group A: Manufacturing Engineering
Two (2) courses to be chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENG 6203</td>
<td>Robotic Technology &amp; Applications</td>
</tr>
<tr>
<td>MENG 6302</td>
<td>Design of Plants and Services</td>
</tr>
<tr>
<td>MENG 6305</td>
<td>Finite Elements Analysis in Manufacturing</td>
</tr>
<tr>
<td>MENG 6307</td>
<td>Design &amp; Simulation of Mfg. Systems</td>
</tr>
</tbody>
</table>

Group B: Manufacturing Management
Two (2) courses to be chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENG 6505</td>
<td>Health, Safety &amp; The Environment</td>
</tr>
<tr>
<td>MENG 6405</td>
<td>Total Quality Management</td>
</tr>
<tr>
<td>MENG 6506</td>
<td>Project Management</td>
</tr>
</tbody>
</table>

Requirements for Award of MSc

Candidates are required to obtain a total of thirty (30) credits from six (6) Compulsory courses (18 credits) and four (4) Optional courses, two courses from each Subject Groups A & B (12 credits) and complete an industry-oriented project, MENG 6600 (9 credits).

Who Should Enroll
The Programme would be most useful to Engineers and Managers holding responsibilities for Planning, Design and Development, Production/Operations, Plant Maintenance, and Projects in Manufacturing and Service Industries.

Regulations
The General Regulations of the University and Faculty of Engineering for MSc Degrees shall apply.

Entry Requirements
The requirements for admission to the Programme as follows:

- A BSc Degree in Mechanical, Manufacturing, Production, Industrial Engineering or an equivalent with at least a Lower Second Class degree.
- At least one (1) year of industrial experience is desirable. This may be waived for Recent Graduates with a First or Upper Second Class Honours degree, who wishes to complete the program on a Full-Time basis.
- Applicants with Third Class or Pass degrees require at least three (3) years industrial experience.