COURSE DETAILS

A separate sheet should be completed for each course.

<table>
<thead>
<tr>
<th>Course title</th>
<th>Bachelor of Science in Technical Education Program in Mechanical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entry qualifications</td>
<td>1. Must have graduated or 2. To receive graduate status of their high school in Mathematics-Science program, successfully completed grade 12 or 3. Vocational Certificate Graduates</td>
</tr>
<tr>
<td>Maximum number in class</td>
<td></td>
</tr>
<tr>
<td>Average class contact hours per week</td>
<td>15 – 21 hours per week</td>
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<tr>
<td>Examining body</td>
<td>RMUTT</td>
</tr>
<tr>
<td>Academic level</td>
<td>Bachelor of Science in Technical Education (Mechanical Engineering)</td>
</tr>
<tr>
<td>Certificate awarded, and by whom</td>
<td>Ministry of Education</td>
</tr>
<tr>
<td>Duration of course</td>
<td>5 years</td>
</tr>
<tr>
<td>Teacher/Course Leader responsible for the course</td>
<td>Asst. Prof. Tanutt Sripanom</td>
</tr>
</tbody>
</table>
| Brief outline of the course content and its delivery | Students must complete at least 169 credits of the curriculum  
A. General Education Courses 36 credits  
B. Specialized Courses 127 credits  
   Required Teaching Profession Courses  
   - Technical Drawing  
   - Industrial Basic Skills  
   - Industrial Materials  
   - Calculus for Engineers 1  
   - Calculus for Engineers 2  
   - Language and Culture for Teachers |
- Innovation and Information Technology in Education
- Psychology for Teachers
- Philosophy and Vocational Education Management
- Learning and Vocational Classroom Management
- Vocational Curriculum Development
- Measurement and Evaluation for Vocational Teachers
- Instructional Material Development
- Self-Actualization for Vocational Teachers
- Learning Development Research for Vocational Teachers
- Vocational Educational Quality Assurance
- Didactics for Technician 1
- Didactics for Technician 2
- Practicum

Engineering Courses
- Mechanical Drawing
- Measuring Tool
- Machine Tool
- Engineering Mechanic
- Engineering Dynamics
- Fluid Mechanic
- Thermodynamic
- Mechanic of Material
- Mechanical Design
- Pneumatic and Hydraulic
- Internal Combustion Engine
- Basics Automotive Maintenance
- Gasoline Engine
- Diesel Engine
- Automotive Suspension and Transmission
- Automotive Electrical and Electronics
- Electrical Engineering Technology
- Mechanical Pre-project
- Mechanical Engineering Project
- Mechanical Education Project

C. Free Elective Courses 6 credits