## COURSE DETAILS

A separate sheet should be completed for each course.

<table>
<thead>
<tr>
<th><strong>Course title</strong></th>
<th>Bachelor of Science in Technical Education Program in Electrical Engineering</th>
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| **Entry qualifications** | 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 |
| **Maximum number in class** | 30 people |
| **Average class contact hours per week** | 15 – 21 hours per week |
| **Examining body** | RMUTT |
| **Academic level** | Bachelor of Science in Technical Education (Electrical Engineering) |
| **Certificate awarded, and by whom** | Ministry of Education |
| **Duration of course** | 5 years |
| **Teacher/Course Leader responsible for the course** | Asst. Prof. Sumeth Theskul |
| **Brief outline of the course content and its delivery** | Students must complete at least 170 credits of the curriculum  
A. General Education Courses 33 credits  
B. Specialized Courses 131 credits  
Teaching Profession Courses  
- Language and Culture for Teachers  
- Innovation and Information Technology in Education  
- Psychology for Teacher  
- Philosophy and Vocational Administrative |
- 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
- Vocational Professional Experience 1
- Vocational Professional Experience 2

Engineering Courses
- Electric Circuits
- Electrical Drawings
- Electric Circuits Analysis
- Electrical Machines 1
- Electrical Engineering Mathematics
- Industrial Electronics
- Electrical Skill Practices
- Electrical Machines 2
- Illumination Engineering
- Power Electronics
- Electrical System Designs
- Electrical Pre-Project
- Electrical Projects
- Electrical Measurements and Instrumentations
- Control Systems
- Digital Circuits Design

C. Free Elective Courses 6 credits