### 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 Computer 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 (Computer Engineering) |
| Certificate awarded, and by whom | Ministry of Education |
| Duration of course | 5 years |
| Teacher/Course Leader responsible for the course | Mr. Tongchart Pikoolthong |
| Brief outline of the course content and its delivery | Students must complete at least 169 credits of the curriculum  
**A. General Education Courses 33 credits**  
**B. Specialized Courses 130 credits**  
Basic [Teaching Profession Courses](#)  
- Language and Culture for Teachers  
- Innovation and Information Technology in Education  
- Psychology for Teacher  
- Philosophy and Vocational Administrational  
- 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

Basic Engineering Courses
- Computer Programming
- Object Oriented Programming
- Digital Logic
- Data Structure and Algorithm
- Computer Organization and Architecture
- Discrete Mathematics
- Computer Operating Systems
- Microcontroller Programming
- System Analysis and Design
- Software Engineering
- Computer Network
- Database Systems
- Instructional Media Development and E-Learning
- Computer Engineering Pre-Project
- Computer Engineering Project
- Computer Education Project
- Electrical Engineering Technology
- Electronics Engineering

C. Free Elective Courses 6 credits