

## COURSE DETAILS

A separate sheet should be completed for each course.

Course title	Bachelor of Science in Technical Education Program in Computer Engineering
Entry qualifications	<ol style="list-style-type: none"> <li>1. Must have graduated or</li> <li>2. To receive graduate status of their high school in Mathematics-Science program, successfully completed grade 12 or</li> <li>3. Vocational Certificate Graduates</li> </ol>
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	<p>Students must complete at least 169 credits of the curriculum</p> <p><b>A. General Education Courses 33 credits</b></p> <p><b>B. Specialized Courses 130 credits</b></p> <p>Basic <b>Teaching Profession Courses</b></p> <ul style="list-style-type: none"> <li>- Language and Culture for Teachers</li> <li>- Innovation and Information Technology in Education</li> <li>- Psychology for Teacher</li> <li>- Philosophy and Vocational Administrative</li> <li>- Classroom Management</li> </ul>

- 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**