# 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 Civil 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 | 60 people |
| Average class contact hours per week | 15 – 21 hours per week |
| Examining body | RMUTT |
| Academic level | Bachelor of Science in Technical Education (Civil Engineering) |
| Certificate awarded, and by whom | Ministry of Education |
| Duration of course | 5 years |
| Teacher/Course Leader responsible for the course | Mr. Nattanon Rattanachai |
| Brief outline of the course content and its delivery | Students must complete at least 174 credits of the curriculum  
**A. General Education Courses 36 credits**  
**B. Specialized Courses 132 credits**  
**Basic Teaching Profession Courses**  
- Language and Culture for Teachers  
- Innovation and Information Technology in Education  
- Psychology for Teacher  
- Philosophy and Vocational Administration |
- 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**
- Technical Drawing
- Construction Drawing
- Construction Techniques Workshop 1
- Construction Techniques Workshop 2
- Construction Techniques Workshop 3
- Construction Techniques Workshop 4
- Industrial Basic Skills
- Industrial Materials
- Civil Engineering Pre-project
- Civil Engineering Project 1
- Civil Engineering Project 2
- Engineering Mechanics
- Engineering Drawing by Computer Program 1
- Engineering Drawing by Computer Program 2
- Construction Safety
- Surveying 1
- Surveying 2
- Construction Estimation and Specification
- Soil Mechanics and Laboratory
- Construction Techniques
- Law Contract and Construction Items
- Construction Management
- Construction of Materials
- Construction Materials and Testing Laboratory
- Theory of Structures
- Structural Analysis
- Reinforced Concrete Design
- Timber and Steel Design
- Fluid Mechanics and Laboratory

C. Free Elective Courses 6 credits