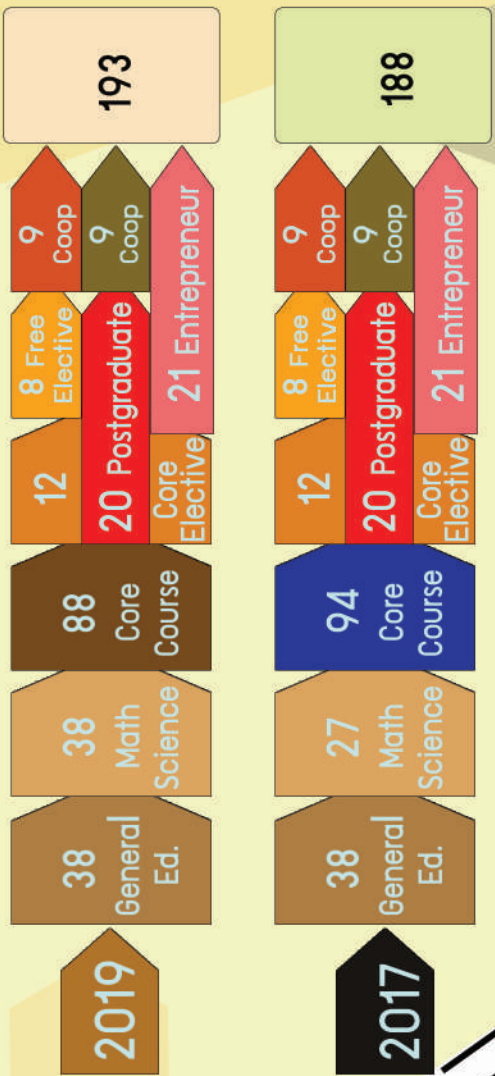


Bachelor of Engineering Program in Civil Engineering



Program History

Bachelor of Engineering Program in Civil Engineering was established since 1994, the first batch of student was recruited in the same year. There are 7 general reviews afterward last review is on 2019. The main reason of last review is to including Entrepreneurship courses, serving on alternative students' requirement, SUT policy and employer's need.



Educational Philosophy

Core education philosophy of SUT is Work integrated learning in the form of co-operative education.

Program Objectives

- 1 Graduates conduct their profession expertly and professionally in design, construction and development of solutions of contemporary problems in structural, geotechnical, water resources, transportation and construction management engineering.
- 2 Graduates grow professionally in their civil engineering careers by applying appropriate technologies including ITs, utilizing modern engineering tools and providing strong leadership skills in civil engineering projects.
- 3 Graduates engage in activities that serves the needs of profession and society. with prompt regard to environmental, societal and cultural impacts and sustainability concerns.



Program Profile

Bachelor of Engineering Program
in Civil Engineering

(General Review 2017 and 2019)



Civil Engineering

Institute of Engineering

Suranaree University of Technology

Update: January 2020



Academic Staff Success

Academic Staff

Prof. Dr. Suksun Horpibulsuk received National Outstanding Research Award, and Chair Professor Grants from NSTDA for 2019

Asst. Prof. Dr. Theerawat Sinsiri received Thai Invention Award in Thailand Inventors' Day 2019, 2-6 February 2019, organized by National Research Council of Thailand (NRCT).

Qualification

13 Doctoral
2 Master's

School and Program Success

School of civil engineering was evaluated in very good level and 1st national ranking for quality of research work in science and technology by Thailand Research Fund (TRF).

Civil engineering program received 3 years accreditation (2017-2019) for engineering education from Thailand Accreditation Board of Engineering Education (TABEE), Council of Engineer.

Required competence of Civil Engineer

- 1 Having perspective and broad view on how to achieve Civil Engineering project that requires multiple specialist in Civil Engineering, including Surveying Engineering, Geotechnical Engineering, Structural Engineering, Water Resources Engineering, Infrastructure Engineering and Construction Management Engineering.
- 2 Having good knowledge, skills and attitude for ethically working team to accomplish all processes for Civil Engineering project: surveying, project planning, feasibility study, detail design, constructions, and understanding on construction material and maintenance practices.
- 3 Having basic skills on component designing of Civil Engineering project, using package program as a tool for planning, project development and structural designing (i.e. GIS, AutoCAD, SAP2000 and ETABS).
- 4 Having skills on problem analysis and solving or on a new challenge in Civil Engineering from point of view of studying, planning, designing and construction.
- 5 Having communication and presentation skills, both Thai and foreign languages.

Academic Position

1 Professor
4 Associate Professors
5 Assistant Professors
1 Senior Fellow (UKPSF)
2 Fellow (UKPSF)

Engineering profession license

1 Professional Engineer
2 Associate Engineers
10 Adjunct Engineers

Program Learning Outcomes

- 1 An ability to identify, formulate, and solve complex civil engineering problems by applying principles of engineering, science and mathematics.
- 2 An ability to apply civil engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors.
- 3 An ability to communicate effectively with a range of audiences.
- 4 An ability to recognize ethical and professional responsibilities in civil engineering situations and make informed judgments, which must consider the impact of civil engineering solutions in global, economic, environmental and global contexts.
- 5 An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, and use civil judgment to draw conclusions.
- 6 An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use civil judgment to draw conclusions.
- 7 An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Outstanding Alumni

Mr. Nattawat Kaewdee, the first batch alumni, received Engineering profession license, Professional Engineer level, since November 2017.

Sakdirat Kaewunruen the 3rd batch alumni, working as senior lecturer at the University of Birmingham, England, since 2014.

Mr. Pennueng Khruchalee, the 18th batch alumni, received the certificate from Council of Engineer for the highest score of the examination applying for adjunct engineer on June 2017.



Target for student admissions and graduation

- 1 Full time equivalent Students (FTES) between academic staff and students is 1:20.
- 2 studying and graduated period within 4 year is more than 65%
- 3 Drop-out rate is less than 10 %

Results of student admission and graduation

Number of student admission in academic year 2010 2011 2012 2013 2014 and 2015 are 97, 86, 100 108 158 and 178; the percentage of graduated student within 4 years are 41, 43, 43, 69, 66 and 65; the percentage of drop-out rates are 18, 9, 20, 4, 4 and 6 %, respectively. FTES between student and academic staffs in academic year 2015 2016 2017 and 2018 are 24:1 25:1 35:1 and 38:1, respectively.

Target for employability rate

- 1 Rate of graduates getting jobs from employer or independent job within 1 year is not less than 90%
- 2 Earned salary is higher than averaged engineering graduates.

Results of employability

Employability rate of graduate entering in academic year 2014 2015 2016 and 2017 are 94 97 94 and 91%, respectively, Average salaries are 18,728 20,356 20,171 and 21,478 Baht/month, respectively.

Target for student success

Receiving award from academic invention or innovation at less 1 award per year.

Student successes

Mr. Sakarin Sompong, the third year student, received the Gold Medal Award for Sufficiency Economy. Received a shield of honor and scholarship of 5,000 baht on 4 October 2018.

Mr. Attapol Janchom received award from Pruksa day 2017.

Mr. Jakkrit Ritsawang, 12th batch alumni, received the best of RITTA award 2018