

CIVIL ENGINEERING SIAM UNIVERSITY



BACHELOR OF ENGINEERING CIVIL ENGINEERING

Certified by Council of Engineers Thailand and Office of the Higher Education Commission (OHEC) Thailand.

Studying period 3.5-4 years (Normal) and 2 years (Credits transfers)



Looking for Better Opportunity
at Siam University

DEPARTMENT OF CIVIL ENGINEERING
SIAM UNIVERSITY 38 PETCHKASEM RD.
PHASI CHAREON, BANGKOK 10160
THAILAND. TEL 02-457-0068 EXT 5128



Education scheduling systems 144 Credit

1st. year Semester 1		
Subject codes	Subjects	Credit
114-101	English 1	2(1-2-3)
123-101	General Chemistry	3(3-0-6)
123-102	General Chemistry Laboratory	1(0-3-1)
124-101	General Physics 1	3(3-0-6)
124-103	General Physics Laboratory 1	1(0-3-1)
125-201	Mathematics 1	3(3-0-6)
151-101	Engineering Drawing and Graphics	3(2-3-5)
	Social Sciences and Humanities Course Select 100-103 ASEAN in the Modern World, 100-105 Psychology in Daily Life, 100-107 Civilization Studies, 100-108 Study Skills	3(3-0-6)
	Aesthetics and Physical Course Select 129-101 Physical Education and Recreation 129-102 Art and Music Appreciation	2(1-2-3)
Total		21(16-13-37)

1st. year Semester 2		
Subject codes	Subjects	Credit
114-102	English 2	2(1-2-3)
124-102	General Physics 2	3(3-0-6)
124-104	General Physics Laboratory 2	1(0-3-1)
125-202	Mathematics 2	3(3-0-6)
151-201	Engineering Mechanics	3(3-0-6)
151-271	Engineering Materials	3(3-0-6)
155-101	Engineering Computer Programming	3(3-0-5)
	Social Sciences and Humanities Course Select 111-101 General Psychology, 111-102 Introduction to Sociology, 111-103 Principle of Economics, 112-101 Civilizations	3(3-0-6)
Total		21(19-5-39)

2nd. year Semester 1		
Subject codes	Subjects	Credit
114-201	English 3	2(1-2-3)
125-203	Mathematics 3	3(3-0-6)
151-202	Engineering Fundamental Laboratory	2(0-6-4)
153-211	Strength of Materials 1	3(3-0-6)
153-213	Surveying 1	3(1-3-6)
	Science and Mathematics Course Select 121-101 Information Technology, 121-103 Life and Environment, 121-106 Mathematics in Daily Life, 121-107 Basic Statistics for Data Analysis	3(3-0-6)
	Social Sciences and Humanities Course Select 111-101 General Psychology, 111-102 Introduction to Sociology, 111-103 Principle of Economics, 112-101 Civilizations	3(3-0-6)
Total		19(14-11-37)

2nd. year Semester 2		
Subject codes	Subjects	Credit
114-202	English 4	2(1-2-3)
125-301	Engineering Mathematics IV	3(3-0-6)
153-212	Hydraulics	3(3-0-6)
153-224	Route Survey (Elective in Civil Engineering Course)	3(2-3-5)
153-231	Hydraulics Laboratory	1(0-3-2)
153-322	Structural Analysis 1	3(3-0-6)
153-232	Surveying internship in the field	1(0-80-0)
	Thai Languages Course Select 113-108 Thai Usage for Communication 113-109 Thai Usage for Presentation	3(2-2-5)
Total		19(14-90-34)

Education scheduling systems 144 Credit

3rd. year Semester 1		
Subject codes	Subjects	Credit
114-301	English 5	2(1-4-3)
153-325	Civil Engineering Material Concrete Technology	3(2-3-6)
153-326	Structural Analysis 2	3(3-0-6)
153-331	Civil Engineering Material Testing Laboratory	1(0-3-0)
153-321	Hydrology (Elective in Civil Engineering Course)	3(3-0-6)
153-223	Strength of Materials 2 (Elective in Civil Engineering Course)	3(3-0-6)
	Science and Mathematics Course Select 121-101 Information Technology, 121-103 Life and Environment, 121-106 Mathematics in Daily Life, 121-107 Basic Statistics for Data Analysis	3(3-0-6)
	Free Elective Course Select	3(3-0-6)
Total		21(18-10-39)

3rd. year Semester 2		
Subject codes	Subjects	Credit
114-302	English 6	2(1-2-3)
153-328	Soil Mechanics	3(3-0-6)
153-332	Soil Mechanics Laboratory	1(0-3-2)
153-421	Hydraulic Engineering	3(3-0-6)
153-422	Reinforced Concrete Design	4(3-3-6)
	2nd. Foreign Languages Course Select 113-103-4 Chinese, 113-105-6 Japanese, 113-111-2 Korean	2(1-2-3)
	Free Elective Course Select	3(3-0-6)
Total		18(14-10-32)

4th. year Semester 1		
Subject codes	Subjects	Credit
153-323	Highway Engineering	3(3-0-6)
153-431	Highway Material Testing Laboratory	1(0-3-2)
153-425	Foundation Engineering (Elective in Civil Engineering Course)	4(3-3-6)
153-423	Construction Engineering Management	3(3-0-6)
153-424	Timber and Steel Design	4(3-3-6)
153-427	Computer Program for Civil Engineering (Elective in Civil Engineering Course)	2(1-3-2)
153-329	Construction Cost Estimation and Analysis (Elective in Civil Engineering Course)	3(3-0-6)
153-493	Co-Operative Education for Civil Engineering (Elective in Civil Engineering Course)	1(0-36-6)
Total		21(6-48-40)

4th. year Semester 2		
Subject codes	Subjects	Credit
153-494	Co-Operative Education for Civil Engineering (Elective in Civil Engineering Course)	5(0-36-6)
Total		5(0-36-6)

Remark* Surveying internship in the field must practice not less than 80 hr. in summer semester

BRANCHES OF CIVIL ENGINEERING

- Structural Engineering deals with structural analysis and design of structures.
- Material Engineering study of Material Strength, properties of materials used in construction, ceramics, etc.
- Construction Engineering deals with planning, construction and maintenance of structures.
- Geotechnical Engineering study of soil, foundations, bearing capacity, etc.
- Transportation Engineering deals with planning, construction and management of transportations facilities.
- Water Resource Engineering deals with design and construction of hydraulic structures like dams, canals, water distribution system, etc.
- Surveying deals with surveying and levelling of lands using various instruments, mapping & contouring of terrains, etc.



PROFESSIONAL CIVIL ENGINEERING

- OWNER CONSTRUCTION OR CONSULTANTS
- PROJECT ENGINEER / PROJECT MANAGER
- DESIGNED ENGINEER / SITE ENGINEER
- BUILDING INSPECTOR ENGINEERS

Qualifications of applicants: Graduated from grade 12 or equivalent High Vocational and Accepting transfer credits for the second degree



Collaboration with other agencies



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