

KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT

PROGRAMME SPECIFICATION
PROFESSIONAL

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Approved

Rector

"TOSHKENT WXALQARO OUNIVERSITES

Prof Janpolat Kudaybergenov

n terresia de la comencia del la comencia del la comencia de la comencia del la comencia de la comencia del la comencia de la comencia de la comencia del la comen

The Program of Study Bachelor of Science (B. Sc.) in Civil Engineering

1. Bachelor of Science (B. S	Sc.) in Civil Engineering	
Teaching and Awarding Institution	Kimyo International University in	
Teaching and Awaraning meaning	Tashkent	
Final award	Bachelor of Science (B. Sc.) in Civil	
Fillal awal a	Engineering	
Program Title	Civil engineering	
Program Director	Inamov Bahodir	
Mode of Study	Full-time	
Normal Duration of the program	Four years	
Language of study	Uzbek, Russian and English	
Date of production July 2018		

2. Admissions Policy.

In order to become a student in the direction of Civil Engineering, an applicantswill need to know the basics of drawing, planning and mathematics.

3. Educational Aims of the Program.

The educational Programme will allow you to gain deep theoretical knowledgeand practical skills in the development of projects for the development of construction and engineering.

The Programme aims to train professionals with sufficient theoretical and practical skills to work as professional engineers.

- to reveal the tasks of modern design and production processes in thefield of architecture and engineering.
- to develop the ability to make creative and innovative decisions based onresearch activities.
- to develop the ability to design residential and public buildings and structures by developing students' personal qualities, to form generalcultural and professional competencies.
- to form students' sense and understanding of strength, benefits and mechanical properties of building materials in the field of engineering.
- to develop students' ability for analytical, creative, independent thinking.
- to determine on the basis of an analysis of national standards and requirements in higher education, foreign needs and expectations ofstakeholders in professional activities.

As well as research and design in the field of creating, transforming, preserving, renovating, adapting and using a harmonious, comfortable and safe built environment, and its components, monitoring the implementation of projects.

4. Programme outcomes (include reference to graduateattributes where appropriate).

On successful completion of the programme students should be able to demonstrate the following

Knowledge, and Understanding

- Knowledge of the principles of design and modeling of the constructionand engineering.
- Knowledge and possession of modern computer programs for designand development.
- Communication skills. Students must communicate the benefits of constructional approaches simply and clearly.

- Know about the creations of the great engineers of the past and be ableto introduce them into the modern, innovative world of construction.
- Some of the most important skills engineers should acquire include efficient communication skills, mathematical skills, and creativity.
- Conduct a dialogue-dialogue in the state and foreign languages, use therules
 of speech etiquette, read literature in the specialty without a dictionary in
 order to search for information.

Cognitive Skills

- The engineers must, first of all, be able to analyze the terrain, buildingand environment. Identify the main tasks and methods of competent design.
- Awareness of the social significance of their future profession, possessing high motivation to perform professional activities.
- define the goals and objectives of accompanying design studies in civil engineering;
- to identify modern trends in the development of engineering survey methods, design technologies;
- to navigate current problems and advanced achievements in the field of theoretical issues of civil engineering and technical state of the construction industry, in matters of ecology, energy efficiency and others.

Practical and Professional Skills

- to choose efficient constructions, construction materials and technologies for driving buildings and structures.
- use the practical skills of knowing technologies of construction, being familiar with construction materials and their purposes to use in buildingconstruction.
- to form creative and innovative concepts of engineering solutions in design.
- to identify the main physical and mechanical properties of building materials, the technology of their manufacture, methods of increasinguse efficiency, methods of engineering surveys in construction, basicconcepts of building codes and standards, methods of engineering mechanics
- to develop sections of the engineering part of the basis of calculation and design of buildings and structures, composition and content of design documentation, methods of theoretical and experimental studiesof building structures, soils of foundations, foundations of economic theory of construction, issues of labor protection and safety.
- take part in scientific and practical conferences in creative competitions, exhibition events to promote projects and innovative achievements in civil engineering;

Transferable Skills

- Take responsibility for your own training and independently create and implement plans to achieve specific goals in the field of construction and civil engineering.
- Demonstrate effective communication and presentation skills.
- To be a leader and initiator in creative groups in the field of constructionand civil engineering;

Self-appraise and reflect on practice.

On successful completion of the programme students should be able to demonstrate the following graduate attributes:

Being familiar with calculation of constructions.

- Making projects of the buildings.
- Establishing the technologies of construction.
- Being familiar with economy and estimating in construction.

5. Programme Curriculum.

Students follow 254 ECTS credits of compulsory modules, with 12 ECTS creditsof elective modules. Student workload is allocated as follows: 64-68 ECTS per academic year, 27-34 ECTS per semester, 30 ECTS per undergraduate practice (a minimum of 5 weeks):

KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT PROGRAMME CURRICULUM COURSE SCHEDULE FOR B.Sc. IN CIVIL ENGINEERING

Nº	Code	Module / Subject	YTIT credits	ECTS		
Year One						
First semester						
eneral mo	odules	RUSSIAN LANGUAGE 1				
1	2	3				
2	CEN02	ENGLISH LANGUAGE 1	4	6		
3	CEN03	INTRODUCTION TO CIVIL ENGINEERING	2	3		
4	CEN04	MATHEMATICAL ANALYSIS 1	4	- 6		
5	CEN05	PHYSICS	3	5		
6	CEN06	COMPUTER SCIENCE 1	2	3		
7	CEN07	ENGINEERING DRAWING 1	3	5		
		Total	20	31		
		Second semester				
Seneral m	odules					
8	CEN08	MATEMATECAL ANALYSIS 2	4	6		
9	CEN09	COMPUTER SCIENCE 2	2	3		
10	CEN10	INTRUDUCTION CONSTRUCTION MATERIALS	3	5		
11	CEN11	THEORETICAL MECHANICS	3	5		
12	CEN12	CONSTRUCTION MACHINES	2	3		
13	CEN13 ENGINEERING DRAWING 2		3	5		
Elective m	odule (1 out o	f 4)	,			
14.1	CEN14	TECHNICAL ENGLISH	3	5		
14.2	CEN15	RUSSIAN LANGUAGE 2	2	3		
14.3	CEN16	INTRODUCTION TO COMPUTER GRAPHICS	3	5		
14.4	CEN17	ARCHITECTURAL BASIC DESIGN 1	3	5		
		Total	20	32		
		Year Two				
		Third semester				
Compulso	ory modules		1			
15	CEN18	MECHANICS OF MATERIALS 1	3	5		
16	CEN19	APPLIED MATHEMATICS	2	3		

CEN23	18 CEN21 CONSTRUCTION MATERIALS AND EXPERIMENTS		3	5	
Elective module (1 out of 3)			CAD FOR CIVIL ENGINEER 1	3	5
21.1			INDUSTRIAL BUILDINGS 1	3	5
21.2 CEN25 BUILDING ECOLOGY 2 2 2 2 2 2 2 2 2			of 3)		
21.3 CEN26	21.1 CEN24 ENGINEERING GEOLOGY		ENGINEERING GEOLOGY	2	3
Total	21.2	CEN25	BUILDING ECOLOGY	2	3
Fourth semester	21.3	CEN26	ARCHITECTURAL BASIC DESIGN 2	2	3
Compulsory modules			Total	20	37
CEN27			Fourth semester		
CEN28	Compulso	ry modules			
CEN29 SURVEYING 2		CEN27	CAD FOR CIVIL ENGINEER 2	3	5
25 CEN30 ARCHITECTURE OF CIVIL AND INDUSTRIAL BUILDINGS 2 3 26 CEN31 SOIL MECHANICS AND FOUNDATION 2 27 CEN32 MODERN BUILDING TECHNOLOGY 3 28.1 CEN33 HYDRAULIC ENGINEERING 2 28.2 CEN34 MODERN BUILDING MATERIALS AND TECHNOLOGIES OF THEIR APPLICATION Total 20 Summer internship 3 29 CEN35 INTERSHIP 3 29 CEN36 APPLIED CAD FOR CIVIL ENGINEER 3 31 CEN37 STONE STRUCTURES 4 32 CEN38 STRUCTURAL MECHANICS 1 3 33 CEN39 CONSTRUCTION PHYSICS 2 34 CEN40 WOOD AND COMPOSITE 2 35 CEN41 STEEL STRUCTURE 2 36 CEN42 ORGANIZATION AND PLANNING 2 20 CEN43 ENERGY EFFICIENCY OF BUILDINGS 3 37.1 CEN43 ENERGY EFFICIENCY OF BUILDINGS 3 37.2 CEN44 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES 2 37.2 CEN44 CITY CADASTRE CITY CADASTRE	23	CEN28	MECHANICS OF MATERIALS 2	3	5
INDUSTRIAL BUILDINGS 2 3 3 2 2 2 2 2 2 2	24	CEN29	SURVEYING 2	4	6
CEN31	25	CEN30		3	5
				2	3
28.1 CEN33				3	5
28.2 CEN34 MODERN BUILDING MATERIALS AND TECHNOLOGIES OF THEIR APPLICATION	ective mod	dule (1 out of 3)			
CEN34 MODERN BUILDING MATERIALS AND TECHNOLOGIES OF THEIR APPLICATION	28.1	CEN33	HYDRAULIC ENGINEERING	2	3
Summer internship 3	28.2	CEN34	AND TECHNOLOGIES OF THEIR	2	3
CEN35 INTERSHIP 3			Total	20	32
Year Three Fifth semester			Summer internship		
STEEL STRUCTURE ENGINEERING STEE	29	CEN35	INTERSHIP I	3	9
Compulsory modules			Year Three		
30 CEN36 APPLIED CAD FOR CIVIL ENGINEER 1 3 3 3 3 3 3 3 4 4 3 3			Fifth semester		
SO	ompulso	ry modules			
STONE STRUCTURES 32 CEN38 STRUCTURAL MECHANICS 1 33 CEN39 CONSTRUCTION PHYSICS 24 CEN40 WOOD AND COMPOSITE STRUCTURES 35 CEN41 STEEL STRUCTURE ENGINEERING 36 CEN42 ORGANIZATION AND PLANNING OF CONSTRUCTION 37.1 CEN43 ENERGY EFFICIENCY OF BUILDINGS 37.2 CEN44 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES 2 CEN45 CITY CADASTRE	30	CEN36	ENGINEER 1	3	5
33 CEN39 CONSTRUCTION PHYSICS 34 CEN40 WOOD AND COMPOSITE STRUCTURES 35 CEN41 STEEL STRUCTURE ENGINEERING 36 CEN42 ORGANIZATION AND PLANNING OF CONSTRUCTION 37.1 CEN43 ENERGY EFFICIENCY OF BUILDINGS 37.2 CEN44 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES 2 CEN45 CITY CADASTRE			STONE STRUCTURES	4	6
34 CEN40 WOOD AND COMPOSITE STRUCTURES 35 CEN41 STEEL STRUCTURE ENGINEERING 36 CEN42 ORGANIZATION AND PLANNING OF CONSTRUCTION 2 37.1 CEN43 ENERGY EFFICIENCY OF BUILDINGS 37.2 CEN44 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES 2 2 2 2 2 2 2 2 2 2 2 2 2	32	CEN38		3	5
STRUCTURES STRUCTURES STEEL STRUCTURE ENGINEERING CEN42 ORGANIZATION AND PLANNING OF CONSTRUCTION CEN43 ENERGY EFFICIENCY OF BUILDINGS ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES CEN44 CITY CADASTRE		CEN39	CONSTRUCTION PHYSICS	2	3
ENGINEERING CEN42 ORGANIZATION AND PLANNING OF CONSTRUCTION CEN43 ENERGY EFFICIENCY OF BUILDINGS CEN44 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES CEN45 CITY CADASTRE	34	CEN40	STRUCTURES	2	3
ective module (1 out of 3) 37.1 CEN43 ENERGY EFFICIENCY OF BUILDINGS 37.2 CEN44 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES CITY CADASTRE	35	CEN41	ENGINEERING	2	3
2 ST.2 CEN45 ENERGY EFFICIENCY OF BUILDINGS 2 ENERGY EFFICIENCY OF BUILDINGS 2 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES 2 CITY CADASTRE	36 CEN42			2	3
BUILDINGS 37.2 CEN44 BUILDINGS 2 ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES 2 CITY CADASTRE	ective mod	ule (1 out of 3)			
BUILDINGS AND STRUCTURES 2 CENAS CITY CADASTRE		051110		2	3
37.3 CEN45 CITY CADASTRE 2	37.1	CEN43		10	
Total 20			ARCHITECTURE OF UNIQUE BUILDINGS AND STRUCTURES	2	3

compuiso	ry modules			
38	CEN46	APPLIED CAD FOR CIVIL ENGINEER 2	3	5
39	CEN47	STRUCTURAL MECHANICS 2	2	3
40	CEN48	ELECTRICAL ENGINEERING AND POWER SUPPLY	3	5
41	CEN49	ENGINEERING COMMUNICATIONS AND HEATING SYSTEM	3	5
42	CEN50	WATER AND WASTEWATER ENGINEERING	3	5
lective mo	dule (1 out of 3)			
lective mo	dule (1 out of 3)			
Elective mo	odule (1 out of 3)	TECHNICAL OPERATION OF BUILDINGS AND STRUCTURES	3	5
	T	TECHNICAL OPERATION OF BUILDINGS AND STRUCTURES METROLOGY STANDARDIZATION AND CERTIFICATION IN	3	5
43.1	CEN51	TECHNICAL OPERATION OF BUILDINGS AND STRUCTURES METROLOGY STANDARDIZATION		
43.1	CEN51 CEN52	TECHNICAL OPERATION OF BUILDINGS AND STRUCTURES METROLOGY STANDARDIZATION AND CERTIFICATION IN CONSTRUCTION RECONSTRUCTION OF BUILDINGS	3	5
43.1	CEN51 CEN52	TECHNICAL OPERATION OF BUILDINGS AND STRUCTURES METROLOGY STANDARDIZATION AND CERTIFICATION IN CONSTRUCTION RECONSTRUCTION OF BUILDINGS AND STRUCTURES	3	5

		Year Four		
		Seventh semester		
Comp	ulsory modu			
45	CEN55	CONSTRUCTON ECONOMICS AND ESTIMATING	2	3
46	CEN56	CONSTRUCTION CODE	3	5
47	CEN57	CONSTRUCTION OF HIGH-RISE BUILDING.	2	3
48	CEN58	CONSTRUCTION MANAGEMENT	2	3
49	CEN59	SEISMIC RESISTANCE OF BUILDINGS AND STRUCTURES	2	3
50	CEN60	CONSTRUCTION PROJECT	3	5
51	CEN61	CONSTRUCTION SAFETY AND LABOR PROTECTION	2	3
Elective	module (1 ou	it of 3)		
52.1	CEN62	ROAD ENGINEERING AND UNDERGROUND STRUCTURES	3	5
52.2	CEN63	ASSESMENT OF THE TECHNICAL CONDITION OF BUILDINGS AND STRUCTURES	3	5
52.3	CEN64	LEGISLATION IN CONSTRUCTION	3	5
Total				28
		Eighth semester		
	Isory module	es		
53	CEN65	UNDERGRADUATE PRACTICE	5	18
54	CEN66	GRADUATION RESEARCH (PROJECT)	2	9
		8	27	
	Т	149	259	

6. Award calculation.

Each semester lasts 17 academic weeks, which includes final examinations.

Assessmentby letter system	Assessmentby digital system	%-content	ECTS grades	Assessment by traditional system		
	4.5	95-100	Α	Excellent		
A+	4.0	90-94	В	Very good		
A	3.5	85-89				
B+	3.0	80-84	C	Good		
В	2.5	75-79	_			
C+	2.0	70-74		t C -torily		
С	1.5	65-69	D	Satisfactorily		
D+	1.0	60-64		, c -ton/		
D	0.0	0-59	FX, F	Unsatisfactory		
F	0.0	Fail for abs.				
FA 0.0 Proceive positive marks are divided intofive						

Also, according to ECTS, students who receive positive marks are divided intofive categories: A - 10%, B - 25%, C - 30%, D - 25%, E - 10%. Students who havecoped with the educational program and ended up in the underperforming group are divided into two subgroups: FX (unsatisfactory - some more work is required before credit can be granted to this student), and F (unsatisfactory, this student requires significant work further, i.e. no credits are assigned).

Criteria of assessment

«A+», «A», «B+» marks are put to students who can freely operate covered materials; does not make mistakes; actively participates in the process of communication; gives full and

«B», «C+», «C» marks are put to students who knows the material well, correctly and can express it in a clear and logical way; actively participates in the process of communication; detailed answers. formulates full and detailed answers, but makes minor inaccuracies and mistakes.

«D+», «D» marks are put to students who have knowledge of basic material but have not obtained details, makes inaccuracies; gives not enough correct formulations while answering; breaks logical correction in presenting material; faces difficulties in the process of

«F» (FAIL) mark is put to a student who does not have an idea on the essence of the question; does not have answers; does not participate in the process of communication. communication.

7. Methods for evaluating and improving the quality andstandards

- The Teaching Team: Members of the team are asked to identify strengths and provision, to identify areas for improvement and requisite staff development. This is done both informally in discussions with the Programme Director and formally through Programme Committee whichmeets at least two times a year.
- Students: All students have the opportunity to comment on the programme and other relevant issues (library, IT, Student support services) through a questionnaire which is administered for each moduleat the end of the term/year. Their views are also presented to the Programme Committee by the student representatives. Individual students also have opportunities to discuss areas of concern with their personal tutor.
- Periodic Review: All existing Programmes undergo major in-depth reviewat least every concentrate on the development of the Program, on the learningexperience of students and on future plans for the Programme.

8. The assessment regulations.

The assessment regulations conform to the Kimyo International University in Tashkent regulations for taught modular programs as outlined in KIUT's Internal rules and regulations.

All assessment elements could compensate each other to achieve the minimum pass mark for the module. Non attempted elements cannot be compensated. The module mark is calculated according to the weighted average of each assessment element (MT, final, projects, tests, presentations, etc. exams) specified in the module descriptors.

Successfully passing one of the assessment elements does not automatically imply successful completion of the module.

Students arriving late and non-attempts for exams without a good reason are classified as FAIL.

9. Teaching and Learning Methods.

Lectures

Lectures are a major part of the teaching strategy for the program. Formal lectures arean effective way of transferring of basic subject material (core material) and establishing a framework for a module against which other material can be set.

Lectures provide an opportunity to deliver a broad overview of a topic and to initiatefurther research and study by students for tutorials, seminars and private study. Practical Workshops

Practical workshops are used extensively in a number of modules throughout the program. In these classes students are able to practice and refine their skills in a supportive environment where they can get feedback from a member of academicstaff. Practical workshops represent a

10. Assessment methods.

The Kimyo International University in Tashkent operates point-rating letter system for assessing educational achievements students, including eight positive marks (from "A +" to "D") with a digital equivalent (from 1.0 to 4.5 points), whichEnsure the assignment of loans, and two unsatisfactory ratings ("F" and "FA") without loans.

The ECTS grading scale includes five positive grades (from "A" to "E"), the "FX"score that can be corrected, and the "F" score without providing.