

Presentation of the study programme

1st CYCLE PROFESSIONAL BACHELOR DEGREE PROGRAMME **CONSTRUCTION MANAGEMENT (BA)**

Valid from study year 2026/2027 | Valid study programme from 01/10/2026

University of Ljubljana, Faculty of Civil and Geodetic Engineering

INFORMATION ABOUT THE STUDY PROGRAMME

1. Basic data

Programme name	Construction Management
Programme characteristics	
Type	professional bachelor degree
Cycle	1 st cycle
KLASIUS-SRV	Professional higher education (first cycle Bologna)/professional higher education (first cycle Bologna) (16203)
ISCED	architecture, urbanism and civil engineering (58)
KLASIUS-P	- Civil Engineering (not specified in detail) (5820) - Materials and structures (5821) - Construction management (5822) - Traffic structures (5823)
KLASIUS-P-16	Building and civil engineering (0732)
Frascati	Technical sciences (2)
Level SOK	Level SOK 7
Level EOK	Level EOK 6
Level EOVK	First cycle
Areas/modules/orientations	- No subdivision (study programme) - Structures (module) - Organisation (module) - Traffic (module)
Member of University of Ljubljana	Faculty of Civil and Geodetic Engineering, Jamova 2, 1000 Ljubljana, Slovenia
Duration (years)	3
Number of ECTS per year	60
Implementation of study	full time, part-time

2. Basic goals of the programme

- Educating graduates to acquire extensive general basic knowledge from the area of civil engineering, important for independent work in practice and at the same time some basic knowledge from the areas that facilitate their search for job.
- To allow students to get practical experiences from civil engineering in the beginning as well as during the study.
- To offer students a programme with elective contents that offer more detailed insight into some practical skills from the area of civil engineering and the related knowledge areas within the faculty and the university.
- To allow students to change to related first cycle study programmes and to continue with second cycle study, by taking into account the conditions foreseen by this programme.
- To allow international comparability and possibilities of changing study programmes by harmonising the study programme with the guidelines from the renewed study programmes according the Bologna Declaration based on which graduates can continue their second cycle studies in Europe and find job within the European Union.
- To increase progression of students and provide better quality by introducing regular study, with the development of general tutorship by students and teachers as well as tutorship for specific courses.
- To assure harmonisation of the programme with minimum requirements set out by the Association FEANI and thus programme accreditation for the EUR ING title.

Students acquire the necessary basic knowledge from fundamental natural and IT courses, basic knowledge from the fundamental courses of civil engineering and basic knowledge from professional civil engineering courses, taking into account the principles of sustainable development. Within elective courses in the second and third year, students may specialise and start preparing for further study according to the programmes of second cycle.

Within the study, students acquire traditional knowledge upgraded with the latest achievements, delivered in a contemporary manner with modern technology. They learn about all specifics of Slovenia and Europe as a consequence of special historic, social-economic or geographic characteristics. By working in groups, within a project

work and theme tasks they get accustomed to team work, public presentation and working with customers. With practical work in the field and in laboratories the graduates acquire the necessary skills to work in civil engineering.

To strengthen the acquired professional skills, the programme foresees continuous practical work and four-week practical training in construction and similar companies, representing also the target employment areas. Students finish the study with a thematically oriented and applicative diploma work.

The result of the programme with such structure is graduates with extensive theoretic and detailed professional knowledge, with competences to perform independent tasks from the area of civil engineering in Slovenia and in Europe.

3. General competences

With the study of Construction Management students acquire general competences such as:

- basic knowledge from the area of civil engineering,
- ability to use knowledge in practice,
- ability to be autonomous in professional work,
- development of communication skills and abilities, especially communication in international environment,
- taking into account safety, functional, economic, sustainable, environmental and ecologic aspects of work,
- ability to learn,
- ability to take decisions,
- oral and written communication skills in the Slovenian language,
- basics of computer science,
- ethic reflection and commitment to professional ethics,
- knowledge of a foreign language,
- cooperative skills, abilities to work in a group and in international environment.

4. Course-related competences

With the study of Construction Management students acquire mainly course-related competences such as:

- professional knowledge from the area of civil engineering: mainly from the field of design, organisation, management and regulation of construction works and construction manufacturing, computer-aided design, ecology, spatial planning and environmental issues,
- independent design of individual structural elements,
- understanding interdependencies between technical and environmental problems and the ability to conceive and design environment-friendly building structures,
- performing specific less demanding tasks from the area of civil engineering for independent and team work as well as cooperation in managing existing technological procedures of the activities described in the first paragraph,
- recognizing, formulating and solving realistic, generally typical work problems by using different procedures,
- managing basic knowledge from the area of civil engineering (natural sciences, mathematics, information science, mechanics, building materials) and ability to connect knowledge with different areas and applications,
- application of knowledge in specialised areas of civil engineering (structures, traffic, hydraulics, construction management),
- development of skills and abilities in using knowledge from the area of civil engineering,
- knowledge and understanding of the basics and historic development of civil engineering with an assessment of the role in sustainable development and impacts on sustainable development,
- understanding general structure of the basic discipline and its link with sub-disciplines,
- application of information-communication technology and systems, most frequently used in civil engineering practice.

5. Conditions for enrolment

To enrol to the professional bachelor degree programme Construction Management the candidates are required to:

- a) pass school-leaving exam in a four-year secondary school programme;
- b) professional matura exam;

c) or matura exam.

Candidates also meet the criteria for enrolment, if they finish education of the same level abroad.

6. Selection criteria when enrolment is restricted

In case of restricted enrolment, candidates will be selected according to:

- general success in school-leaving exam or (professional) matura exam 60 %
- general success achieved in the final two years of secondary school 40 %.

7. Criteria for recognising knowledge and skills acquired before enrolment in the programme

Knowledge conforming in contents and scope to the contents of the courses in the programme Construction Management may be acknowledged. The recognition of knowledge and skills acquired before the enrolment is subject to the decision by the Study Board of the Department of Civil Engineering of UL FGG based on student's written application, certificates and other documents that prove successful acquisition of knowledge and the contents of the knowledge, and in accordance with the Rules on procedure and criteria for the recognition of informally acquired knowledge and skills, adopted at the 15th meeting of the Senate of UL, 29. 5. 2007.

Based on the approval of the acquired knowledge by the departmental Study Board, the knowledge will be evaluated with the same number of ECTS credit points as defined for the related course.

8. Methods of assessment

The assessment methods are in accordance with [the Statute of University of Ljubljana](#) and listed in the Course Syllabi.

9. Conditions for progression through the programme

Conditions for progression from one year to another

Student can enrol in the second year if, by the end of the academic year, he/she has fulfilled the prescribed obligations and achieved 54 ECTS credits from the first year. Student can enrol in the third year if, by the end of the academic year, he/she has fulfilled the prescribed obligations and achieved at least 54 ECTS credits from the second year and completed all the prescribed obligations and achieve 60 ECTS credits from the first year.

Exceptionally, students may apply for enrolment to the next study year, if they complete all mandatory contents according to the study programme and achieve at least 40 credit points in the current year and gives evidence of justified reasons. Justified reasons are defined by the UL Statute. Exceptional enrolment is the course of the decision by the Commission for solving student applications at UL FGG.

Students with above-average study results are allowed to advance at a faster rate. An adequate decree thereof shall be adopted by the Dean of UL FGG on a candidate's application and on opinion of the Study Board of the Department of Civil Engineering at UL FGG. The decree also defines the principles of faster advancement.

Conditions for repeated enrolment in the same year: Failing to meet all the obligations defined by the study programme for the advancement in the next year, students may enrol in the same year for the second time. They are entitled to the repeated enrolment only once for the duration of the study, provided that they achieve at least 30 credit points according to ECTS.

10. Transfers between study programmes

Transfer between programmes shall mean termination of education in the student's original study programme (first programme) and continuation of education in the first cycle professional study programme of Construction Management (second programme), in which a part of the completed study requirements from the first study programme are recognised as completed.

Transfers are possible from the first cycle study programmes, and until their expiration also from the undergraduate study programmes adopted after June 11 2004, where the competences of the finished studies are comparable and according to the acknowledgement criteria at least half of the obligations according to ECTS from the first study programme related to compulsory courses of the second study programme can be acknowledged. Considering the

scope of acknowledged obligations from the first study programme in the Republic of Slovenia or abroad student may enrol to the same or higher year in the second study programme. Transferring students shall fulfil the conditions for the enrolment to the second study programme.

Applications of candidates for the transfer to the first cycle in the first cycle professional study programme Construction Management and the scope of acknowledged obligations in the study programme will be examined individually by the Study Board of the Department of Civil Engineering. If in the procedure of acknowledging obligations for the purpose of transfer the candidate is approved at least the amount of credit points and those point that are required for the enrolment to a higher year of the first cycle professional study programme Construction Management, the candidate may enrol to the higher year of the first cycle professional study programme Construction Management.

11. Conditions for completion of the study

Students finish the study by accomplishing the foreseen obligations totalling 180 credit points according to ECTS, including practical training and diploma thesis.

12. Conditions for completion of individual parts of the programme

The Study is uniform.

13. Qualification, professional or academic title (male)

- diplomirani inženir gradbeništva (VS)
(first cycle graduate in civil engineering)

14. Qualification, professional or academic title (female)

- diplomirana inženirka gradbeništva (VS)
(first cycle graduate in civil engineering)

15. Qualification, professional or academic title (abbreviation)

- dipl. inž. grad. (VS)

STUDY PROGRAMME COURSES WITH FOORSEEN COURSE COORDINATORS

16. No subdivision (study programme)

1st year, mandatory

	University Course Code	Course title	Lecturers	Contact hours					Independent work	Total hours	ECTS	Semester	Elective
				Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work					
1.	0038083	Physics	Jure Kokalj	45	15	30	0	0	90	180	6	1st	no
2.	0038084	Engineering Communication	Tomo Cerovšek	30	0	0	15	0	45	90	3	1st	no
3.	0038085	Engineering Mathematics I	Gašper Jaklič, Nik Stopar	45	0	45	0	0	90	180	6	1st	no
4.	0038086	Municipal Economics and Construction Legislation	Daniel Kozelj	30	0	30	0	0	60	120	4	1st	no
5.	0038087	Buildings	Mitja Košir	60	15	0	45	0	120	240	8	1st	no
6.	0038088	Introduction to Civil Engineering		45	0	0	0	0	45	90	3	1st	no
7.	0038089	Geodetic engineering	Aleš Marjetič	30	0	0	15	0	45	90	3	2nd	no
8.	0038090	GIS and Spatial Records	Irena Strnad Trček	15	15	0	15	0	45	90	3	2nd	no
9.	0038091	Construction and building materials	Violeta Bokan-Bosiljkov, Vlatko Bosiljkov	45	0	0	45	0	90	180	6	2nd	no
10.	0038092	Hydromechanics and Hydraulics	Gašper Rak, Gorazd Novak	45	15	0	30	0	90	180	6	2nd	no
11.	0038093	Computer Science	Matevž Dolenc	30	15	0	15	0	60	120	4	2nd	no
12.	0038094	Statics	Dejan Zupan, Peter Češarek	60	0	60	0	0	120	240	8	2nd	no
Total				480	75	180	165	0	900	1800	60		

2nd year, mandatory

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work	Independent work	Total hours	ECTS	Semester	Elective
1.	0038095	Engineering Mathematics II	Gašper Jaklič, Marjeta Kramar Fijavž	45	0	30	0	0	75	150	5	1st	no
2.	0038096	Fundamentals of Soil Mechanics	Jasna Smolar, Petra Štukovnik, Matej Maček	45	0	0	25	5	75	150	5	1st	no
3.	0038097	Surface drainage and sewerage	Mario Krzyk, Simon Rusjan	30	15	15	0	0	60	120	4	1st	no
4.	0038099	Design and Construction of Roads	Peter Lipar	45	0	0	45	0	90	180	6	1st	no
5.	0038098	Strength of Materials	Dejan Zupan, Goran Turk	60	0	45	0	0	105	210	7	1st	no
6.	0038100	Geotechnical Constructions	Boštjan Pulko	60	10	0	45	5	120	240	8	2nd	no
7.	0038101	Timber Structures	Drago Saje, Jože Lopatič	30	0	30	0	0	60	120	4	2nd	no
8.	0038102	Fundamentals of Concrete and Masonry Structures	Tatjana Isaković, Matija Gams	60	0	60	0	0	120	240	8	2nd	no
9.	0038103	Structural Analysis	Matija Gams, Tatjana Isaković	30	0	30	0	0	60	120	4	2nd	no
10.	0643671	Elective course(s)		60	15	60	0	0	135	270	9	All-year	yes
Total				465	40	270	115	10	900	1800	60		

3rd year, mandatory

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work	Independent work	Total hours	ECTS	Semester	Elective
1.	0038566	Concrete Objects	Jože Lopatič, Sebastjan Bratina	30	0	30	0	0	60	120	4	1st	no
2.	0038567	Organisation and Management of Construction Works	Robert Klinc	45	0	45	0	0	90	180	6	1st	no
3.	0038568	Fundamentals of Steel Structures	Jože Korelc, Leon Hladnik	45	15	45	0	0	105	210	7	1st	no
4.	0038565	Technological Processes	Andrej Kryžanowski, Bojan Čas	30	0	45	0	0	75	150	5	1st	no
5.	0067392	Elective course		30	0	0	30	0	60	120	4	1st	yes
6.	0067388	1. Module course		30	0	0	30	0	60	120	4	1st	yes
7.	0038570	Practical Training	Matevž Dolenc	6	0	0	0	160	74	240	8	2nd	no
8.	0038569	Diploma work		0	0	0	0	150	150	300	10	2nd	no
9.	0067389	2. Module course		30	0	0	30	0	60	120	4	2nd	yes
10.	0067390	3. Module course		30	0	0	30	0	60	120	4	2nd	yes
11.	0067391	4. Module course		30	0	0	30	0	60	120	4	2nd	yes
Total				306	15	165	150	310	854	1800	60		

Elective courses

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work	Independent work	Total hours	ECTS	Semester	Elective
1.	0038081	Fire Resistance of Structures	Tomaž Hozjan	45	0	30	0	0	75	150	5	1st, 2nd	yes
2.	0643477	Water Supply	Nataša Atanasova, Primož Banovec	20	10	15	15	0	60	120	4	1st	yes
3.	0643478	Sustainable engineering	Matjaž Mikoš	30	15	15	0	0	60	120	4	1st, 2nd	yes
4.	0643479	Universally designed sustainable and green building for health and wellbeing	Mateja Dovjak, Alenka Plemelj Mohorič	35	30	0	25	0	90	180	6	2nd	yes
Total				130	55	60	40	0	285	570	19		

Structures (module)**3rd year, mandatory**

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work	Independent work	Total hours	ECTS	Semester	Elective
1.	0038068	Fundamentals of Earthquake Engineering	Matjaž Dolšek	30	0	0	30	0	60	120	4	1st	yes
2.	0038895	Bioclimatic Buildings	Mitja Košir	30	0	0	30	0	60	120	4	2nd	yes
3.	0038069	Steel Buildings	Primož Može	30	0	0	30	0	60	120	4	2nd	yes
4.	0038070	Computer-Aided Design	Matija Gams, Tatjana Isaković	30	0	0	30	0	60	120	4	2nd	yes
5.	0038071	Concrete Bridges	Jože Lopatič	30	0	0	30	0	60	120	4	2nd	yes
Total				150	0	0	150	0	300	600	20		

Organisation (module)

3rd year, mandatory

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work	Independent work	Total hours	ECTS	Semester	Elective
1.	0038048	Quality Assurance and Quality Control	Žiga Turk	30	0	30	0	0	60	120	4	1st	yes
2.	0038051	Fundamentals of Economics in Civil Engineering	Primož Banovec, Robert Klinc	30	0	30	0	0	60	120	4	2nd	yes
3.	0038050	Project Planning and Management	Robert Klinc	30	0	0	30	0	60	120	4	2nd	yes
4.	0038049	Building Land Development and Valuation	Daniel Kozelj	30	0	0	30	0	60	120	4	2nd	yes
Total				120	0	120	0	0	240	480	16		

Traffic (module)

3rd year, mandatory

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Seminar tutorials	Laboratory tutorials	Other work	Independent work	Total hours	ECTS	Semester	Elective
1.	0038899	Traffic	Rok Marsetič	30	0	0	30	0	60	120	4	1st	yes
2.	0038900	Geotechnics of Traffic Structures	Matej Maček	30	0	0	30	0	60	120	4	2nd	yes
3.	0038901	Intelligent Transport Systems	Rok Marsetič	30	0	0	30	0	60	120	4	2nd	yes
4.	0038902	Design and Construction of Railways	Robert Rijavec, Darja Šemrov	30	0	0	30	0	60	120	4	1st, 2nd	yes
Total				120	0	0	120	0	240	480	16		

17. Possibilities of elective courses and mobility

Elective courses are foreseen in the 2nd year (9 ECTS), and in the 5th semester of the 3rd year (4 ECTS). Student can choose a maximum of 5 % of the external electives of the study program. The set of optional professional elective course is represented by modules in the 6th semester of the 3rd year (16 ECTS). Among elective courses from UL FGG, students are recommended to select courses also from other modules of this programme and from other study programs of UL FGG and other study programs, at another member of the University of Ljubljana and within the framework of the Centre for Extracurricular activities at UL.

Student may transfer 30 ECTS points of the programme (one study semester, regardless of mandatory and elective units) from any other area of civil engineering, provided there exists an adequate agreement signed with UL FGG.