		Facu	lty of (Civil Er	nginee	ring ar	nd Env	vironmental Science	es			
Field of study								Degree level and programme type				
Specialization/ diploma path								Study profile	Academic profile			
Course name	Light gauge framing in steel buildings according to Eurocode 3						Course code	IS-FCEE-00235S				
				-			-	Course type	Erasmus			
Forms and number of	L	С	LC	Р	SW	FW	S	Semester	summer			
hours of tuition	30			30				No. of ECTS credits	5			
Entry requirements		St	rength	of ma	terials	, Struc	ctural ı	mechanics, Genera	l construction			
Course objectives	The aim of education is to get the students theoretical knowledge of the design of Light gauge Steel Structures according to Eurocode 3											
Course content	Cold-formed Steel Sections; Types of Cold-formed Steel Sections Individual structural framing members; Panels and decks; Manufacturing; Roll forming; Folding, Press braking. Peculiar characteristics of cold-formed sections, Problems of Cold-formed Steel Design, Buckling Strength of Cold-formed Members, Torsional rigidity, Web Crippling Connections - Bolting, Blind rivets, Self-drilling screws, Self-tapping screws, Fired pins, Arc-welding; Ductility and plastic design; Design assisted by testing; Corrosion resistance; Metal coating, Paint coating; Fire resistance											
Teaching methods				prot	olem le	cture, c	ase st	tudy, project preparation				
Assessment method					or	al exan	n, proje	ect assessment				
Symbol of learning outcome				Lea	arning	outcor	nes		Reference to the learning outcomes for the field of study			
L01		ent has tures	s knowl	edge re	egardir	ng the li	ight ga	uge steel	K_W05			
LO2			ws the		and pro	cedure	es relat	ed to the design of	K_W13			
LO3			ible to i e tools			o the s	teel co	nstructions and	K_U08			
LO4			ı make teel bu			oriate to	ools an	nd procedures	K_U12			
LO5	Stud non-f	ent is a technic ding its	ware o al aspe	f the in ects and t on the	nportar d effec e civil e	ts of er	igineer	rstanding of the ring activities, nd the associated	K K02			

COURSE DESCRIPTION CARD

LO6	Student is able to contribute to the preparation of building projects, taking into account resistance and serviceability of the building elements,K_K05					
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed				
L01	oral exam, project assessment	L,	Р			
LO2	oral exam, project assessment	L,	Р			
LO3	project assessment	Р				
LO4	project assessment	Р				
LO5	project assessment	Р				
LO6	project assessment	Р				
	Student workload (in hours)	No. of hours				
	lecture attendance	30				
	participation in classes, laboratory classes, etc.	30				
	preparation for classes	60				
Calculation	participation in student-teacher sessions related to the classes	1				
	preparation for and participation in exams	10				
1	TOTAL:	131				
	Quantitative indicators	HOURS	No. of ECTS credits			
Student worl	cload – activities that require direct teacher participation	60 2,4				
	Student workload – practical activities 101					
	 Design of Cold-formed Steel Structures: Eurocode 3: Design of Steel Structures Part 1-3 Design of cold-formed Steel Structures; ECCS - European Convention for Constructional Steelwork (Editor), October 2012 Eurocode 3: Design of steel structures - Part 1-3: Design of cold-formed Steel Structures Design of steel structures - Part 1-8: Design of joints 					
Basic references	 for Constructional Steelwork (Editor), October 2012 2. Eurocode 3: Design of steel structures - Part 1-3: Design Structures 					
	 for Constructional Steelwork (Editor), October 2012 2. Eurocode 3: Design of steel structures - Part 1-3: Design Structures 	of cold-form	ed Steel			
references Supplementary	 for Constructional Steelwork (Editor), October 2012 2. Eurocode 3: Design of steel structures - Part 1-3: Design Structures 3. Design of steel structures - Part 1-8: Design of joints 	of cold-form	ed Steel cations. suing the			

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar