## **Basic data of the course Faculty of Civil Engineering** Academic unit: **Metallic Structures** Subject title: Master Level: Compulsory Subject status: Year I - semester I Year of studies: 2+2Number of hours per week: 6 **ECTS credits:** According to the Timetable Time / Place: Prof. ass.Dr Cene Krasniqi Teacher: Mr. Sc. Ali Sh Muriqi Contact details: Email: alishmuriqi@uni-pr.edu **Course description:** The course of Metallic constructions it has includes: in general lecture hours handle with themes of "Metallic Constructions", with an introduction of the history of tall metallic buildings. Afterwards we introduce the methods of choice of tall buildings base forms and foundations. Lecture of choice of bearing horizontal and vertical structure of buildings. The horizontal structure which includes flat slab structure, corrugated slab and slab with gallery An overview of bearing spatial bracing system (horizontal and vertical systems, bracing elements); explanation of basis configuration An the and disposition of columns; Exercises part deals with the design of a given example including: mid floor of tall buildings, and proposal of several variants for execution, choice and calculation of constructive systems, including flat slab and flat girders, dimensions calculation and details design of these elements (slab-girder, girder-girder and girder-columns connections) Object of study: mainly to apply knowledge from lecture **Course objectives:** and exercise parts for designing (main design draws up) buildings with typical forms and systems.

## **Subject Title:** Metallic Structures

Expected learning outcomes:	After completion of this course, students are able	
	to complete independently:	
	1. The general disposition of the high-rise building	
	with metal construction and, if necessary, may be	
	part of a design group.	
	2. Load analysis (permanent loads, wind, snow,	
	temperature change, etc.),	
	3. Static system of load-bearing beams	
	4. The most unfavorable load scheme and static	
	account	
	5. Determination of the geometry of the main load-	
	bearing elements of the structure.	

Kontributi në ngarkesën e studentit ( gjë që duhet të korrespondoj me rezultatet e të nxënit të studentit)

Aktiviteti	ore	Ditë/jave	total
lecture	2	15	30
Theorical/laboratory exercise	2	15	30
Practical work	4	2	8
Contact with professor /	1	0	o
consult	1	0	0
Exercise in site			
Colloquium, seminar	2	2	4
homework	2	4	8
Student independent study			
time (in library or at home)	2	15	30
Final preparation for exam	4	Δ	16
	-	<b>T</b>	10
Time for evaluation (test,	4	2	8
quiz, final exam)	•	-	<b>.</b>
Projects, presentation, etc	4	2	8
Total			150
Methodology of teaching:	Lecture, numerical exercises, discussions during lecture and exercise in groups ; site visits during different phases of building.		
Evaluation method:	for evaluation show	uld he taken into acco	unt: nercentage of
	participation, parcial/intermediar estimation for final estimation. One of estimation method is as follows:		
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	estimation. One of estimation frequent presence participation in sit seminar work Final exam Total	method is as follows: : 10% e visit 5% 15% 70% 100%final).	

Basic Literature:	Konstruksionet e ndërtesave metalike, prof.dr. Afrim Vokshi		
Additional Literature:	1. Konstruksionet e celikut në ndërtimtari nga		
	autoret (Zaric, Budievac dhe Stipanic)		
	<b>2.</b> Konstruksionet mikse celik-beton nga Drago		
	Horvatic`		
	<b>3.</b> Normativat Eurocode 1.2.3 dhe 4		
Zhvillimi i kurrikules			
Java	Ligjeratat		
Week 1:	Introduction and base selection of tall buildings		
Week 2:	Constructive load-bearing system and foundations		
Week 3:	structures of high-rise buildings		
Week 4:	Horizontal bearing construction		
Week 5:	Types of mid floor structures		
Week 6:	Types of flat slab of mid floor construction		
Week 7:	Monolithic slabs, prefabricated thin slabs and prefabricated mounting		
	slabs		
Week 8:	Profiled sheet metal slabs and mixed slabs		
Week 9:	Longitudinal beams under the floor and transverse beams		
Week 10:	Connections and extensions		
W. 1. 11.	Connection of longitudinal beams under the floor with transverse		
week 11.	beams		
Week 12:	Columns		
Week 13:	Column mounting extension.		
Week 14:	Connection of the the columns with the foundations		
Week 15:	Stiffness elements, Horizontal stiffness elements, Vertical stiffness		
	elements		
Academic Policies and Code of Conduct			
Tools used during lessons should be cleaned and appropriately stored at the end of the class			
lesson.			
Mobile / smart phones and other electronic devices (eg. iPods) should be turned off (or silent			

Mobile / smart phones and other electronic devices (eg. iPods) should be turned off (or silent mode) and not exposed during school hours.

Laptops and tablet computers are only allowed to be used silently; other activities such as checking personal email or browsing websites are prohibited.