

## Course Syllabus: Technics of high-Rise Building

ourse Basic Information			
<b>Academic Unit:</b>	<b>Faculty of Civil Engineering</b>		
<b>Course Name:</b>	<b>Technics of High-rise building</b>		
<b>Level:</b>	<b>Bachelor</b>		
<b>Course Status:</b>	<b>Elective</b>		
<b>Year of Study:</b>	<b>III– (third)</b>		
<b>Number of Hours per Week:</b>	<b>2+1</b>		
<b>ECTS Credits:</b>	<b>3</b>		
<b>Time /Venue:</b>	<b>According to the Timetable</b>		
<b>Course Teacher:</b>	<b>Prof. ass. Dr. Esat Gashi</b>		
<b>Contact Details:</b>	<a href="mailto:florim.grajcevci@uni-pr.edu">florim.grajcevci@uni-pr.edu</a> <a href="http://www.fn.uni-pr.edu">www.fn.uni-pr.edu</a>		
<b>Course Description:</b>	Monolithic constructions, semi-fabricated constructions, fabricated constructions, mixed concrete / steel constructions, multi-story buildings, skyscraper construction methods, vertical transport, formworks and high-rise skyscraper, concrete techniques for high rise building, concrete curing. Concert halls & conferences, stadiums, airports etc.		
<b>Course Goals:</b>	To acquire technical knowledge on the characteristics of high-rise buildings so that engineers can apply theoretical knowledge to the practical work during the construction of different objects. The vast majority of Bachelor Engineers do their first practical work on the construction of various objects that are mostly high-rise objects and these topic gives a lot of answers to the challenges which appears in the practical work of an Engineer.		
<b>Expected Learning Outcomes:</b>	By acquiring this Engineering knowledge, the Engineer of the Bachelor degree acquires knowledge and competencies for the execution of similar projects in professional life. He will be knowledgeable about the types of constructions, advantages and the disadvantages of applying different methods during the building as well as general information for the construction of large magnitude objects such as: high-raise buildings. Concert halls & conferences buildings, stadiums, airports etc.		
Student Workload (Consistent with the Learning Outcomes)			
Activity	Activity	Activity	Activity
Lectures	2	15	30
Theory/ Lab Work/Exercises	1	15	15
Practical Work	1	2	2
Consultations with the teaher	1	5	5
Field Work	1	1	1
Test, seminar paper			
Homework	1	2	2
Self-study (library or home)	1	5	5
Preparation for final exam	1	3	3

Assessment time (test, quiz, final exam)	2	4	8
Projects, presentations, etc.	2	1	2
Site Visits of the Buildings	1	2	2
Student Workload			
<b>Total</b>			<b>75</b>
<b>Teaching Methods:</b>			
	<i>(Lectures, exercises during lessons using different materials, group work of 25 students in a project (independent work), individual homework).</i>		
<b>Assessment Methods:</b>			
	<i>(The pass rate of the course is 50%. Student attendance 70%; Individual homework performed 30%; Individual homework performed 70%; evaluation by tests 30%; Final exam 70%.</i>		
<b>Literature</b>			
<b>Primary Literature:</b>			
	<i>Literature for the internet from the subject field</i>		
<b>Additional Literature:</b>			
	<ul style="list-style-type: none"> <li>• Tehnologija visokogradnje – nastavni materijal, Gradjevinski Fakultet, Sveuciliste Zagreb 2015,</li> <li>• CHUDLEY R, GREEN R, - Advanced Construction Technology – Prentice Hall, 2006</li> </ul>		
<b>Design and Teaching plan:</b>			
<b>Week</b>	<b>Title of the Lecture</b>		
<b>Week 1:</b>	Course introduction, content, notions and definitions.		
<b>Week 2:</b>	Characteristics of construction production		
<b>Week 3:</b>	Monolithic constructions		
<b>Week 4:</b>	Semi-prefabricated constructions		
<b>Week 5:</b>	Montage constructions		
<b>Week 6:</b>	Mixed constructions		
<b>Week 7:</b>	Concreting at height		
<b>Week 8:</b>	Scaffolding and rafters for high-rise concreting		
<b>Week 9:</b>	Vertical transport		
<b>Week 10:</b>	Treatment of wet concrete		
<b>Week 11:</b>	Tall buildings - skyscrapers		
<b>Week 12:</b>	Conference, concert and meeting rooms		
<b>Week 13:</b>	stadiums		
<b>Week 14:</b>	Nearby		
<b>Week 15:</b>	Recapitulation of the subject		

**Academic Policies and Rules of Civility:**

*We start and finish class on time.*

*Tools used during class must be cleaned and stored away at the end of class.*

*Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.*

*Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.*