

Course title: Techniks of Low-Rise Buildings

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Techniks of Low-Rise Buildings		
Level:	Bachelor		
Course Status:	Elective		
Year of Study:	III semester V		
Number of Classes per Week:	2+1		
ECTS Credits:	3		
Time /Location:	According to the Timetable		
Teacher:	Prof.ass.Dr. Esat Gashi		
Contact Details:	Email: esat.gashi@uni-pr.edu www.fn.uni-pr.edu		
Course Description:			
Course Description:	Technological analyzes for the implementation of construction projects. Earthworks and equipment for the execution of earthworks as well as other necessary machinery for these works. Scaffolds for concrete works. Concrete as material for construction works. Equipment for the production of concrete. Work on asphalt works and equipment for these works. Bridges and tunnels		
Course Goals:			
Course Goals:	Obtain technical knowledge for the technological analysis of production processes in construction as well as the manner of execution of earthworks in construction projects considering the fact that in each construction project a earthwork are needed. Knowledge about the necessary low construction equipment and their dimensioning. Knowledge of concrete and asphalt works as well as initial knowledge for bridges and tunneling works as two of the most challenging projects in construction engineers		
Expected Learning Outcomes:			
Expected Learning Outcomes:	Acquiring this Engineering knowledge for Engineering Bachelor degree provides knowledge and competencies for the execution of similar projects in professional life. The new Engineer will be familiar with the preparation of the technological analysis of the construction processes and the dimensioning of the equipment for the execution of construction works.		
Student Workload (should be in compliance with student's Learning Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	1	15	15
Practical Work			
Consultations with the teacher			
Field Work			
Test, seminar paper	1	15	15
Homework	1	5	5
Self-study (library or home)	1	5	5
Preparation for final exam	1	5	5
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.			
Total			75

Teaching Methods:	Lectures, classroom exercises using different materials, group work of 25 students in a project (independent work), individual homework.
Assessment Methods:	The passing rate of the course is 50%. Student attendance 70%; Individual tasks performed in the classroom 30%;
Primary Literature:	<i>Prof.asist.Dr. Esat Gashi – Teknologjia e ndërtimit të ulët, ligjerata te autorizuara. Prishtine 2017.</i>
Additional Literature:	KOVAČ B, BRANA P, VIDAKOVIĆ D,– Tehnologjia gradjenja – University of Osijek, Croatia, 2016,

Designed teaching plan		
Week	Title of the Lecture	Exercise
Week 1:	Course introduction, content, notions and definitions.	Introduction to the subject and division into groups
Week 2:	Characteristics of construction production	Dimensioning of construction production
Week 3:	Technological Process Analysis - MKP Process Charter Method and MAR Flow Analysis Method	Process card method
Week 4:	Earthworks, soil types and their categorization	Flow diagram method
Week 5:	Mechanization of earthworks - Excavation	Dimensioning of mechanization for earthworks
Week 6:	Mechanization of earthworks - transport and compaction	Practical effects of dozers, excavators, rollers, etc.
Week 7:	Skeleton in construction	Synchronization of construction machines
Week 8:	Scaffolds in construction	Controlling exercise
Week 9:	Concrete and additives as well as equipment for concrete production	Dimensioning of scaffolding and rafters.
Week 10:	Asphalt and paving equipment	Dimensioning of concrete factories.
Week 11:	Bridges and their construction	Dimensioning of asphalt bases
Week 12:	Tunnels and their work	Synchronization of concrete and asphalt paving equipment
Week 13:	Plato and their work	Dimensioning of cranes
Week 14:	Crane towers and equipment for vertical transport	Preparation for control exercises for the exam
Week 15:	Recapitulation of the case	Preparation for control exercises for the exam

Academic Policies and Code of Conduct
<ul style="list-style-type: none"> • <i>We start and finish class on time.</i> • <i>Tools used during class must be cleaned and stored away at the end of class.</i> • <i>Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.</i> • <i>Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.</i>

Note | If a student has more than 3 class assignments evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.