Course title: Construction Organization and Technology

Course Basic Information	
Academic Unit:	**Faculty of Civil Engineering**
Course Name:	**Construction Organization and Technology**
Level:	**Bachelor**
Course Status:	**Mandatory**
Year of Study:	**III**
Number of Hours per Week:	**2+1**
ECTS Credits:	**3**
Time /Venue:	**According to the Timetable**
Course Teacher:	**Dr.Ilir Rodiqi**
Contact Details:	e-mail: ilir.rodiqi@uni-pr.edu www.fn.uni-pr.edu
Course Description:	Engineering projects, the difference of construction production compared to industrial production. Construction projects, construction organization projects, Tenders, Dimensions of construction works, Working norms, Construction technology, operational planning, workshop arrangement.
Course Goals:	Obtaining technical knowledge for engineering projects in general and respectively for construction projects in particular. Familiarity with the dimensions of construction works and norms in construction as well as with the types of construction and adequate technologies for construction. As well as obtaining preliminary knowledge for the development of dynamic plans for the calculation of time, manpower, mechanization and finances. Information regarding the arrangement of the workshop with accompanying facilities, their planning, design, construction and maintenance.
Expected Learning Outcomes:	• Preparation of the construction organization project • Production of pre-measurements, pre-calculations • Division of labor into positions. • Work planning dynamic time plan • Construction plan work Resource planning of a project

Student Workload (Consistent with the Learning Outcomes)			
Activity	**Activity**	**Activity**	**Activity**
Lectures	2	15	30
Theory/ Lab Work/Exercises	1	15	15
Practical Work			
Consultations with the teaher			
Field Work	3	5	15
Test, seminar paper			
Homework	2	3	6
Self-study (library or home)	1	5	5

Preparation for final exam	4	1	4
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.			
Site Visits of the Buildings			
Student Workload			
Total			**75**
Teaching Methods:	*Lectures, class exercises, one individual project work (independent work). Team work project at construction site.*		
Assessment Methods:	• Individual assignments completed in class 30%; • Individual assignments completed at home 30%; • Exam 40%.		
Literature			
Primary Literature:	*1.* Rodiqi, I.: "Construction Management", FNA, Prishtinë, 2004 *2.* Rodiqi I.: "Construction Organization and technology – Exercises (Manuscript), Pristinë, 1993.		
Additional Literature:	KOVAČ B, BRANA P, VIDAKOVIĆ D,– Organizacija i Tehnologija gradjenja – University of Osijek, Croatia, 2016,		

Design and Teaching plan:		
Week	**Title of the Lecture**	**Exams**
Week 1:	Course introduction, content, notions and definitions.	Course introduction and grouping
Week 2:	Characteristics of construction production in comparison with industrial production, construction projects, construction organization projects.	Monolithic objects, montages and mixes
***Week 3*:**	Preparation of technical documentation of a project, pre-measurement of construction works	Pre-measurement work of an object
Week 4:	Standardization of work in construction	Standardization of work in construction
Week 5:	Price analysis in construction	Price analysis
***Week 6*:**	Preparation of pre-accounts of a project and its financial part	Preliminary calculation of construction works
Week 7:	Competitions and obtaining a construction project and implementation phases	Colloquium I
Week 8:	Mechanization in construction	Calculations of Practical Mechanization Effects of:
Week 9:	Machines for earthworks	Earthworks
Week 10:	Concreting and asphalting machines	Production and suffering in the work of concrete
***Week 11*:**	Vertical lifting machines	Cranes and synchronization of machine mechanization in groups
***Week 12*:**	Dynamic planes, Gantt chart method	Time analysis of construction positions - gantt chart method

***Week 13*:**	Network Method, Tabular and Histogram	Network method
***Week 14*:**	Arrangement of the workshop and dimensioning of the warehouses	Histogram
***Week 15*:**	Recapitulation of the case	Colloquium II

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.*

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