Course title: Probability and Statistics

Course Basic Information							
Academic Unit:	Faculty of C	ivil Engineering					
Course title:	Probability a	and Statistics					
Level:	Bachelor						
Course Status:	Elective						
Year of Study:	I first, secon	d semester					
Number of Classes per Week:	2+1						
ECTS Credits:	3						
Time /Location:	According to	o the time table					
Teacher:	Prof.Dr.Abd	lullah Zejnullahu	l				
Contact Details:	email: abdulla	h.zejnullahu@uni-p	pr.edu www.fn.uni-pr.edu				
Course Description:	The course d	eals with knowled	lge from statistics and numerical				
•	methods relate	ed to facilitating th	ne acquisition of knowledge from				
	other subjects	and the application	of knowledge in civil engineering.				
Course Goals:	Introduction to knowledge of mathematical statistics and probability						
	theory necessary for application in mathematical concepts in the						
	field of civil e	ngineering.	L				
Expected Learning Outcomes:	Upon completion of this course / subject / student will be able						
	to use and understand correctly the notions of probability and						
	mathematical statistics in order for that knowledge to help as						
	mathematical statistics, in order for that knowledge to help as						
	an aid in other subjects where the apparatus of probability and						
	mathematical statistics is applied, and then applied it especially						
	to concrete problems related to the field of construction						
	engineering.						
	Students must be able to:						
	- understand the concept of events and communities, types						
	of events and actions with events						
	- to apply the elements of combinatorics in the theory of						
	statistics and in the unification of equally possible events						
	- to define the classical geometric and axiomatic meaning						
	of probability						
	- to present continuous and discrete random variables						
	- to present continuous and discrete random variables						
	- apply some theoretical probability distributions						
	- in the research method to apply knowledge from						
	mathematical statistics, analysis method and descriptive						
statistics.							
Student Workload (should be in compliance with student's Learnign Outcomes)							
Acuvity	Hours	Day/ Week	lotal				
Theory/Lab Work/Exercises	1	15	3U 15				
Practical Work	±	1.5					
Consultations with the teacher	2	3	6				

Field Work						
Test, seminar paper		2	3	6		
Homework						
Self-study (library or home)		3	4	12		
Preparation for final exam		1	3	3		
Assessment time (test, quiz, final		1	3	3		
exam)		-	C .			
Projects, presentations, etc.				75		
				/5		
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Accessment Methods:		Fist evaluations 20%				
Assessment methods.		Second evaluation 20%				
		Exercises assessment 10%				
	Regular presentation 5%					
	Final exam 45%					
Primary Literature:		1. A.Zejnullahu ,F.Berisha – Matematika III,1997,Prishtinë				
		2. Sh. Leka – Teoria e probabilitetit dhe statistika				
		matematike, 1998, Lirane.				
		3. Marilyn K. Pelosi, Theresa M. Sandifer- Elementary				
		4 William Navidi- Statistics for Engineers and Scientists 2006				
		USA				
Additional Literature:		1. Ll.Puka – Probabilitetit ,1998,Tiranë.				
		2. S. Bushati – Ushtrime të zgjidhura të probabilitetit dhe				
		statistikës,19	s,1999,Tiranë.			
	3. W.Feller – An introduction to probability theory and its					
	application,1970,New York					
		4. B. Ruseti – Leoria e probabilitetit dhe statistika matematike				
	I ONE II, 1975, I IFANE. 5 SElzar – Matematicka statistika, 1968, Sarajovä					
Designed teaching nlan		0 .0.Eizai	Maternatiçita Stati			
Week	Title of t	he Lecture				
Week 1:	Algebra of events					
	Definitio	n of classic, ge	natic of probability basic			
Week 2:	theorems					
Week 3:	Law of distribution of opportunities-					
Week 4:	Case variable parameters					
Week 5:	Some distributions, binomen (Bernoulli), point normal distributions					
Week 6:	Polynomial, geometric distribution					
Week 7:		a) distribution hypergeometric Exponential distribution couchy				
		values beta and hi-square distributions				
Week 8.	Moments generating function					
Week 9.	Theorems of unity and inversion					
Week 10.	Convergence Types of convergence					
Week 11.	Law of large numbers (lnm)					
Wook 12.	Law of large numbers (Inni) Pagia alamenta of mathematical statistics					
Wook 12.	Dasic elements of mathematical statistics					
Week 13: Wook 14.	Statistical analysis Statistical average					
Week 14:	Statistical average Dispersion (distribution) in directory					
week 15:	Dispersion (distribution) indicators					
Academic Policies and Code of Conduct						

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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 %.