

Course title :

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Differential Geometry		
Level:	Bachelor		
Course Status:	Mandatory		
Year of Study:	Year 2, Semester 3		
Number of Classes per Week:	2+2		
ECTS Credits:	6		
Time /Location:	According to the Timetable		
Teacher:	Prof. Dr. Abdullah Zejnullahu		
Contact Details:	abdullah.zejnullahu@uni-pr.edu		
Course Description:	The course contains those main parts: basic knowledge about vectorial algebra, space curves and surfaces.		
Course Goals:	To study vectorial functions, curves in the space, surfaces in the space and basic knowledge about their application in geodesy.		
Expected Learning Outcomes:	After finishing this course the students will be able to determine different elements of the curves and surfaces in the space and use this knowledge in concrete problems in geodesy.		
Student Workload (should be in compliance with student's Learning Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	2	15	30
Practical Work			
Study for intermediate test			
Consultations with the teacher	4	2	8
Field Work			
Test, seminar paper	1	10	10
Homework	1	15	15
Self-study (library or home)	1	25	25
Preparation for final exam	1	24	24
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.	1	8	8
Total			150
Teaching Methods:	<ul style="list-style-type: none"> -Lecture -Discussion during lectures -Exercises -Team work 		

Assessment Methods:	In evaluation, the percentage of the attendance of each partial evaluation in the final evaluation must be determined. One of the ways of evaluation would be: First Evaluation: 20% Second Evaluation: 20% Homework or other engagement: 10% Attendance 10% Final Exam 40% Total 100%
Primary Literature:	<i>Blanka Zarinac-Francula; Diferencijalna Geometrija, 1990, Zagreb</i>
Additional Literature:	<i>A.Zejnullahu ,F.Berisha –Matematika III, 1997, Prishtinë</i>

Designed teaching plan	
Week	Title of the Lecture
Week 1:	Vectorial Algebra
Week 2:	Vectorial Functions
Week 3:	Fernet's Formula
Week 4:	Flexion and torsion
Week 5:	Definition and equation for surface
Week 6:	Tangent plane and normal line
Week 7:	First differential frame First order Gauss's units
Week 8:	The length of the curve in the surface
Week 9:	The angle between two curves in the space First valuation
Week 10:	Second differential frame or rectangular
Week 11:	Normal and steep intersection of the surface
Week 12:	Main lexures, main direction
Week 13:	The Gauss lexures
Week 14:	Main curves of the lexures
Week 15:	Point classification in the surface Second Valuation

Academic Policies and Code of Conduct
<i>-The teacher sets the criteria for regular attendance at lectures and exercises and rules of etiquette as: quieting in the lesson, disconnection of mobile phone, entrance in lesson in time, mutual respect, and application of the principle one speaks everyone listens etc.</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 %.