	Course name: MATH 324 Differential Geometry			**Department:** Mathematics			Semester
							6
	Methods of Education						Credit (ECTS)
	Lecture	Recitation/ (Etud)	Lab	Exams	Homework/ Quiz	Other	Total	
	56	0	0	40	0	84	180	6

Language	English
Compulsory/Elective	Elective
Prerequisites	None

Course Contents	Week	Subjects
	1	▪ The theory of space curves
	2	▪ The theory of space curves
	3	▪ Local intrinsic properties of a surface
	4	▪ Local intrinsic properties of a surface
	5	▪ Local non-intrinsic properties of a surface
	6	▪ Local non-intrinsic properties of a surface
	7	▪ Differential geometry of surfaces in the large
	8	▪ Differential geometry of surfaces in the large
	9	▪ Tensor algebra
	10	▪ Tensor algebra
	11	▪ Tensor calculus
	12	▪ Riemannian geometry
	13	▪ Riemannian geometry
	14	▪ Applications of tensor methods to surface theory

Course Objectives	The purpose of this course is • to study important properties of curves and surfaces
Learning Outcomes and Competences	At the and of this course students will • learn important geometric properties of curves and surfaces and some application methods to them.
Textbook and /or References	An Introduction to Differential Geometry, T.J.Willmore, Dover Publications, 2012.

Assessment Criteria		If any, mark as (X)	Percentage (%)
	Midterm Exams	X	40
	Quizzes		
	Homework		
	Projects		

	Term Paper		
	Laboratory work		
	Other		
	Final Exam	X	60
Instructors			