

MATH 371

DIFFERENTIAL GEOMETRY

INSTRUCTOR : Cem Tezer

PRINCIPAL TEXTBOOK : W. Kühnel : *Differential Geometry* , Chapters 2, 3, 4.

ASSESSMENT : There will be two midterm ($MT1$, $MT2$) examinations and one final (F) examination with 100 points to be awarded in each. The number grade NG of the student will be

$$NG = 0.3(MT1 + MT2) + 0.40F .$$

Only one make-up examination will be offered for the benefit of those students who have been unable to sit for any of the midterm or final examinations. The make-up will resemble the final examination as regards its form and content and take place shortly after it. The grade obtained in the make-up examination will be treated as the grade obtained in the unattended examination.

LECTURES : Tue 8.40 - 10.30 , Th 8.40 - 10.30

OFFICE HOURS : Th 10.40 - 12.30 , Th 10.40 - 12.30

<i>Week</i>	<i>Dates</i>	<i>Subjects to be covered</i>
1	6th February - 10th February	Curves in Euclidean Spaces
2	13th February - 17th February	Reparametrisation of Curves
3	20th February - 24th February	Curvature of Plane Curves
4	27th February - 3rd March	Curvature and Torsion for Space Curves
5	6th March - 10th March	Congruence of Curves and Natural Equations
6	13th March - 17th March	First Midterm
7	20th March - 24th March	Surfaces in Euclidean Spaces
8	27th March - 31st March	Fundamental Forms of Surfaces
9	3rd April - 7th April	Curvature of Surfaces
10	10th April - 14th April	Christoffel Symbols of Surfaces
11	17th April - 21st April	Parallel Translation on Surfaces
12	24th April - 28th April	Second Midterm
13	1st May - 5th May	Geodesics on Surfaces
14	8th May - 12th May	Revision