

MATH 377 – Geometries

Department of Mathematics and Computer Sciences

Methods of Instruction	Theor.	Appl.	Lab.	Intern.	Project/Field Work	Other	Total	Credit	ECTS Credit
	42	-	-	-	-	-	42	(3 0 3)	5

Semester	Spring 2007
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Instructor	Sezgin Sezer (A-Block, 107/A, Phone: +90 312 2844500 Ext: 307) Home Page: http://ari.cankaya.edu.tr/~sezgin e-mail: sezgin@cankaya.edu.tr
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Schedule	Tuesday 11:40 – 12:30,(B-313), Friday 15:40 – 17:30,(B-313)
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Office Hours	Monday 10:40 – 11:30, Tuesday 10:40 – 11:30, Thursday 10:40 – 11:30
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Prerequisite	None
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Catalog Description	Hilbert's axioms for Euclidean geometry. Basic properties of triangles and circles. Constructions with ruler and compass. Transformations. Axioms leading to non Euclidean geometries. Models for various geometries. Introduction to affine and projective geometries.
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Textbook	Euclidean and Non-Euclidean Geometries, M. Helena Noronha, Prentice Hall, 2002,
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Reference Books	Harold R. Jacobs, Geometry, W.H.Freeman and Company, 2003
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Evaluation Criteria		Number of	Percentages
	Midterm Exams	2	50
	Homework	4	10
	Final Exam	1	40

Exam Dates	First Midterm Exam: 26 March 2007
	Second Midterm Exam: 30 April 2007

Course Description Details		
Week	Dates	Topics covered
1	12. 02 – 16. 02	Neutral Geometry
2	19. 02 – 23. 02	Neutral Geometry
3	26. 02 – 02. 03	Euclidean Plane Geometry
4	05. 02 – 09. 03	Euclidean Plane Geometry
5	12. 03 – 16. 03	Geometric Transformations
6	19. 03 – 23. 03	Geometric Transformations
7	26. 03 – 30. 03	Geometric Transformations
8	02. 04 – 06. 04	Euclidean 3-Space
9	09. 04 – 13. 04	Euclidean n-Space
10	16. 04 – 20. 04	Perimeter, Area, and Volume
11	23. 04 – 27. 04	Spherical Geometry
12	30. 04 – 04. 05	Hyperbolic Geometry
13	07. 05 – 11. 05	Models for Plane Geometries
14	14. 05 – 18. 05	The Hyperbolic Metric