Department of Mathematics
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Course	**Course Name**	**: Geometry**
	Course Code	**: KM184712**
	Credit	**: 2**
	Semester	**: 7**

Description of Course

This course provides the knowledge and understanding of the logics that begins by providing undefined elements of geometry in the form of axioms of incidence and parallel, the concept of sequence, the concept of rays, the concepts of angles and concepts of congruence. Furthermore, the following concepts will be studied and developed in the form of the theorems and proofs are analyzed and assisted by incidence geometrical objects.

Learning Outcome

PLO 1	[C2] Students are able to identify and explain foundations of mathematics that include pure, applied, and the basic of computing
PLO 2	[C3] Students are able to solve simple and practical problems by applying basic mathematical statements, methods and computations

Course Learning Outcome

1. Students able to explain undefined geometrical elements in the form of incidence geometry.
2. Students able to develop natural concepts in the form of axioms and theorems and its proof.

Main Subject

This course covers the geometry of incidence with several geometric models, the isomorphic properties and affine geometry. The concept of the order of

points on the line, on the plane and space. The position of the sequence of points is developed on the concept of the sequence of rays, angles and triangles, and developed on the concept of congruence.
Prerequisites
Reference
1. Rawuh., '' Geometri '', Edisi kesatu, Universitas Terbuka Departemen Pendidikan Nasional, Indonesia, Juli 2008 2. Glencoe McGraw-Hill., "Geometry Concepts and Applications", United States of America, 2008 3. David A. Brannan, Matthew F. Esplen Jeremy J. Gray., "Geometry", Cambridge University Press, 1999
Supporting Reference