

**DEPARTMENT OF MATHEMATICS,**

**UNIVERSITY OF KARACHI,**

**Course Outline**

**MATH 647: PROJECTIVE GEOMETRY - I**

Course contents:

Projective properties of conics, Chasle's theorem, projective generation of the conic. Homographic correspondences on the conics. Pascal's theorem. Linear systems of conics. Relation to Euclidean geometry.

**Books Recommended:**

1. Maxwell, E. A., Methods of Plane Projective Geometry, C.U.P.,1993
2. Maxwell, E. A., General Homogenous CO-ordinates in Space of Three Dimensions. C.U.U.,1999
3. Sample, J. G. and Kenton, G. T., Algebraic Projective Geometry, C.U.P.,1987