Paper Code: PS03EMTH06	**Total Credit: 4**
Title Of Paper: Geometric Topology:Homotopy,Triangulations & Surfaces	

Unit	Description in detail	Weighting (%)
I	Identification spaces: examples, quotients, topological groups, orbit spaces.	25%
II	Fundamental groups, homotopy maps, homotopy types. Calculation of fundamental Groups, Brouwer fixed point theorem.	25%
III	Triangulations, Barycentric subdivisions, triangulations and fundamental groups, Van Kampen's theorem.	25%
IV	Surfaces, classification theorem for surfaces, triangulations and orientations - Euler characteristics –surgery.	25%

Basic Text & Reference Books:-

➢ M.A. Armstrong, Basic Topology, Springer International Edition, Sringer-Verlag, 2004.
➢ J. Munkers, Topology: A first course, Prentice Hall of India, 1984.