Semester	Code	Module Title	Credits	C/E/O	GPA/NGPA
7,8	MA4220	Topics in Algebra and Topology	3	E	GPA

Hours/Week		Pre-requisites/Co-requisites	Evaluation (%)	
Lecture	Tute/Lab		CA	WE
3	0	MA2034	30	70

Learning Outcomes

After the successful completion of this course students should be able to
- Understand the basics of modern algebra with a major focus on Groups
- Understand the basics of Topology with a major focus on of Point Set Topology

Syllabus Outline

Algebra
- Groups and Group Homomorphisms
- Normal Subgroups and Factor Groups
- Fundamental Theorem of Finite Abelian Groups
- Sylow Theorems
- Rings and Ideals
- Fields and Field Extensions
- Introduction to Galois Theory

Topology
- Metric Spaces
- Continuity
- Completeness
- Topological Spaces
- Connectedness
- Compactness
- Introduction to the Fundamental Group