Semester	AUG 2022
Open to semester	13,21
Course code	**MT6154**
Course title	**Topology - I**
Credits	4 /4
Course Coordinator & participating faculty (if any)	Rama Mishra
Nature of Course	Lectures and Tutorials
Pre-requisites	Basic Point Set Topology
Objectives (goals, type of students for whom useful, outcome etc)	To make students familiar with basic algebraic Topology as well as differential Topology notions. This course is meant for First year PhD students as well as second year iPhD students.
Course contents (details of topics /sections with no. of lectures for each)	Homotopy Theory, Fundamental Groups, Covering spaces, Differentiable manifolds, Tangent bundle, Vector fields and smooth forms, Integration on Manifolds, DeRham Cohomology.
Evaluation /assessment	End-Sem Examination-40% Mid-Sem Examination-40% Others-Tow quizes 10% each%
Suggested readings (with full list of authors, publisher, year, edn etc.)	Algebraic Topology by Hatcher Differential Topology by Gullimen and Pollack