

Semester	AUG 2022
Open to semester	5,7,11
Course code	<b>MT3134</b>
Course title	<b>Point Set Topology</b>
Credits	4 /
Course Coordinator & participating faculty (if any)	Amit Hogadi
Nature of Course	Lectures
Pre-requisites	Single variable calculus, Linear Algebra.
Objectives (goals, type of students for whom useful, outcome etc)	The goal of the course is to introduce you to the basic language of point set topology which is used in later courses of differential topology, algebraic topology and other areas. The course is useful for those who wish to major in mathematics and perhaps to some mathematically inclined physics students as well.
Course contents (details of topics /sections with no. of lectures for each)	Topological spaces and continuous functions (chapter 2 of Munkress) - 8 lectures Connectedness and compactness (chapter 3)- 8 lectures Countability and separation axioms - 8 lectures. Tychonoff's theorem - 8 lectures CW-complexes - 3 lectures Examples and problems - 2 lectures.
Evaluation /assessment	End-Sem Examination-60% Mid-Sem Examination-40% Others-%
Suggested readings (with full list of authors, publisher, year, edn etc.)	Topology a First Course, by James Munkress. Publisher : Prentice-Hall 1974. Any edition will do.