

Indian Institute of Technology Kharagpur
Department of Mathematics
MA51014/MA41004: Topology (3-1-0) CRD-4
January - May 2016 Semester

Instructor: Bibhas Adhikari

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Course web page: <http://www.facweb.iitkgp.ernet.in/~bibhas/Teaching.html>

Syllabus:

Topological spaces, weak topology, subspace topology, product and quotient spaces, continuous maps and homeomorphism, Hausdorff spaces, compact and locally compact spaces, separation axioms, connectedness, paths, equivalence classes of paths, path connected spaces.

Texts:

1. J. R. Munkres, *Topology*, 2nd Ed, Prentice Hall, 2000.
2. S. Willard, *General topology*, Courier Corporation, 2004.

References:

1. Simmons, George F. *Topology and modern analysis*. Vol. 3. New York: McGraw-Hill, 1963.

Class Timings:

Slot X4: Tuesday (5:00-7:00 PM), Wednesday (3:00-5:00 PM)
Room: N325, Department of Mathematics

Grading Policy:

Quizzes (Two): 20 marks (10 marks each)

Mid-Semester Examination: 30 marks

End-Semester Examination: 50 marks

Your grades will be based on your score out of these 100 marks.

General Policy:

Requests for make-up quiz/examination will NOT be entertained.