Second Semester 2025/26

MATH 373: Introduction to Topology

Course details

Name of the course coordinator: Dr. Mohammed Guediri (Male campus)

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Book: Introduction to Topology, Jawaher Al-Mufarrij

Chapter 2: Topological Spaces

2.1 Topological Spaces
2.2 Closed Sets and Closure
2.3 Limit Points
2.4 Interior, Exterior, and Boundary of a Set
2.5 Bases and Subbases
2.6 The Subspace Topology

Chapter 3: Continuity, Homeomorphism, and Product Spaces

3.1 Continuous Functions
3.2 Homeomorphisms and Topological Properties
3.3 Finite Products of Topological Spaces

Chapter 4: Separation Axioms

4.2 Hausdorff Spaces

Chapter 5: Metric Spaces

5.1 Metric Spaces
5.2 Metric Topology
5.3 Sequences
5.4 Some Properties of Metric Spaces

Chapter 6: Compactness

6.1 Compact Spaces
6.2 Some Properties of Compact Spaces
6.3 Other Types of Compactness

Mark Distribution:
MT1: 25
MT2: 25
Tutorial: 10
Final: 40