DE LA SALLE UNIVERSITY – MANILA
COLLEGE OF SCIENCE
Mathematics Department

SYLLABUS

COURSE CODE MTH M D

Topic/Subtopic	Learning Strategies/ Activities	Week/Meeting
2Discrete and Indiscrete Spaces Finite Complement and Countable Complement Topologies 4 Finer and Coarser Topologies Closed and Open Sets		
2. The Euclidean Topology 2 The Euclidean Topology on the Real line 2 2The Euclidean Topology in 2 Basis for a Topology 24 Subbasis for a Topology	Lecture Discussions Problem Solving Use of MS Excel and or Mathematica Wolfram Alpha	Weeks 2
3. Limits Points Limit Points and Closure 2Neighborhoods 2Connectedness and Separability	Lecture Discussions Problem Solving	Weeks 4
Long Test No. 1		**Weeks 6**
4. Continuous Functions and Homemorphisms 4 Continuous Functions 4 2Intermediate Value Theorem 4 Subspaces 4 4 Homeomorphisms	Lecture Discussions Individual Group Reporting	Weeks
5. Separation Axioms T_k and T spaces 2Hausdorff Spaces T Spaces	Lecture Discussions Individual Group Reporting	Week
6. Metric Spaces Metrics and Metric Spaces 2Convergence of Sequences Completeness 4 Baire Spaces	Lecture Discussions Individual Group Reporting	Weeks 9
Long Test No. 2		Week k
7. Compactness Open Covers and Subcovers 2Compact Spaces Heine Borel Theorem 4 Local Compactness	Lecture Discussions Individual Group Reporting	Weeks k
8. Product Topology Finite Products 2Projections Urysohn s Lemma 4 General Products Tychonoff s Theorem	Lecture Discussions Individual Group Reporting	Week 2
9. Quotient Spaces	Lecture Discussions Individual Group Reporting	Week
FINAL EXAMINATION		Week 4

COURSE REQUIREMENTS

K 2Long Tests k
K Final Examination k
K Problem Sets k

SOURCES

BOOKS

- Willard S General Topology New York Dover Publications
- Hun K P Van Mill J and Simon P Recent Progress in General Topology Springer Link
- Encyclopedia of General Topology Amstredam Elsevier North Holland
- Koshi J D Introduction to General Topology New York Wiley
- Diximer Jacques General Topology New York Springer Verlag

ONLINE MATERIALS

- www math ed uk aar papers munkres pdf PDF copy of Topology by James Munkres
- www topologywithouttears net E book Morris Sidney Topology Without Tears edition

Noted by

DR ISAGANI B JOS
Chair Mathematics Department

DR JOSE SANTOS R CARANDANG VI
Dean College of Science