

MA5033 TOPOLOGY

Semester I Year 2016-2017

Lectures on Monday 9-11 & Thursday 9-10

Weekly plans:

- M1 Sets, Functions, and Cardinalities
- M2 Metric Spaces – I
- M3 Metric Spaces – II; Quiz
- M4 Continuity – I (Note: Monday is public holiday)
- M5 Continuity – II
- M6 Topological Spaces – I
- M7 Topological Spaces – II
- M8 Project Discussion – I; Test I (on Wednesday)
- M9 Subspaces and Homeomorphisms
- M10 Separation Axioms
- M11 Compact Spaces
- M12 Locally Compact Spaces; Quiz
- M13 Connected Spaces
- M14 Pathwise Connected Spaces; Continua
- M15 Project Discussion – II
- M16* Test II (on a chosen date)

Bandung, 16 September 2016

Hendra Gunawan, Ph.D.

Project Topics:

1. Baire Category Theorem
2. Fixed Point Theorem
3. The Urysohn Metrization Theorem
4. Cantor Sets
5. The Lexicographic Square