School of Mathematics

Module MA2223 — Metric spaces
(SF Mathematics, SF Two-subject Moderatorship)

Lecturer: Dr. Derek Kitson

Requirements/prerequisites: prerequisite: 121

Duration: Michaelmas term, 11 weeks

Number of lectures per week: 3 lectures including tutorials per week

Assessment: Assignments will be worth 10% of the final mark.

End-of-year Examination: This module will be examined jointly with MA2224 in a 3-hour examination in Trinity term, except that those taking just one of the two modules will have a 2 hour examination.

Description:

• Metric spaces (including open and closed sets, continuous maps and complete metric spaces)

• Normed vector spaces (including operator norms and norms on finite dimensional vector spaces)

• Topological properties of metric spaces (including Hausdorff, connected and compact spaces)

See also http://www.maths.tcd.ie/~dk/MA2223.html

Recommended Reading:

• Introduction to metric and topological spaces, W.A. Sutherland. Oxford University Press, 1975. Hamilton, S-LEN 514.3 L51 (13 copies), Open Access 514.3 L51;2


September 28, 2009