

**School of Mathematics****Module MA2224 — Lebesgue integral**

2009-10

(SF Mathematics, SF Two-subject Moderatorship )

**Lecturer:** Professor Richard Timoney**Requirements/prerequisites:** prerequisite: MA2223 (or 121)**Duration:** Hilary term, 11 weeks**Number of lectures per week:** 3 lectures including tutorials per week**Assessment:** Tutorial work 15%.**End-of-year Examination:** This module will be examined jointly with MA2223 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:** (Preliminary.) The basics of the theory of the Lebesgue integral and Lebesgue measure on the real line. Monotone and dominated convergence theorems.See <http://www.maths.tcd.ie/~richardt/2224> for additional information.

January 18, 2010