

School of Mathematics**Module MA1122 — Analysis on the real line**

2009-10

(JF Mathematics, JF Theoretical Physics & JF Two-subject Moderatorship)

Lecturer: Dr. Paschalis Karageorgis**Requirements/prerequisites:** 10 credits, prerequisite: MA1121**Duration:** Hilary term, 11 weeks**Number of lectures per week:** 3 lectures including tutorials per week**Assessment:**

End-of-year Examination: This module will be examined jointly with MA1121 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.) Intermediate Value Theorem (if not in MA1121), Rolle, Mean Value Theorem, Riemann integral, fundamental theorem of calculus, inverse functions, a formal approach to standard transcendental functions, Taylor's theorem.

April 30, 2009