

**School of Mathematics****Module MA1214 — Introduction to group theory**

2009-10

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

**Lecturer:** Dr. Rupert Levene**Requirements/prerequisites:** prerequisite: MA1111**Duration:** Hilary term, 11 weeks**Number of lectures per week:** 3 lectures including tutorials per week**Assessment:****End-of-year Examination:** 2 hour examination in Trinity term.

**Description:** (Preliminary.) Definition of a group and simple examples (permutation groups, reflection groups), Lagrange's theorem, normal subgroups and first isomorphism theorem, examples of linear groups like  $3 \times 3$  orthogonal group and  $SU(2)$ .

April 30, 2009