

School of Mathematics

Module MA2332 — Equations of mathematical physics II 2009-10
(SF Mathematics, SF Theoretical Physics, JS & SS Two-subject Moderatorship)

Lecturer: Dr. Sinéad Ryan

Requirements/prerequisites: prerequisite: MA2331

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 MA2331 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.) Sturm-Liouville theory; Partial Differential Equations; Boundary value problems; Harmonic functions; Separation of variables in cartesian and other coordinates.

Approximately the second half of previous module 231. Refer to <http://www.maths.tcd.ie/pub/official/Courses08-09/231.html>

Objectives:

Introduction to basic techniques of applied mathematics, with applications.

May 1, 2009