School of Mathematics

Course 321 — Modern Analysis 2000-01
(Optional JS & SS Mathematics, SS Two-subject Moderatorship)

Lecturer: Dr. D. P. O'Donovan

Requirements/prerequisites: 211/221

Duration: 21 weeks

Number of lectures per week: 3

Assessment: Regular assignments.

End-of-year Examination: One 3-hour examination

Description:

The branch of modern analysis the course will pursue is Functional Analysis. Thi s developed in the 1900's and this century as a gradual abstraction of the space s on which Differential and Integral Equations are solved. This is the approach the course will take. We will start with Hilbert spaces of functions and gradual ly abstract to topological vector spaces all the time studying Linear operators on these spaces.

September 29, 2000