

## LOUGHBOROUGH UNIVERSITY

### REGULATIONS FOR THE POSTGRADUATE DEGREE PROGRAMMES IN MATHEMATICAL PROCESSES IN FINANCE

These Regulations refer to the conduct of these programmes in the Session 2008/2009 but are subject to change from time to time. Notice of change will be given in subsequent editions of these Regulations. Students should enquire as to the up-to-date position when they need to know.

These Regulations are to be read in conjunction with Regulation XXI and the relevant Module Specifications.

#### STRUCTURE

1. The Programmes are the responsibility of the School of Mathematics. They are one year full-time programmes.
2. The award available to a successful student is either MSc, Postgraduate Diploma or Postgraduate Certificate .

#### CONTENT

3. The academic content of the programmes is as follows

##### 3.1 Postgraduate Modules

###### 3.1.1 Semester 1

COMPULSORY MODULES (total modular weight 30)

Code	Title	Modular Weight
MAP104	Theory of Integration and Martingales	15
MAP114	Stochastic Models in Finance	15

OPTIONAL MODULES (total modular weight 30)

Code	Title	Modular Weight
MAD102	Regular and Chaotic Dynamics	15
MAP102	Programming and Numerical Methods	15
ECP202	Financial Economics	15

###### 3.1.2 Semester 2

COMPULSORY MODULES (total modular weight 15)

Code	Title	Modular Weight
MAP204	Stochastic Calculus and Theory of Stochastic Pricing	15

OPTIONAL MODULES (total modular weight 45)

Code	Title	Modular Weight
MAD203	Functional Analysis	15
MAP201	Elements of PDEs	15
MAP202	Static and Dynamic Optimisation	15

	ECP251	Asset Management and Derivatives	15
		OR	
	ECP255	Corporate Finance	15
3.1.3	<b><i>Project Module (see 4.2 of Assessment Section)</i></b>		
	<b>Code</b>	<b>Title</b>	<b>Modular Weight</b>
	MAP300	Project	60

### 3.2 Total Modular Weighting per Semester

Students will study modules of total weight 60 in each semester.

## 4. ASSESSMENT

- 4.1 Each module in the programme will be assessed and credit awarded in accordance with the levels of achievement specified in Regulation XXI.
- 4.2 Candidates must achieve at least 90 credits before commencing MAP300 Project.
- 4.3 The eligibility of candidates on the programmes for the award of the Degree of Master, the award of a Postgraduate Diploma and the award of a Postgraduate Certificate, and for Distinction in these awards, will be in accordance with the Regulation XXI.