

LOUGHBOROUGH UNIVERSITY

REGULATIONS FOR THE HONOURS DEGREE PROGRAMMES IN PHYSICS and MANAGEMENT

These Programme Regulations refer to the conduct of this programme in the session 2010/2011 and should be read in conjunction with University Regulation XX and the relevant Module Specifications. Notice of change will be given by the Department responsible for the programme.

1 STRUCTURE

- 1.1 Administrative responsibility for the programmes rests with the Department of Physics.
- 1.2 The programmes lead to the degree of BSc.
- 1.3 The duration of the programmes is 6 semesters or 8 semesters. Students opting to take eight semesters are required to spend the year following Part B either (a) on an approved course of study at a University abroad or (b) undertaking professional training. These lead to the awards of the Diploma in International Studies or the Diploma in Industrial Studies respectively in accordance with Senate Regulation XI.

2 CONTENT

2.1 Part A - Introductory Modules

2.1.1 Semester 1

- (i) COMPULSORY MODULES (total modular weight 60)

Code	Title	Modular Weight
PHA101	Mechanics	10
PHA102	Electricity & Magnetism	10
PHA190	Information Skills	10
MAA108	Mathematics for Physics 1	10
BSA525	Financial Reporting	10
BSA505	Organisational Behaviour	10

2.1.2 Semester 2

(i) COMPULSORY MODULES (total modular weight 60)

Code	Title	Modular Weight
PHA201	Atomic & Thermal Physics	10
PHA202	Light	10
MAA208	Mathematics for Physics 2	10
BSA526	Accounting for Managers	10
BSA506	Management of Human Resources	10
BSA572	Statistics and Modelling for Management	10

(ii) OPTIONAL MODULES (none)

2.2 Part B - Degree Modules

2.2.1 Semester 1

(i) COMPULSORY MODULES (total modular weight 60)

Code	Title	Modular Weight
PHB101	Waves	10
PHB182	Physics Laboratory	10
MAB108	Mathematics for Physics 3	10
BSB555	Organisational Studies	10
BSB560	Principles of Marketing	10
BSB580	Operations Management	10

(ii) OPTIONAL MODULES (None)

2.2.2 Semester 2

(i) COMPULSORY MODULES (total modular weight 60)

Code	Title	Modular Weight
PHA290	Computing	10
PHB201	Fields	10
PHB202	Quantum Mechanics 1	10
BSB562	The Marketing Mix	10
BSB572	Management Science Methods	10

(ii) OPTIONAL MODULES (None)

Choose one optional module from:

BSB550	Company Finance	10
BSB590	The Contemporary Business Environment	10

2.3 Part I

Candidates on the four year full-time programme must undertake an approved course of study at a University abroad. Candidates on the four year sandwich programme must undertake professional training.

2.4 Part C - Degree Modules

2.4.1 Semester 1

(i) COMPULSORY MODULES – (Total modular weight 50)

Code	Title	Modular Weight
PHC110	Physics and Management Project (<i>in Department of Physics, continued in semester 2</i>)	10 (of 20)
PHB106	Nuclear Physics	10
PHB110	Solid State Physics	10
BSC570	Strategic Management	20

(ii) OPTIONAL PHYSICS MODULES

Code	Title	Modular Weight
PHC108	Modern Optics	10
PHC120	Surfaces, Thin Films and High Vacuum	10
PHC130	Fundamentals of Quantum Information	10
PHC214	Condensed Matter Physics (Continues in Semester 2)	10 of 20
BSC040	Sources of Funds/Financial Packages	10
BSC090	Language and Organisation	10
BSC105	International Human Resource Management	10
BSC110	Marketing Strategy and Planning	10
BSC120	Risk Management	10
BSC124	Marketing Communications	10
BSC522	Entrepreneurship and Innovation	10

2.4.2 Semester 2

(i) COMPULSORY MODULES (total modular weight 20)

Code	Title	Modular Weight
PHC110	Project (<i>continued from semester 1</i>)	10 (of 20)
PHB203	Thermal Physics	10

(ii) OPTIONAL PHYSICS MODULES

Code	Title	Modular Weight	
BSC042	Corporate and Wholesale Banking	10	
BSC027	International Financial Management	10	
BSC052	International Management and the Business Context		10
BSC092	Music, Work and Organisation	10	
BSC140	Lean Operations	10	
BSC112	Marketing Strategy Simulation	10	
PHC214	Condensed Matter Physics (Continued from Semester 1)	10 of 20	
PHD230	Quantum Computing	10	
DSC023	Studies in Science and Mathematics Education	10	

In Part C, in addition to PHC110, BSC570, PHB106, PHB110 and PHB203, candidates must choose optional Physics modules (PH or MA code) of total weight at least 10, and optional Business School modules (BS code) of total weight at least 20 to make up a total modular weight of 120.

2.5 Total Modular Weighting per Semester

Students normally study modules with a total weight of 60 in each semester. However, in Part C students may be allowed to study modules up to a total weight of 70 in a semester, subject to the consent of the Head of Department.

3 ASSESSMENT

3.1 *Criteria for Progression and Degree Award*

Candidates must achieve the minimum credit requirements set out in Regulation XX in order to progress through the programme and qualify for the award of the degree.

In order to progress from Part A to Part B, candidates must obtain a mark of at least 30% in all modules.

3.2 *Relative Weighting of Parts of the Programmes for the Purpose of the Final Degree Classification*

Candidates' final degree classification will be determined on the basis of their performance in degree level Module Assessments in Parts B and C in accordance with the scheme set out in Regulation XX. The average percentage marks for each Part will be combined in the ratio

$$\text{Part B : Part C} = 40 : 60$$

to determine the overall percentage mark for the Programme (the Percentage Mark).

3.3 *Re-assessment*

Provision will be made in accordance with Regulation XX for candidates who have the right of re-assessment in Parts A and B of the programme to undergo re-assessment in the University's special assessment period.