

## LOUGHBOROUGH UNIVERSITY

### Regulations for the Honours Degree Programme in

### Sports Science and Physics

These programme regulations refer to the conduct of the programme in the Session 2010/2011 for students entering in 2010 onwards 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. Administrative responsibility for the programme rests with the Department of Physics.
2. The programme leads to the Degree of Bachelor of Science (BSc).
3. The duration of the programme 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 award of the Diploma in International Studies or the Diploma in Industrial Studies respectively in accordance with Senate Regulation XI.

#### 2. Content

##### (1) *Part A - Introductory Modules*

##### *Semester 1*

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

Code	Title	Modular Weight
<u>Physics modules :</u>		
MAA108	Mathematics for Physics 1	10
PHA101	Mechanics	10
PHA102	Electricity and Magnetism	10
<u>Sports Science modules :</u>		
PSA001	Teaching and Coaching 1( <i>Continues into semester 2</i> )	10 (of 20)
PSA020	Exercise Physiology	10
PSA028	Biomechanics of Sport	10

**Semester 2**

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

Code	Title	Modular Weight
<u>Physics modules :</u>		
PHA201	Atomic & Thermal Physics	10
PHA202	Light	10
MAA208	Mathematics for Physics 2	10
<u>Sports Science modules :</u>		
PSA001	Teaching & Coaching 1 ( <i>Continued from semester 1</i> )	10 (of 20)
PSA002	Fitness and Training	10
PSA026	Foundation of Sport and Exercise Psychology	10

(2) **Part B - Degree Modules****Semester 1**

## (i) COMPULSORY MODULES (total modular weight 30)

Code	Title	Modular Weight
<u>Physics modules :</u>		
PHB101	Waves	10
PHB182	Physics Laboratory	10
MAB108	Mathematics for Physics 3	10

## (ii) OPTIONAL MODULES

Code	Title	Modular Weight
<u>Sports Science modules :</u>		
PSB211	Exercise Physiology 2 (This module continue in Semester 2)	10 of 20
PSB027	Acquiring Movement Skills	10
PSB029	Biomechanics of Sports Movements	10
PSB031	Psychological Issues and Strategies in Sport	10

**Semester 2**

## (i) COMPULSORY MODULES (total modular weight 40)

Code	Title	Modular Weight
<u>Physics modules :</u>		
PHB201	Fields	10
PHB202	Quantum Mechanics 1	10
PHB203	Thermal Physics	10

Sports Science modules :

PSB002	Structural Kinesiology	10
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## (ii) OPTIONAL MODULES

Code	Title	Modular Weight
<u>Sports Science modules :</u>		
PSB211	Exercise Physiology 2 (continued from Semester 1)	10 of 20
PSB026	Psychological Factors in Competitive Sport	10
PSB028	Methods of Analysis in Sports Biomechanics	10

Choose optional modules of total modular weight to give a total weight of 120 for the Part.

(3) **Part I**

Candidates opting to take eight semesters are required to take either (a) an approved course of study at a University abroad or (b) professional training.

(4) **Part C - Degree Modules  
Semester 1**

## (i) COMPULSORY MODULES (total modular weight 30)

Code	Title	Modular Weight
<u>Physics modules :</u>		
PHB106	Nuclear Physics	10
PHB110	Solid State Physics	10
PHC186	Physics Project Laboratory	10

## (ii) OPTIONAL MODULES

Code	Title	Modular Weight
<u>Physics modules :</u>		
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
PHD102	Cosmology	10

Sports Science modules :

PSC021	Physiology of Exercise and Health	20
PSC022	Sport and Exercise Medicine	10
PSC029	Mechanics of Sports Techniques	10
PSC031	Psychology of Sporting Excellence	20

Choose a total modular weight 90 of options in Part C, no more than 40 in semester 1 and no more than 70 in semester 2. These options must include a modular weight of 30 of Physics options and a modular weight of 60 of Sports Science options.

**Semester 2**

## (i) COMPULSORY MODULES

Code	Title	Modular Weight
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No compulsory modules

## (ii) OPTIONAL MODULES

Code	Title	Modular Weight
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Physics modules :

PHB250	Business Skills for Scientists	10
PHC207	Climate Physics	10
PHC214	Condensed Matter Physics (continued from Semester 1)	10 of 20
PHD205	Elementary Particle Physics	10

Sports Science modules :

PSC019	Applied Physiology of Sports Performance	10
PSC020	Sport Nutrition	10
PSC026	Exercise Psychology	20
PSC027	Motor Control of Sports Movement	10
PSC028	Advanced Methods of Analysis in Sports Biomechanics	10

Choose a total modular weight 90 of options in Part C, no more than 40 in semester 1 and no more than 70 in semester 2. These options must include a modular weight of 30 of Physics options and a modular weight of 60 of Sports Science options.

3. **Assessment**  
***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.

***Relative Weighting of Parts of the Programme for the purposes of 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 Part B 40: Part C 60 to determine the overall average percentage mark for the Programme (the Programme Mark).

***Re-assessment***

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