

Doctor of Philosophy Program in Sports Science (International Program)

Revised 2013

1. Name of Degree : Doctor of Philosophy (Sports Science)
: Ph.D. (Sports Science), (Mahidol University)

2. MOU : Liverpool John Moores University (LJMU) United Kingdom
*** The Students who enrolled to get Double degree (from Mahidol and LJMU) need to pass IELTS=6.5 before enter the program and study at MU 18 months and LJMU 18 months.

3. Admission Requirements

A candidate must:

1. Plan 1

1.1 Hold a Master's degree in Sports Science, Health Science or related fields
1.2 Have a grade point average of at least 3.50
1.3 Have a research work publication which is not the thesis. Publication need to be accepted by Higher Commission of Education, or in the list of SCOPUS or TCI.

The research work can published in National for 3 papers or International for 1 paper.

1.4 have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 5 .

Those who do not have any of the test score specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

2. Plan 2

2.1 Hold a Master's degree in Sports Science, Health Science or related fields
2.2 have a grade point average of at least 3.50
2.3 have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 5 .

Those who do not have any of the test score specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

For Double degree program: The applicants need to have IELTS = 6.5

4. Credits Requirement for the program as follows:

No.	Course	Plan 1	Plan 2
3.1	Core courses	-	9 credits
3.2	Elective courses	-	3 credits
3.3	Dissertation	48 credits	36 credits
Total		48 credits	48 credits

5. Course Requirements (Plan 2)

(1) Core Courses 9 Credits

Credits (Lecture-Lab-Self study)

SPSS 511	Advanced Sports Science and Human Performance	3 (3-0-6)
SPSS 512	Health Sciences in Sports and Exercise	2 (2-0-4)
SPSS 513	Seminar in Sports Science	1 (1-0-2)
SPSS 514	Research Methodology in Sports Science	3 (3-0-6)

(2) Elective Courses not less than 3 credits

SPSS 621	Advanced Biomechanics for Sports and Exercise	2 (2-0-4)
SPSS 622	Advanced Physiology for Sports and Exercise Training	2 (1-2-3)
SPSS 623	Advanced Sports Medicine	2 (2-0-4)
SPSS 624	Advanced Nutrition for Sports and Exercise	2 (2-0-4)
SPSS 625	Sports and Exercise Behaviors	2 (2-0-4)
SPSS 626	Research Seminar in Sports Science Specific Area	1 (1-0-2)

(3) Dissertation

SPSS 898	Dissertation	48 (0-144-0)
SPSS 699	Dissertation	36 (0-108-0)

6. Study Plan

Plan 1

Year	Semester 1	Semester 2
1	Qualifying examination *	Some elective course may be assigned by advisor SPSS 898 Dissertation 12 (0-36-0) Total 12 Credits
2	SPSS 898 Dissertation 9(0-27-0) Total 9 Credits	SPSS 898 Dissertation 9(0-27-0) Total 9 Credits

3	SPSS 898 Dissertation 9(0-27-0) Total 9 Credits	SPSS 898 Dissertation 9(0-27-0) Total 9 Credits
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Plan 2

Year	Semester 1	Semester 2
1	SPSS 511 Advanced Sports Science and Human Performance 3 (3-0-6) SPSS 512 Health Sciences in Sports and Exercise 2 (2-0-4) SPSS 513 Seminar in Sports Science 1 (1-0-2) SPSS 514 Research Methodology in Sports Science 3 (3-0-6) Total 9 Credits	Elective course 3 Credits Total 3 Credits
2	Qualifying examination *	SPSS 699 Dissertation 12(0-36-0) Total 12 Credits
3	SPSS 699 Dissertation 12(0-36-0) Total 12 Credits	SPSS 699 Dissertation 12(0-36-0) Total 12 Credits

7. Course Description**(1) Core Courses****(Credits (Lecture-Lab-Self study))****SPSS 511 Advanced Sports Science and Human Performance 3 (3-0-6)**

The importance of physical and mental factors affecting integrative human performance. Comprehensive knowledge and applications of physiology, psychology, sports medicine for the people and athletic training. Doping and ergogenic substances to promote physical fitness. Work-related risks and threats on health, stress, relaxation and physical fitness. Integration of various sciences to enhance human performance at work and exercises of people and athletes.

SPSS 512 Health Sciences in Sports and Exercise 2 (2-0-4)

Study of processes and mechanisms of physical deterioration and other related diseases. Corrections using exercise for promotion, prevention, treatment and rehabilitation. Exercise for health and physical fitness assessment after injury. Exercise for improvement of muscles, endocrine, heart and lungs. Exercises in ages and special groups.

SPSS 513 Seminar in Sports Science 1 (1-0-2)

Reading skill, analysis and synthesis of research methodology.

Presentation and discussion of the current research articles related to sports science including sports physiology, sports biomechanics, sports nutrition, sports psychology, sports medicine and coaching and training.

SPSS 514 Research Methodology in Sports Science 3 (3-0-6)

Research methodology and design. Selection of appropriate statistics and analysis including advanced statistics for sports science. Use of statistics software for data analysis and interpretation. advantages and disadvantages of various statistical analysis.

(2) Elective Courses

(Credits (Lecture-Lab-Self study))

SPSS 621 Advanced Biomechanics for Sports and Exercise 2 (2-0-4)

Biomechanics of joints and musculoskeletal related to sports movement. Applications of biomechanics in sports and training to maximize performance and injury prevention. Musculoskeletal model, research analysis and synthesis in biomechanics.

SPSS 622 Advanced Physiology for Sports and Exercise Training 2 (1-2-3)

Current physiologic principles of training and applications for national, international athletes and people, various training modes and methods which induce physiologic changes, modern techniques enhancing recovery, responses and adaptations to training under extreme conditions.

SPSS 623 Advanced Sports Medicine 2 (2-0-4)

Study sports medicine research, doping substances and genetics, safety exercise and sports participation with efficiency, preparation, selection, assessment, prevention, rehabilitation and solving problems with exercise and sports competition.

SPSS 624 Advanced Nutrition for Sports and Exercise 2 (2-0-4)

Current topics related with main nutritional requirements, water, vitamins and minerals for health, specific nutrition for exercise and sports, methods and tools for nutritional assessment and analysis, updated research on nutrition and impact on health promotion, prevention and treatment for disease as well as sports performance.

SPSS 625 Sports and Exercise Behavior 2 (2-0-4)

Influences of psycho-social factors on physical activity, influences of physical activity on mind via learning processes using teaching and training which strategically targeted to enhance sports performance and sustaine physical activity, knowledge and skill applied to lifestyle of athlete and people

SPSS 626 Research Seminar in Sports Science Specific Area 1 (1-0-2)

Analysis, synthesis, presentation and discussion on updated specific research which guiding to effective specific research thesis

(3) Dissertation

(Credits (Lecture-Lab-Self study))

SPSS 699 Dissertation 36 (0-108-0)

Design and identify research project, proposal presentation, investigation with ethics, data collection and analysis, synthesis and discussion, presentation and publication in international journals.

SPSS 898 Dissertation 48 (0-144-0)

Design and identify research project, proposal presentation, investigation with ethics, data collection and analysis, synthesis and discussion, presentation and publication in international journals.