Module Title	Reference AS3036 SCQF SCQF	
Nutritional Science for Sport	Level	9
_	SCQF Points	15
Keywords	ECTS Points	7.5
Physiological and metabolic adaptations,	Created April 2014	
physiological and metabolic assessment, nutritional	Approved	May
requirements in sport, sports supplements and	Approved	2014
ergogenic aids	Amended	
	Version No.	1

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module	Indicative Student Workload	
None, in addition to SHE3 entry	Contact Hours	Full Time
requirements	Lectures	36
	Tutorials	4
Corequisite Modules	Assessment	3
None.	Directed Study	
Precluded Modules	Reading	8
	Private Study	
None.	Private study	99

Aims of Module

To provide students with knowledge and understanding of the physiological, biochemical and nutritional principles applicable to the management of diet and performance in exercise and sport.

Learning Outcomes for Module

Mode of Delivery

Theoretical material is delivered by lectures and tutorials, and supported by practicals.

Assessment Plan

Learning Outcomes
Assessed

On completion of this module, students are expected to be able to:

- 1.Discuss the principles of exercise physiology and physiological methods of assessing performance.
- 2.Discuss the principles of exercise biochemistry and biochemical methods of assessing performance.
- 3.Discuss the nutritional requirements and dietary assessment in exercise and sports.
- 4.Evaluate nutritional interventions to improve performance in exercise and sport, including nutritional supplements and ergogenic aids.

Indicative Module Content

Physiological adaptations to exercise of varying intensity and duration to include neural, endocrine, musculoskeletal, cardiorespiratory, immunological and water homeostatic mechanisms; metabolic adaptations to exercise of varying intensity and duration to include fat, carbohydrate and protein metabolising pathways; physiological and biochemical mechanisms of exercise fatigue; nutritional consequences of

Component 1	1,2,3,4
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Component 1 is an unseen, closed book examination.

Indicative Bibliography

- 1.CAMPBELL, B., 2013. Sports nutrition: enhancing athletic performance. 1st ed. CRC Press Inc.
- 2.POSTGATE, J.R. 2013. *Microbes and man*. 4th ed. Cambridge University Press.
- 3.MAUD, P.J. and FOSTER C., 2005. Physiological assessment of human fitness. 2nd ed. Human Kinetics.
- 4.MAUGHAN, R.J., 2013. The encyclopaedia of sports medicine: an IOC medical commission publication, volume XIX. Sports nutrition. Wiley-Blackwell.
- 5.MAUGHAN, R.J., 2008. The Olympic textbook of science in sport. Wiley-Blackwell
- 6.MAUGHAN, R.J. and GLEESON, M., 2010. The biochemical basis of sports performance. 2nd ed. Oxford University Press.
- 7.MACLAREN, D. and MORTON, J., 2011. Biochemistry for sports and exercise metabolism. Wiley.

physiological and metabolic demands in exercise and sport; hydration in exercise and sport; nutritional interventions to improve performance, such as carbohydrate loading, nutritional supplements and ergogenic aids; physiological, biochemical and nutritional means applicable to assessment of performance; any regulations applicable to relevant performance-enhancing strategies.

8.McARDLE, W.D., KATCH, F.I. and KATCH, V.L., 2012. Sports and Exercise Nutrition. 4th ed. Lippincott, Williams and Wilkins.