

# **Module Proforma**

**Approved, 2022.02** 

# **Summary Information**

Module Code	6503SPRT
Formal Module Title	Applied Strength and Conditioning
Owning School	Sport and Exercise Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

### **Module Contacts**

### **Module Leader**

Contact Name	Applies to all offerings	Offerings
Colin Lewis	Yes	N/A

### **Module Team Member**

Contact Name Applies to all offerings Offerings	
---	--

### **Partner Module Team**

ct Name Applies to all offerings Offerings	
--	--

# **Teaching Responsibility**

LJMU Schools involved in Delivery	
LJMU Partner Taught	

# **Partner Teaching Institution**

#### **Institution Name**

Nelson and Colne College Group

### **Learning Methods**

Learning Method Type	Hours
Lecture	15
Seminar	6
Tutorial	15

# Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-PAR	PAR	September	12 Weeks

### **Aims and Outcomes**

Students will develop the knowledge and practical skills required for the effective design and implementation of athlete condition programmes. This will build on the skills developed at level 5 in the Physiology of Strength and Conditioning Exercise module and will provide an opportunity for practical application of the training methods introduced.

### **Learning Outcomes**

### After completing the module the student should be able to:

Code	Description
MLO1	Critically analyse the response of the physiological systems during exercise.
MLO2	Critically evaluate advanced theories of training and conditioning and apply them to sport specific training solutions.
MLO3	Apply fundamental training theory to the evaluation of contemporary training methods.

### **Module Content**

### **Outline Syllabus**

Review of essential physiology: Cardiovascular system and exercise Neuromuscular system and exercise Metabolism and energy transfer during exerciseReview of important biomechanical principles: Levers Centre of gravity Base of support Ranges and planes of movementAdvanced training and conditioning theory: Training for strength and power Speed development and sprint training Endurance training Plyometric exercise PeriodisationPractical techniques: Olympic weightlifting Plyometric drills Speed and sprint training Agility and balanceProgramme design and facility management: Safety considerations Equipment Emergency procedures Testing and evaluation of the athlete: Experimental design Data collection Data analysis Compiling an evaluative report

#### **Module Overview**

Additional Information	
None.	

#### **Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Written Report	40	0	MLO1
Presentation	Oral Presentation	60	0	MLO2, MLO3