



SAMPLE COURSE OUTLINE

PHYSICAL EDUCATION STUDIES
ATAR YEAR 12

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Sample course outline

Physical Education Studies – ATAR Year 12

Unit 3 and Unit 4

Week	Syllabus content	Assessment
1	<p>Developing physical skills and tactics</p> <ul style="list-style-type: none"> • develop and refine sport specific skills and techniques to enhance performance • select and adapt skills and techniques in a variety of competitive situations • select and apply advanced tactical responses varying in complexity <ul style="list-style-type: none"> ▪ various environmental conditions ▪ strengths and weaknesses of opposition ▪ responding to opposition ▪ phases/stages of play • select and adapt tactics in a variety of competitive situations <p>Note: the above content areas are ongoing and will be addressed throughout the practical skill development teaching and learning activities.</p> <p>Functional anatomy</p> <ul style="list-style-type: none"> • structure of skeletal muscle <ul style="list-style-type: none"> ▪ epimysium ▪ fascicle ▪ perimysium ▪ muscle fibre ▪ myofibril • the role of myosin, actin and the sarcomere in sliding filament theory 	
2	<p>Functional anatomy</p> <ul style="list-style-type: none"> • structure of skeletal muscle <ul style="list-style-type: none"> ▪ epimysium ▪ fascicle ▪ perimysium ▪ muscle fibre ▪ myofibril • the role of myosin, actin and the sarcomere in sliding filament theory • relationship between the velocity and duration of muscle contraction to the amount of force exerted by the contraction <ul style="list-style-type: none"> ▪ force–velocity ▪ force–length • function of the nerves, spinal cord, motor unit (dendrite, axon, neuron) 	
3	<p>Functional anatomy</p> <ul style="list-style-type: none"> • relationship between muscle contraction and nerve function • characteristics of fast and slow twitch fibres and their relationship to physical performance types (sprint, endurance) <ul style="list-style-type: none"> ▪ Type I ▪ Type IIa ▪ Type IIb 	

Week	Syllabus content	Assessment
4	Biomechanics <ul style="list-style-type: none"> definition of momentum and how it applies to a selected sport <ul style="list-style-type: none"> conservation of momentum (Newton's Second Law of Motion) impulse–momentum relationship coefficient of restitution definition and application of the following concepts in a set sport <ul style="list-style-type: none"> moment of inertia angular momentum levers three classes of levers 	
5	Biomechanics <ul style="list-style-type: none"> relationship between torque and the use of levers in sport: torque = force x perpendicular distance of lever arm application of biomechanical principles to analyse physical skills <ul style="list-style-type: none"> balance coordination continuum force-motion force-time inertia optimal projection range of motion segmental interaction spin 	
6–7	Biomechanics <ul style="list-style-type: none"> definitions of fluid, laminar and turbulent flow definitions of pressure drag (form drag), surface drag (skin friction) and wave drag and how they apply to sporting contexts Bernoulli's principle - effect of shape and pressure differential 	
8–9	Biomechanics <ul style="list-style-type: none"> Bernoulli's principle - effect of shape and pressure differential changes in flight paths in spinning balls—the Magnus effect in relation to <ul style="list-style-type: none"> top spin back spin side spin no spin 	Task 1: topic test – functional anatomy and biomechanics (10.5%)
10–12	Exercise physiology <ul style="list-style-type: none"> relationship between energy demands and nutritional requirements during physical activity <ul style="list-style-type: none"> phases of activity – pre-competition, during exercise, recovery nutritional considerations – balanced diet, glycemic index, fats, proteins, carbohydrates, fluid replacement 	Task 2: soccer skill performance – developing skills and tactics (5.25%)
13–14	Exercise physiology <ul style="list-style-type: none"> physiological changes brought on by the use of performance enhancers <ul style="list-style-type: none"> protein powders anabolic steroids stimulants 	Task 3: soccer game performance – developing skills and tactics (5.25%)
15	Exercise physiology <ul style="list-style-type: none"> implications of preparing and performing in varying environmental conditions <ul style="list-style-type: none"> heat/humidity altitude cold 	Task 4: laboratory activity – exercise physiology and biomechanics (7%)

Week	Syllabus content	Assessment
16–17	<p>Exercise physiology</p> <ul style="list-style-type: none"> • training programs designed to improve performance in relation to: <ul style="list-style-type: none"> ▪ periodisation: micro cycle, macro cycle, pre-season, in-season, off-season ▪ specific energy system requirements ▪ peaking ▪ overtraining ▪ injured athletes ▪ tapering ▪ recovery ▪ maintenance 	<p>Task 5: topic test – exercise physiology (7%)</p>
18	<p>Revision and catch up</p> <p>Task 6: Semester 1 Written examination</p> <p>Task 7: Semester 1 Practical examination</p>	<p>Task 6: Semester 1 written examination (14 %)</p> <p>Task 7: Semester 1 practical examination – developing skills and tactics (4.5%)</p>
19	<p>Motor learning and coaching</p> <ul style="list-style-type: none"> • definition of transfer of learning • categories of transfer of learning <ul style="list-style-type: none"> ▪ skill to skill ▪ theory to practise ▪ training to competition 	
20	<p>Motor learning and coaching</p> <ul style="list-style-type: none"> • effects of transfer of learning <ul style="list-style-type: none"> ▪ positive ▪ negative ▪ zero effects • impact of positive, negative and zero effects of transfer of learning on skill execution and movement efficiency 	
21	<p>Motor learning and coaching</p> <ul style="list-style-type: none"> • analyse movement skills of self and others to identify errors, provide feedback and suggest corrections to improve performance 	
22	<p>Motor learning and coaching</p> <ul style="list-style-type: none"> • design coaching/training activities to improve performance in selected skills, including shaping, chaining, static-dynamic, simple-complex • use of different leadership styles – democratic, authoritarian and laissez-faire to suit audience needs 	
23	<p>Motor learning and coaching</p> <ul style="list-style-type: none"> • use checklists and video to analyse and reflect on the performance of self and others in physical activity 	
24	<p>Motor learning and coaching</p> <ul style="list-style-type: none"> • learning and skill development in relation to correction and improvement of self and others <ul style="list-style-type: none"> ▪ use of video analysis ▪ reflective journals ▪ peer/mentor/coach feedback ▪ questionnaires 	<p>Task 8: volleyball skill performance – developing skills and tactics (5.25%)</p>

Week	Syllabus content	Assessment
25	Sports psychology <ul style="list-style-type: none"> • mental skills strategies used pre-, during and post-performance to manage stress, motivation, concentration, self-confidence and arousal levels <ul style="list-style-type: none"> ▪ self-talk ▪ relaxation ▪ performance routines ▪ goal-setting ▪ imagery 	Task 9: volleyball game performance – developing skills and tactics (5.25%)
26–27	Sports psychology <ul style="list-style-type: none"> • Carron’s model of group cohesion <ul style="list-style-type: none"> ▪ the relationship between social loafing and group cohesion ▪ the influence of social loafing on individual and group performance ▪ strategies to improve group cohesion ▪ factors affecting group cohesion <ul style="list-style-type: none"> ○ environmental ○ leadership ○ personal ○ team 	Task 10: <i>Remember the Titans</i> – sport psychology (7%)
28	Revision	
29	Task 11: Semester 2 Written examination Task 12: Semester 2 Practical examination	Task 11: Semester 2 written examination (24.5%) Task 12: Semester 2 practical examination – developing skills and tactics (4.5%)