VCE HIGH PERFORMANCE TUTORING

Exam Preparation Program (EPP)

VCE Physics Units 3 & 4: Timetable

Dear Parents & Guardians,

The VCE Physics Unit 3 & 4 EPP combines three intents consistently across the 16 week program: strong content revision; explicit exam technique; and regular exam-style application under timed conditions. Each session is designed to revise key knowledge, and structure responses how physics questions are commonly assessed through explanation, calculation, graph analysis and practical reasoning.

The timetable herein contains a macro summary of each workshop and tutorial focus. The structure is intentionally flexible; to enable adjustment once the lead educator understands student strengths, weaknesses and school progress in more detail.

Across the program, the lead educator and tutor incorporate proven study techniques and strategies of high performing ATAR students, including active recall, spaced repetition, error analysis, timed practice, worked example comparison, and exam response scaffolding.

The overarching objective of the VCE EPP is to build the students' confidence, accuracy and exam readiness over time, so that by the final weeks they are not just revising content but performing strongly under VCE exam conditions.

Please direct enquiries to vceepp@shortcoursesau.edu.au or phone 1300 747 430 or enrol online following the QR code.

Yours sincerely,

Jonathon Ainscough
Chief Executive Officer

STUDY

FACE TO FACE OR ONLINE
Evening and weekend classes available Sunday to Friday.

COST

$35.00 PER HOUR
Flexible payment options, $105.00 per week for 16 weeks.

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SCA SHORT COURSES AUSTRALIA

RTOID 41261

Course Timetable: VCE Physics 3/4

Week 1

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 1 July 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Introduce the structure of VCE Physics 3/4, including SACs, the exam, and how marks are gained through calculations, explanation, graph interpretation and practical reasoning. • Establish how sessions will run each week: content revision, worked examples, timed application and personalised feedback. • Begin Unit 3 content with Newton's laws in one and two dimensions. • Revise free-body diagrams, net force, balanced and unbalanced forces, and vector basics. • Use short exam-style questions to model how force reasoning should be set out clearly. • Newton's three laws, net force, free-body diagrams, coplanar forces, forces in two dimensions, vector basics for force and motion. • Learning strategies: active recall, worked examples, force-diagram scaffolding, exam response scaffolding.
07.05 PM to 07.55 PM	Saturday 4 July 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 2

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 8 July 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Extend motion into projectile motion near Earth's surface. • Break motion into horizontal and vertical components and connect this to Newton's laws. • Discuss assumptions of ideal projectile motion and the qualitative effect of air resistance. • Use vectors, graphs and equations to model projectile paths. • Practice multi-step motion questions under timed conditions. • Projectile motion, horizontal and vertical components, two-dimensional motion analysis, effect of gravity, air resistance, motion graphs in projectile contexts. • Learning strategies: dual coding, vector decomposition drills, worked-example comparison, error analysis.
07.05 PM to 07.55 PM	Saturday 11 July 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 3

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 15 July 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Move into circular motion in horizontal and vertical planes. • Teach uniform circular motion and centripetal force. • Apply circular motion ideas to vehicles on circular roads, banked tracks, objects on strings, and vertical circular motion. • Connect force diagrams to centripetal force equations. • Practice exam-style force and motion questions involving circular paths. • Uniform circular motion, centripetal force, banked tracks, object on a string, vertical circular motion, highest and lowest point force analysis. • Learning strategies: worked examples, force-diagram analysis, graph-feature interpretation, retrieval practice.
07.05 PM to 07.55 PM	Saturday 18 July 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 4

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 22 July 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Complete Unit 3 motion by introducing satellite motion, momentum, impulse and collisions. • Model natural and artificial satellites as uniform circular motion. • Teach momentum conservation and impulse in isolated systems in one dimension. • Distinguish between elastic and inelastic collisions. • Use mixed questions to help students decide whether to apply force, momentum or energy reasoning. • Satellite motion, orbital motion, gravitational force and orbit, momentum conservation, impulse, collisions in one dimension, elastic and inelastic collisions. • Learning strategies: stepwise modelling, formula mapping, active recall, exam language practice.
07.05 PM to 07.55 PM	Saturday 25 July 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 5

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 29 July 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Shift to the relationships between force, work and energy. • Teach work done by a force and interpretation of area under a force-distance graph. • Analyse transformations between kinetic, gravitational potential, elastic potential and dissipated energy. • Introduce Hooke's Law and ideal springs. • Use exam-style questions to strengthen students' explanation of energy transfers and graph interpretation. • Work done, area under force-distance graph, kinetic energy, gravitational potential energy, elastic potential energy, Hooke's Law, energy transformations and conservation. • Learning strategies: concept linking, graph analysis, retrieval practice, exam response scaffolding.
07.05 PM to 07.55 PM	Saturday 1 August 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 6

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 5 August 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Begin Unit 3 Area of Study 2 by introducing fields as models for non-contact forces. • Compare gravitational, electric and magnetic fields in terms of shape, direction, attraction and repulsion. • Distinguish static vs changing fields and uniform vs non-uniform fields. • Explore field diagrams and field language carefully. • Use comparison-style questions so students practice writing sharper conceptual responses. • Field model, gravitational fields, electric fields, magnetic fields, field direction and shape, attractive and repulsive effects, dipoles and monopoles, static vs changing, uniform vs non-uniform fields. • Learning strategies: comparison tables, field-diagram interpretation, active recall, written explanation drills.
07.05 PM to 07.55 PM	Saturday 8 August 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 7

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 12 August 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Deepen field analysis through gravitational and electric fields around point masses and point charges. • Apply inverse square relationships to determine field strength and force. • Compare field strength, force and qualitative potential energy changes. • Introduce the effects of electric and magnetic fields on charged particles. • Practice mixed field questions that combine calculation and explanation. • Inverse square law, gravitational field and force, electric field and force, point mass and point charge fields, qualitative potential energy changes, electric force, uniform electric fields, magnetic force on moving charge. • Learning strategies: worked examples, comparison scaffolds, formula mapping, error analysis.
07.05 PM to 07.55 PM	Saturday 15 August 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 8

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 19 August 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Run a structured revision session covering all Unit 3 content from Weeks 1–7. • Use mixed exam-style questions involving motion, momentum, energy and introductory field concepts. • Identify common errors in signs, force direction, graph reading and formula selection. • Strengthen students' ability to decide quickly which model applies to a question. • Set personalised priorities for the second half of the program. • Newton's laws, projectile motion, circular motion, satellites, momentum, impulse, collisions, work, energy, springs, gravitational/electric/magnetic field basics, charged particles. • Learning strategies: interleaving, timed retrieval, error logs, metacognitive reflection, targeted feedback.
07.05 PM to 07.55 PM	Saturday 22 August 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 9

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 26 August 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Continue Unit 3 Area of Study 2 with charged particles, current-carrying conductors and motors. • Analyse acceleration of charges in electric fields and path changes in magnetic fields. • Teach force on a current-carrying conductor in a magnetic field. • Explain the operation of a simple DC motor, including the split ring commutator. • Use application-style questions to train students to explain devices clearly and link diagrams to physics. • Electric force and potential difference, uniform electric field, magnetic force on moving charge, charged particle path radius, force on current-carrying conductor, simple DC motor, split ring commutator, torque factors. • Learning strategies: diagram analysis, worked examples, vector reasoning, exam response scaffolding.
07.05 PM to 07.55 PM	Saturday 29 August 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 10

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 2 September 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Complete Unit 3 Area of Study 2 and begin Area of Study 3. • Apply field concepts to satellites and particle accelerators, including synchrotrons. • Introduce magnetic flux and induced emf. • Teach Faraday's law and factors affecting induced emf. • Use short mixed questions so students connect field theory to applications and electricity generation. • Orbital motion revisited, particle accelerators, synchrotrons, magnetic flux, induced emf, rate of change of magnetic flux, number of loops, direction of induced emf. • Learning strategies: device deconstruction, concept mapping, active recall, applied problem-solving.
07.05 PM to 07.55 PM	Saturday 5 September 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 11

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 9 September 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Apply field concepts to current-carrying conductors, motors, satellites and particle accelerators. • Teach the force on a current-carrying conductor in a magnetic field. • Explain the operation of a simple DC motor, including the role of the split ring commutator. • Investigate factors affecting motor torque qualitatively. • Model synchrotrons and particle accelerators using electric fields for acceleration and magnetic fields for direction change. • Force on a current-carrying conductor, perpendicular and parallel cases, simple DC motor, split ring commutator, effect of current, magnetic field and number of loops on torque, orbital motion revisited, particle accelerators and synchrotrons, interaction of electric and magnetic fields. • Learning strategies: device deconstruction, concept mapping, active recall, applied problem-solving.
07.05 PM to 07.55 PM	Saturday 12 September 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 12

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 16 September 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Begin Unit 3 Area of Study 3 on electricity generation. • Introduce magnetic flux and the generation of induced emf through changing magnetic flux. • Teach Faraday's law and the factors affecting induced emf. • Compare AC generation in alternators with DC generation in DC generators. • Practice interpreting generator setups and explaining how electricity is produced. • Magnetic flux, effect of angle between field and area, induced emf, rate of change of magnetic flux, number of loops, direction of induced emf, DC generators, alternators, split ring commutators and slip rings. • Learning strategies: stepwise modelling, diagram interpretation, worked examples, retrieval practice.
07.05 PM to 07.55 PM	Saturday 19 September 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 13

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 23 September 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Revisit weak areas through short reteaching, worked examples and immediate practice so students can turn feedback into improved performance. • Strengthen confidence by showing students how to correct mistakes systematically rather than repeating them. • Personalised session and focus on the specific topics or question styles that students are still finding difficult. • Continue electricity generation and move into transmission. • Compare AC voltage characteristics including frequency, period, amplitude, peak-to-peak voltage and current. • Explain rms voltage and compare it with equivalent DC voltage. • Analyse transformer action and ideal transformer relationships. • Evaluate transmission losses and why high voltage is used in power distribution. • Sinusoidal AC voltage, frequency, period, amplitude, peak-to-peak voltage and current, rms voltage, ideal transformer equation, transformer current-voltage relationships, transmission losses in power lines, electricity distribution systems. • Learning strategies: graph interpretation, formula mapping, applied reasoning, exam language drilling.
07.05 PM to 07.55 PM	Saturday 26 September 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 14

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 7 October 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Run a substantial timed simulated exam section to build exam stamina, timing awareness and response discipline under pressure. • Mark and review student responses in detail, focusing on common themes such as misreading the question, insufficient explanation, weak terminology or careless calculation errors. • Use feedback identify each student's final priority areas for improvement before the exam. • Use a mixed Unit 3/4 timed exam section containing calculations, application questions, data interpretation and organic analysis, followed by detailed review and correction. • Learning strategies: timed practice, exam wrappers, error logs, deliberate practice.
07.05 PM to 07.55 PM	Saturday 10 October 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

Week 15

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 14 October 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Revision session to answer questions related to any content students are still struggling with Consolidate program through a mixed-topic revision session using historical VCE-style questions. • Focus on helping students identify what a question is really asking, choose the right chemistry idea quickly and manage time under pressure. • Review high-yield concepts, common traps, command terms, time management and how to maximise marks even when unsure. • Run a high-yield final revision of the most examinable Units 3 & 4 topics, while answering student questions and correcting remaining weak areas through targeted practice.
07.05 PM to 07.55 PM	Saturday 17 October 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

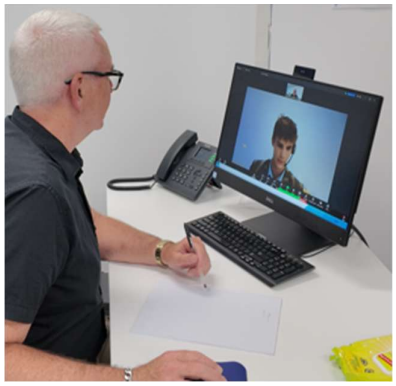
Week 16

Time	Date	Delivery Details	Session Summary
04.20 PM to 06.10 PM	Wednesday 21 October 2026	Room L1R1 Level 1, 350 Collins St, Melbourne or Google Meet	**Workshop** (1 Tutor:10 Student Ratio) • Consolidate the entire 16-week program through a final mixed-topic revision session centered on exam execution, confidence and strategy. • Review high-yield concepts, common traps, command terms, time management and how to maximise marks even when unsure. • End with a personalised exam-day plan for each student, including final revision priorities and clear strategies for approaching the paper calmly and efficiently. • Learning strategies: spaced repetition, active recall, final exam checklist, metacognitive planning. • Conclude with a final mixed review of must-know content, exam execution strategies, time management, error-checking and a personalised exam-day checklist for each student.
07.05 PM to 07.55 PM	Saturday 24 October 2026	Google Meet	**Tutorial** (1 Tutor:5 Student Ratio) • Review responses, ask questions and practice exam techniques

VCE Examination

Time	Date	Delivery Details	Session Summary
04.30 PM to 06.30 PM	Wednesday 28 October 2026	Date & Time not Confirmed	The 2026 VCE examination timetable will be published by VCAA in May. Written examinations will be completed between Monday 26 October 2026 and Wednesday 18 November 2026

LEARN MORE



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