

Physics Lectures for VCE Students For 2011



These lectures, specifically designed to cover the year 11 and 12 VCE Study Design, are given by outstanding research physicists. The lectures, of about 1 hour duration, will be held on **Thursdays at 6 pm in the Laby Theatre of the School of Physics**. Attendance will greatly assist the understanding of the topics in the VCE Physics Study Designs. Some light refreshments are available before the lectures.

Semester 1

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| Feb 17 | Let's start with a Big Bang ... Astrophysics
<i>VCE Unit 1 studies 3.1, 3.2</i> | Prof. Rachael Webster
<i>School of Physics, Melbourne University</i> |
| March 3 | The Greeks and the English.. Aristotle and Newton!
<i>VCE Unit 2 study 1, Unit 3 study 1</i> | Dr. Roger Rassool
<i>School of Physics, Melbourne University</i> |
| March 17 | All about electricity
<i>VCE Unit 1 study 2, Unit 4 study 1</i> | Assoc. Prof. Jeff. McCallum
<i>School of Physics, Melbourne University</i> |
| March 31 | Sustainable Energy ... Really?
<i>VCE Unit 1 study 3.5</i> | Assoc Prof. Michelle Livett
<i>School of Physics, Melbourne University</i> |
| May 5 | Electronics and Photonics....our modern world.
<i>VCE Unit 3 study 2</i> | Assoc Prof. Alex Mazzolini
<i>Centre for Atom Optics, Swinburne University</i> |
| May 19 | Relatively moving. Einstein's special relativity
<i>VCE Unit 3 study 3.1</i> | Prof. David Jamieson
<i>School of Physics, Melbourne University</i> |
| June 2 | Energy from the Nucleus
<i>VCE Unit 1 study 3.3</i> | Dr. Max Thompson
<i>School of Physics, Melbourne University</i> |

Semester 2

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| July 28 | Physics and Medical diagnosis
<i>VCE Unit 1 study 3.6</i> | Dr. Graeme O'Keefe
<i>Department of Nuclear Medicine Austin Hospital</i> |
| Aug 11 | The mystery of Electro-magnetism
<i>VCE Unit 4 Study 1</i> | Prof. Geoff Taylor
<i>School of Physics, University of Melbourne</i> |
| Aug 25 | The Synchrotron: How and Why
<i>VCE Unit 4 study 3.1</i> | Eugine Tan
<i>Australian Synchrotron</i> |
| Sept 8 | Waves or particles
<i>VCE Unit 2, study 2, Unit 4 study 2</i> | Dr. Andrew Greentree
<i>School of Physics, Melbourne University</i> |
| Sept 22 | Hi-Fi and Surround sound
<i>VCE Unit 4 study 3.3</i> | Andrew Bowen and Dr. Roger Rassool
<i>School of Physics, Melbourne University</i> |

Program details and registration can be found at: <http://www.facebook.com/VCEPhysics>