Overview

In this course, students will gain both a fundamental and practical understanding of the design and operation of solar cells. The course will enable the student to extend their knowledge of semiconductor device and provide a sound basis for a deep understanding of current solar cell technologies. Key practical processes such as solid state diffusion, gettering and device contacting are introduced. A range of laboratory-based and commercial solar cell technologies are reviewed together with recent technological advances in the field. The course makes use of simulation tools to reinforce an understanding of device physics and the different solar cell technologies. The simulation tools are also used to design and optimize advanced solar cells concepts. The course introduces a suite of relevant characterisation techniques that are used to understand the characteristics of solar cells including spectral response, temperature sensitivity, resistive losses, current generation and open-circuit voltages.
Faculty
Faculty of Engineering

School
School of Photovoltaic and Renewable Engineering

Study Level
Undergraduate

Offering Terms
Term 1

Campus
Kensington

Indicative contact hours
4

Timetable
Visit timetable website for details
Conditions for Enrolment

Prerequisite SOLA2060 or SOLA2540
Course Outline

To access course outline, please visit:

SOLA3507 Course Outline
Fees

Commonwealth Supported Students $1170
Domestic Students $5790
International Students $5790

DISCLAIMER
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty. Fees for courses delivered through UNSW Global are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179