

# SOLA3507

# SOLAR CELLS

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2.	Simulate solar cell devices using numerical models	1.2, 1.3, 2.1, 2.3
3.	Design solar cells by optimising parameters for maximum efficiency	2.1, 2.3
4.	Analyse measured characteristics of solar cells to determine sources of loss	2.1, 2.3

3	2 Mar	The ideal Solar Cell, Diffusion and Gettering	Exercise #1	Design
4	9 Mar	Contact Formation and Metallisation	Exercise #2	Design
5	16 Mar	Solar Cell characterisation	Exercise #2	Design
7	30 Mar	Solar Cell Optics	Exercise #3	Analysis
8	6 April	Loss analysis	Exercise #3	Analysis
9	13 April	Efficiency limits	Exercise #3	Analysis
10	20 April	High efficiency cell concepts	Revision Exercises	Revision Exercises

## 6. Assessment

### Assessment overview

Assessment	Group Project ? (# Students per group)	Length	Weight	Learning outcomes assessed	Assessment criteria	Due date and submission requirements	Deadline for absolute fail	Marks

permitted for all quizzes and at the completion of course in Week 10, student average marks on the quizzes will be scaled to a final mark of 5.

### *Presentation*

All non-electronic submissions should have a standard School cover sheet, which is available from this course's Moodle page.

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work and should be treated with due respect. Presenting results clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

Final examinations for each course are held during the University examination periods: February for Summer Term, May for T1, August for T2, and November/December for T3.

Please visit myUNSW for Provisional Examination timetable publish dates.

For further information on exams, please see the [Exams](#)





## 10. Administrative matters and links

All students are expected to read and be familiar with UNSW guidelines and policies.

