SOLA3507

SOLAR CELLS

Contents

1.	Staff contact details	3
	Contact details and consultation times for course convenor	3
	Contact details and consultation times for additional lecturers/demonstrators/lab staff	3
2.	Important links	3
3.		
	Credit points	3
	Contact hours	3
	Summary and Aims of the course	4
	Student learning outcomes	4
4.	Teaching strategies	5
5.	Course schedule	5
6.	Assessment	
	Assessment overview	6
	Assignments	6
	Presentation	7
	Submission	7
	Marking	7
	Examinations	

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	9 13 April Efficiency limits		Exercise #3	Analysis
10	20 April	High efficiency cell concepts	Revision Exercises	Revision Exercises

6. Assessment

Assessment overview

Assessme nt	Group Project ? (# Student s per group)	Lengt h	Weigh t	Learning outcome s assesse d	Assessme nt criteria	Due date and submission requirement s	Deadlin e for absolut e fail	Marks Mandr3 GT:CM(4CH408 028>=#41331241731 (
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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 incor 1rh9 0 Td.6 ()]TJ 0.002 Tw T Td.6 ()]TJ 0.S6 g /TT0 1 Tf 1 ()-h90 Tw 24.7Pi0ll submition

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 polices. In particular, students should be familiar with the following:

- <u>Attendance</u>
- UNSW Email Address
- Special Consideration
- Exams
- Approved Calculators
- <u>Academic Honesty and Plagiarism</u>
- Equitable Learning Services