



School of Civil and Environmental
Term 3, 2020
GMAT 9606
MICROWAVE
REMOTE SENSING

COURSE DETAILS

Units of Credit	6	
Contact hours	3 hours per week, equivalent	
Class	9:00-17:00 Monday 19 Oct – Friday 23 Oct	Online
Course Coordinator and Lecturer	Professor Linlin Ge email: l.ge@unsw.edu.au office: CE414 phone: 9385 4177	
Lecturer		

interaction with ground features with a direct emphasis of their application to real world situations in the field of mining, agriculture, geology, oceanography and hydrology.

2. This course will also cover advanced topics such as SAR interferometry and polarimetry.

The course will address the following programme attributes:

- < An in-depth engagement with the relevant disciplinary knowledge in its inter-disciplinary context
- < Capacity for analytical and critical thinking and for creative problem solving
- < Ability to engage independent and reflective learning
- < Information literacy
- < Skills for collaborative and multi-disciplinary work
- < A respect for ethical practice and social responsibility
- < Skills for effective communication

TEACHING STRATEGIES

A set of comprehensive lecture notes will be provided to students as the main teaching material. However, we will also incorporate the latest research outcomes. Whilst using this material we will aim to engage you in an understanding of the topics and require you to read the text based material in detail. Powerpoint files will be used during the lectures. Two lab based assignments for SAR and SAR interferometry will be included.

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EXPECTED LEARNING OUTCOMES

This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.

After successfully completing this course, you should be able to:

Students who perform poorly in the quizzes and lab assignments are recommended to discuss progress with the lecturer during the term. Note: The lecturer reserves the right to adjust the final scores by scaling if agreed by the Head of School.

Supplementary Examinations for Term 3 2020 will be held on Monday 11th January – Friday 15th January 2021 (inclusive) should you be required to sit one. You are required to be available during these dates. Please do not to make any personal or travel arrangements during this period.

PENALTIES

All assignments or practical reports are compulsory parts of the course and must be handed in by the due date. A mark of zero will be given for any submission which violates this rule. OR **The marks for late submissions will be reduced as follows:** -20% (of the maximum mark) for up to 24 hours after the scheduled submission time, then -10% (of the maximum mark) for each additional 24 hour period late. (For example, a student submitting a report/assignment 4 days late has his/her mark reduced by 4 if the maximum mark of the submission is 10.) Any late submission must be made before solutions are issued to the class.

If a student is unable to submit on time due to illness or other legitimate reason, then a brief written explanation must be given to the lecturer for consideration as soon as is feasible. In some cases the lecturer may grant an extension to the submission date provided he has been contacted before the due date.

Further assessment may be granted in this course at the lecturer's discretion. If further assessment is granted then performance in workshops may be considered as well as an oral exam including use of a computer.

If students attend less than 80% of their possible classes they may be refused final assessment.

RELEVANT RESOURCES

Reference books

"Introduction to microwave remote sensing", Iain H. Woodhouse, Taylor & Francis, 2006.

