

Knowing/showing where we or things are is fundamental to modern life, as evidenced by such developments as car navigation, GPS in mobile phones, Google Earth/Maps, Street views, etc.

To understand these concepts the course **GMAT9205** “**Fundamentals of Geo-Positioning**” is being offered in S1 2010...

Aims of the Course:

- (a) Basic concepts of positioning and geodesy
- (b) Coordinate reference systems and frames/datums
- (c) Map projections
- (d) Global Positioning System (GPS) and its applications in precise positioning

Learning Outcomes

By the end of this session the students should be able to

- 1) Describe the basic concepts of geo-positioning and geodesy
- 2) Explain coordinate reference systems/frames for mapping and navigation applications
- 3) Master map projection concepts & Universal Transverse Mercator projection
- 4) Explain the principles of GPS positioning methods
- 5) Appreciate the role of geo-positioning in spatial information data acquisition

Who Should Enrol

This course is suitable for postgraduate coursework students from computer science & engineering, electrical engineering & telecommunications, environmental science & engineering, planning & geography, civil engineering, mining, spatial information, & remote sensing.

What Previous Students Said About This Course and the Lecturer’s Teaching

This course is given by A/Prof Jinling Wang (<http://www.gmat.unsw.edu.au/wang/>). The course and the Lecturer’s teaching have been very well received over the years... example comments:

“The lecturer is enthusiastic, clearly enjoying the subject matters – this is very motivating for the class!” *“The course is setup the way, that student works (learns) on new material during the session, not before the exam.”* *“The course is well supported by on-line materials and the lecture notes.”* *“The assessments were good as they showed what we had learnt”.*

More information:

Contact Jinling Wang on email: Jinling.Wang@unsw.edu.au, or visit him at Room EE405, or call his office: 93854203 (office), 0400-463668 (mobile), with any questions you may have. Assistance with enrolment will be provided, as well as access to last year’s course website.

Download the course description from:

<http://www.gmat.unsw.edu.au/futurestudents/templates/9205outline.pdf>.

Consult UNSW handbook entry at:

<http://www.handbook.unsw.edu.au/postgraduate/courses/2010/GMAT9205.html>.



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