Course Information
Date: 12 - 16 January 2015
Location: The University of Queensland, St Lucia Campus
Coordinator: Dr Nick Shuley
Cost: Full price $2750
      Early bird price $2500
      Early bird registrations must be sent before Friday 12 December.
      Please contact us for group discount.

Contact Information
To enrol in this course or for general queries please send email to: cpd@itee.uq.edu.au
For technical queries please contact: Associate Professor Vaughan Clarkson v.clarkson@uq.edu.au
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Course Description
Based on RF & Communication Technologies, this course covers radar fundamentals including the radar range equation, RCS, Bayesian detection involving the probability of detection and probability of false alarms, pulsed Doppler radars and digital frequency techniques for Doppler filtering, CW radars, radar hardware, antennas, transmitters, receivers using matched filtering techniques. Airborne, low, medium and high PRF modes are all treated in the presence of clutter. Pulse compression techniques and radar waveforms are discussed from an ambiguity function point of view. Tracking radars and SAR are also introduced. Electronic Warfare (EW) involves defeating the radar and subsequently defeating the countermeasures. The three main components are: electronic support, electronic attack and electronic protection. Topics include: Electronic intelligence, signal interception and search procedures, models for various jamming techniques, decoys, gate stealing and deception techniques, low probability of intercept techniques involving phased arrays, RCS reduction and other design strategies.

Who Should Attend
This course is designed for those who work with or who wish to learn about the subject of radar and electronic warfare. Typically, this material would be of interest to RF, microwave, antenna and communication engineers. New electrical engineering graduates or prospective Ph.D. students interested in working in defence based industries or contemplating a career in the armed forces or air traffic control would also find this course particularly useful. At the conclusion of the course, the attendee should be able to understand the concepts and models used in radar systems and also be able to apply these to design and tradeoffs in radar and EW systems.

Registration Details
First name Dr Mr Mrs Ms ________________________________ Last name ________________________________
Organisation ________________________________ Address ________________________________
Phone ________________________________ Email ________________________________

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