



# Railway Telecommunications Course

**The highly successful Post Graduate Program in Railway Signalling has now been expanded to include a course in Railway Telecommunications.**

## Overview of the program

The program has been developed under the sponsorship of the Cooperative Research Centre for Railway Engineering and Technologies (Rail CRC). There has been strong industry participation in the course development, which provides a powerful link between learning outcomes and industry needs.

The program is offered through the University of Central Queensland's Faculty of Science, Engineering and Health as a Graduate Certificate/Graduate Diploma. This is a distance-learning program over six terms, which can be completed in a minimum of two years.

Railway Telecommunications is being offered in Term 3 of 2007 (commencing November 2007). It may be taken as a stand alone course or as an optional course in the Certificate/Diploma.

## Railway Telecommunications

Topics covered include:

- The role of telecommunications in the safe operation of railways
- Network architecture including bandwidth, bearer selection, diversity
- Transmission systems and equipment: copper, fibre and radio
- Train control requirements and systems
- Mobile radio systems
- Telemetry systems for signalling, power supervisory and network control
- Power supplies and earthing
- Cable construction, selection and installation
- Station operations including CCTV, PIDS, emergency phones and PA systems
- Business communications data and voice
- Human factors, hazards, EMI management

## Expression of Interest

Expressions of Interest are now being sought for participation in the Railway Telecommunications being offered in November 2007. Please register your interest with:

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