

University of Pretoria Yearbook 2016

Electronic defence - electronic support 781 (ELB 781)

Qualification Postgraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 32.00

Programmes [BEngHons Electronic Engineering](#)

Contact time 32 contact hours per semester

Language of tuition English

Academic organisation Electrical, Electronic and Com

Period of presentation Semester 1 or Semester 2

Module content

The role of electronic support (ES) receivers from tactical and strategic perspectives. ES system architectures including analogue and digital receivers. The following topics will be considered: signal detection, parameter estimation including direction finding (DF) angle of arrival (AoA) estimation and pulse repetition interval (PRI) tracking, emitter classification and low probability of detection (LPD) and low probability of intercept (LPI) techniques to counter ES receivers.

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