

SE4027 Professional Literature Study

Module status in MSc Professional Engineering: Option **Module credits:** 15

Aims

This module will provide an understanding of, and practical experience with, the processes involving in systematically gathering information, conducting a critical review, and expounding what has been learned in a manner that benefits the engineering profession, eg through enhanced organisation of knowledge and possibly new insights.

Content

The module will address a selected problem or area of activity within the participant's engineering domain. The area may be independent of other modules or selected with a view to further development in the major project (SE4041).

Indicative content: Systematic information gathering. Organisation and critical analysis. Exposition to a standard suitable for professional publication. Where relevant, application of engineering analysis techniques, integration of insights gained.

Teaching

The module will normally be taught through a work-based project supplemented by appropriate individual learning (eg through directed reading) and supported by individual supervision and mentoring. Where appropriate and specified by the learning contract, formally taught elements from a level 7 module forming part of another EAS MSc programme may be accessed by distance learning.

Assessment

Written report(s) arising from the work-based project will be assessed. The learning contract will specify whether a preliminary report and a final report, or a final report alone, are to be assessed. The final report should be in a form and of a standard suitable for submission to a professional publication in the selected engineering domain. The assessed reports should total around 5000 words, or 12-18 pages including appropriate diagrams, tables, etc.

Module outcomes

What the participant should gain from successful completion of the module

Teaching/Learning Methods

Assessment Methods

Knowledge and Understanding

Enhanced understanding of current and emerging technologies and engineering practice in the area addressed by a work-based project

Work-based projects, supplemented by individual learning and distance learning as appropriate

Written reports

Intellectual Skills

Apply engineering analysis techniques to gain new insight

Professional/Subject-Specific Skills

Transferable Skills

Effective communication skills
Initiative and self-direction in tackling problems
Independent learning ability

Learning resources

Developed by the participant as part of the work for the module

Other modules required in order to take this module

SE4001 Professional Development Audit