

SE4026 Product Delivery

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

Aims

To provide an enhanced understanding of procedures and processes contributing to optimised delivery of both ongoing and innovative product lines, together with related design and implementation capability.

Content

This is a generic module specification – whilst adhering to the broad principles set out here, the content of any particular delivery of the module will necessarily depend on the selected engineering domain and the learning contract agreed between the programme participant, Aston University and the participant’s professional engineering institution.

Illustrative content: Design innovation. Product introduction. CAD. Material selection. Lean and agile manufacture. The supply chain.

Teaching

The module will normally be taught through work-based projects 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 one or more level 4 modules forming part of other EAS MSc programmes may be accessed by distance learning.

Assessment

Written reports and (where appropriate) other formal work products arising from the work-based project(s) will be assessed.

Where content has been accessed by distance learning, and if specified by the learning contract, a proportion of the module mark may be derived from formal assessments associated with the modules accessed.

If assessment is based entirely on work-based activities, the participant’s reports should total around 4000 words, or 10-15 pages including appropriate diagrams, tables, etc. Where formal assessment of distance learning provides part of the overall module assessment, reports on work-based activities should be limited to around 2500 words (about 6-9 pages) in total.

Module outcomes

What the participant should gain from successful completion of the module

Teaching/Learning Methods

Assessment Methods

Knowledge and Understanding

Enhanced understanding of design and manufacturing processes, both current and emerging

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

Written reports and other appropriate formal work products, possibly supplemented by exam assessment of distance learning material

Intellectual Skills

Innovatively exploit an extensive toolkit of design processes and technologies

Professional/Subject-Specific Skills

Ability to apply engineering techniques taking account of industrial and commercial constraints and the business environment and associated risk
Provide technical leadership

Transferable Skills

Decision making capability in complex situations

Learning resources

As appropriate to the selected engineering domain and any modules accessed by distance learning

Other modules required in order to take this module

SE4001 Professional Development Audit