

WM9E8-15 Strategy and Finance for Engineering Organisations

26/27

Department

WMG

Level

Taught Postgraduate Level

Module leader

Lee Griffin

Credit value

15

Module duration

4 weeks

Assessment

Multiple

Study location

University of Warwick main campus, Coventry

Description

Introductory description

The existence of a properly formulated and explicit strategy is essential to ensure the development and success of any business. In engineering organisations, both the business strategy and operations strategy are key elements. Engineering organisations are in a unique and dynamic situation offering various products and services with different market requirements and order winning criteria. The underpinning philosophy and methodology of this module is to present a variety of concepts, models and frameworks, methods and examples of how a strategy for managing an engineering organisation can be formulated and implemented in the engineering industry.

Module aims

To provide the student with an advanced knowledge and comprehension of strategy and finance for managing an engineering organisation and the underpinning key decision areas; part of this aim is to develop the student's capability to apply the strategy formulation process in an engineering organisational context, via various simulations and an In-Module Assessment during the module, and a Post-Module Assessment at the end.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

- Evolution of engineering organisations and the journey to World Class.
- Development of a strategy for managing an engineering organisation and the integration of key strategic decision areas.
- Strategy formulation processes for managing an engineering business
- Tools & techniques for integrating key strategic decision areas.
- Finance strategy as a strategic decision area.
- International engineering/manufacturing/operations.
- Continuous improvement of operational processes for engineering organisations.
- Performance measurement in an engineering organisation environment.
- Implementation, improvement, risk and recovery issues.
- Practical examples of strategy formulation.

Learning outcomes

By the end of the module, students should be able to:

- Critically evaluate key areas of strategic decisions, capabilities and competitive positioning of an organisation in order to improve, or sustain, long-term competitive advantage. (AHEP M2, M4, M5)
- Formulate and interpret budgets, projections and forecasts to derive an informed investment appraisal (AHEP M1, M2, M4)
- Critically apply and appraise the tools and techniques used to manage and measure the implementation and development of strategy and performance for an engineering organisation. (AHEP M2, M4)
- Assess real world strategy and performance for an engineering organisation issues through applying learned models, frameworks, methodologies and techniques. (AHEP M2, M4, M5)
- Reflect on how the module has developed your understanding of strategy creation, deployment and ongoing performance of an engineering business(AHEP M5).

Indicative reading list

[Reading lists can be found in Talis](#)

[Specific reading list for the module](#)

Subject specific skills

Knowledge of strategy for managing an engineering organisation and key strategic decision areas (Finance is one key area of strategic decision making); formulation and practical applications of said strategy and capabilities (strategic and operational); tools and techniques for the formulation, implementation, monitoring and controlling of said strategy and key strategic decision areas.

Transferable skills

Critical thinking, reflection, problem-solving, self-awareness, verbal and written communication, information/terminology literacy, presentation and organisational awareness.

Study

Study time

Type	Required
Lectures	15 sessions of 1 hour (10%)
Seminars	15 sessions of 1 hour (10%)
Online learning (scheduled sessions)	(0%)
Online learning (independent)	30 sessions of 1 hour (20%)
Private study	30 hours (20%)
Assessment	60 hours (40%)
Total	150 hours

Private study description

Work on exercises provided by tutor to deepen learning in preparation for the assessment

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Assessment group A3

	Weighting	Study time	Eligible for self-certification
Strategic discussion and evaluation Individual written assessment covering the areas of strategic decision making within engineering organisations	60%	36 hours	Yes (extension)
Investment Appraisal and Recommendations	40%	24 hours	Yes (extension)

Weighting Study time Eligible for self-certification

Analysis of financial data leading to informed recommendations for investment and strategic considerations.

Assessment group R2

	Weighting	Study time	Eligible for self-certification
Strategic discussion and evaluation	60%	36 hours	No
Investment Appraisal and Recommendations	40%	24 hours	No

Feedback on assessment

A series of formatively assessed activities designed around a case study organisation will be provided to the students during the first 3 weeks of the 4-week teaching block with verbal and written feedback provided (no marks awarded nor given at this point) to aid the writing of the assessments. These will be mapped against the learning outcomes for the module.

Availability

There is currently no information about the courses for which this module is core or optional.