

WM951-15 Technology Management

23/24

Department

WMG

Level

Taught Postgraduate Level

Module leader

Devon Allcoat

Credit value

15

Module duration

2 weeks

Assessment

Multiple

Study location

University of Warwick main campus, Coventry

Description

Introductory description

The module provides useful insights to help current and future managers and technologists consider the role of technology plays in supporting current and future business, and how to manage the technology from cradle to grave.

[Module web page](#)

Module aims

The module aims to provide an appreciation of the role that technology plays in business and industry, from both a local and international perspective.

It integrates knowledge and leading edge thinking on the topic and offers insights into how technology is managed in industry, with relevant case studies and simulations to embed the learning.

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.

- Technology definitions & classifications
- Technology strategy
- Technology management frameworks
- Technology tools & techniques, including technology road mapping
- Readiness assessments & competency frameworks
- Case studies
- Simulations
- Managed industrial visit

Learning outcomes

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

- Appraise how technology can best be integrated in pursuit of commercial success and how to influence decision makers when making a case for technology investment.
- Critically examine the technological competence of a business.
- Assess a business' technology needs and identify appropriate technologies.
- Create an approach for accessing and implementing required technologies for an organisation.
- Evaluate and apply tools & techniques necessary to identify and deliver technological change at an acceptable risk.

Indicative reading list

Schilling, M - Strategic Management of Technological Innovation, McGraw Hill, 6th edition, 2020
 Cetindamar, D., Phaal, R., Probert, D. - Technology Management, Activities & Tools, European Institute for Technology and Innovation Management, 2010

[View reading list on Talis Aspire](#)

Subject specific skills

technology decision making

technology strategy development & evaluation (incl roadmapping)

technology justification

technology management

Transferable skills

communication skills

team working

adaptability

decision making

critical thinking

problem solving

leadership

Study

Study time

Type	Required
Lectures	6 sessions of 1 hour 30 minutes (6%)
Seminars	12 sessions of 1 hour 30 minutes (12%)
Online learning (scheduled sessions)	2 sessions of 1 hour 30 minutes (2%)
Online learning (independent)	60 sessions of 1 hour (40%)
Assessment	60 hours (40%)
Total	150 hours

Private study description

No private study requirements defined for this module.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A5

	Weighting	Study time	Eligible for self-certification
Alstom	10%	6 hours	No
Alstom Case Study: Case study with introduction, group analysis and discussion, finished with group presentation.			
Post-Module Assessment	50%	36 hours	Yes (extension)
PMA written assignment: choice of questions, choose one.			
Rocado	20%	9 hours	No
Rocado Case Study: Case study with introduction, group analysis and discussion, with a total of			

	Weighting	Study time	Eligible for self-certification
three group presentations, interspersed across parts of the case study.			
Uniformly Secure	20%	9 hours	No
Uniformly Secure: Self-guided work using online resources. Case study requiring identification and mitigation of cyber-threats in the context of products and technologies. Requires student application of technology management tools and techniques to the case study.			

Assessment group R3

	Weighting	Study time	Eligible for self-certification
PMA written assignment one question, no choice	100%		Yes (extension)

Feedback on assessment

Written feedback will be provided in a report for all Post Module assignments. Feedback for the case studies will be given verbally during the module with written feedback for all in-module components provided in a summary table within a week of the face to face part of the module.

Availability

Anti-requisite modules

If you take this module, you cannot also take:

- WM047-10 Service Support Technologies
- WM9J3-15 Service Support Technologies

Courses

This module is Core optional for:

- Year 1 of TWMS-H1S4 Postgraduate Taught e-Business Management (Full-time)

This module is Optional for:

- EWMS-H1X9 Postgraduate Taught Engineering Business Management (Degree Apprenticeship)
 - Year 2 of H1X9 Engineering Business Management (DA)
 - Year 2 of H1T3 WMG Engineering Business Management (Part-time)
 - Year 2 of H1T3 WMG Engineering Business Management (Part-time)
- Year 1 of TWMS-H1S9 Postgraduate Taught Management for Business Excellence (Full-

time)

- EWMS-H1B3 Postgraduate Taught Managing in Technology Based Industries (Degree Apprenticeship)
 - Year 2 of H1B4 Managing in Technology Based Industries
 - Year 2 of H1B4 Managing in Technology Based Industries
 - Year 2 of H1B3 Managing in Technology Based Industries (DA)
- TWMS-H1SB Postgraduate Taught Programme and Project Management (Full-time)
 - Year 1 of H1SB Programme and Project Management (Full-time)
 - Year 1 of H1SB Programme and Project Management (Full-time)
- Year 2 of EWMS-H7BJ Postgraduate Taught Supply Chain and Logistics Management (Degree Apprenticeship)