WM951-15 Technology Management

22/23

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, design an approach for accessing and implementing required technologies
- 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
creativity & innovation
time management

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)	7 sessions of 1 hour 30 minutes (7%)
Online learning (independent)	9 sessions of 30 minutes (3%)
Assessment	108 hours (72%)
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 A4

	Weighting	Study time
In-Module Assessment	50%	48 hours

10% weight: Self-Guided Learning Quiz - 20 multiple choice questions to answer questions from the self-guided learning materials. 2 attempts are allowed.

In-module case studies:
Alstom Case Study: Case study with introduction, group analysis and discussion, finished with group presentation. Marked Collectively with equal contribution (10%)

Rocado Case Study: Case study with introduction, group analysis and discussion, with a total of three group presentations, interspersed across parts of the case study. Marked Collectively with equal contribution (15%)

Uniformly Secure Case Study: Self-guided work using online resources, with some input from tutors throughout. Culminates in a short team-based presentation, marked collectively with equal

	Weighting	Study time
contribution (15%)		
Post-Module Assessment	50%	60 hours
PMA written assignment: choice of questions, choose one.		

Assessment group R2

	Weighting	Study time
PMA written assignment	100%	
one question, no choice		

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)