ES9I6-10 Information Systems Management

20/21

Department

WMG

Level

Taught Postgraduate Level

Module leader

Mark Bonnett

Credit value

10

Module duration

1 week

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

The purpose of the module is to introduce students to the discipline of information systems management and current best practices in the development and management of critical information systems.

In particular, the module provides a detailed and comprehensive evaluation of cloud technologies, and the challenges associated with migrating existing technology to the cloud, and the opportunities these architectures can offer. These issues will be explored from a technical, an organisational and, most importantly, a strategic perspective.

Module web page

Module aims

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opportunities these architectures can offer. These issues will be explored from a technical, an organisational and, most importantly, a strategic perspective.

The module culminates in a capstone project, were students working in teams will simulate a realistic information systems management workflow. In the project, participants will seek to capture a set of realistic business requirements, develop an overall architecture, and then detail two specific project initiatives. The first will be a scenario where an appropriate COTS (commercial off the shelf) or open source solution would be selected (which meets the business' requirements) from a set of appropriate alternatives. The second is to provide a high-level design of a new piece of software, that again can meet the business requirements but for a different part of the initiative.

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.

- 1. Key Concepts of Information Systems Management
 - a. What is Information Systems Management?
 - b. Hardware, middleware and software
 - c. Networking and security
- 2. Information System Management Practice
 - a. IT organisational roles
 - b. Data management and information architecture
 - c. Data and information governance
 - d. Business continuity and disaster recovery
- 3. Cloud Computing
 - a. Fundamentals of cloud architecture
 - b. Cloud migration strategies
 - c. Continuous integration and continuous delivery
 - d. Cloud native computing
- 4. Application Development
 - a. Agile project management and DevOps
 - b. Application design
 - c. High level documents
 - d. Application testing and deployment strategies
- 5. Solution Selection
 - a. Requirements elicitation and user stories
 - b. Evaluation and prioritisation of available solutions
 - c. Change management
- 6. Capstone Project
 - a. A practical simulation of the above topics.

Learning outcomes

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

- Demonstrate a comprehensive understanding of the practice of information management in modern business
- Critically analyse the systematic and operational risk associated with a business' information architecture, and develop appropriate mitigation and management strategies
- Critically evaluate a range of real-world IT solutions, and determine their applicability and suitability to a range of different use cases
- Interpret complex business requirements and develop appropriate, higher-level solution and architecture designs

Indicative reading list

Chaffey D (2014). Digital Business and E-Commerce Management. Pearson: Harlow, UK. ISBN-13: 978-0273786542.

Croxen-John D and van Tonder J (2017). E-Commerce Website Optimization: Why 95% of your website visitors don't buy, and what you can do about it. Kogan Page: London, UK; New York, NY; and New Delhi, IN. ISBN-13: 978-0749475383.

Goward C (2013). You Should Test That: Conversion optimization for more leads, sales and profit, or the art and science of optimized marketing. Sybex: Indianapolis, IN. ISBN-13: 978-1118301302. Hunt B (2011) Convert! Designing web sites to increase traffic and conversion. Wiley: Indianapolis, IN. ISBN-13: 978-0470616338.

Krug S (2014). Don't Make Me Think, Revisited: A common sense approach to web usability. New Riders: Harlow, UK. ISBN-13: 978-0321965516.

Larsson T (2016). Ecommerce Evolved: The essential playbook to build, grow & scale a successful ecommerce business. CreateSpace Independent Publishing Platform. ISBN-13: 978-1534619340

Laudon KC and Traver CG (2016). E-commerce 2016: Business, technology, society. Pearson: Harlow, UK. ISBN-13: 978-1292109961.

Meier A and Stormer H (2009). eBusiness & eCommerce: Managing the digital value chain. Springer: Berlin, DE and London, UK. ISBN-13 978-3540893288.

Nahai N (2012). Webs of Influence: The psychology of online persuasion. Pearson: Harlow, UK. ISBN-13: 978-1292134604.

Turban E, Outland J, King D, Lee J, Liang T and Turban D (2018). Electronic Commerce 2018: A managerial and social networks perspective. Springer: Cham, CH. ISBN-13: 978-3319587141.

View reading list on Talis Aspire

Subject specific skills

IT architecture, agile, DevOps, cloud computing, business intelligence, networks, virtualisation, outsourcing

Transferable skills

Presentation skills, research, teamwork, IT architecture, critical thinking

Study

Study time

Type Required

Lectures 19 sessions of 1 hour (19%) Seminars 12 sessions of 1 hour (12%)

Private study 69 hours (69%)

Total 100 hours

Private study description

6 hours of pre-module work (based on pre-reading activity)

60 hours of self-directed study (post-module assignment)

3 x hours of private study.

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 A2

Weighting Study time Eligible for self-certification

Assessment component

Assessed work as specified by department 100%

Yes (extension)

In-module Assessment

4000-Word Post Module (60 hours)

Reassessment component

Assessed work as specified by department

No

Written Assignment

Feedback on assessment

In module work will have feedback provided verbally after assessment.

PMA – individual notes attributed to each script returned to each student with bespoke feedback.

Availability

Courses

This module is Core optional for:

• Year 1 of TESS-H7PL Postgraduate Taught e-Business Management

This module is Optional for:

- Year 1 of TESS-H1ZW Postgraduate Taught Programme and Project Management
- Year 1 of TESS-H7PT Postgraduate Taught Programme and Project Management (Hong Kong)

This module is Core option list A for:

Year 1 of TESA-H7PK Postgraduate Taught e-Business Management

This module is Option list A for:

 Year 1 of TESS-H6C4 Postgraduate Taught International Technology Management (Hong Kong)

This module is Option list B for:

- Year 1 of TESS-H6C3 Postgraduate Taught Cyber Security and Management
- Year 1 of TESS-H1X6 Postgraduate Taught Programme and Project Management