UNIVERSITY of BRADFORD

Module Details

Module Title	Blockchain in Business Digitalisation
Module Code	OIM7513-A
Academic Year	2024/5
Credits	10
School	School of Management
FHEQ Level	FHEQ Level 7

Contact Hours

Type	Hours
Lectures	12
Seminars	12
Directed Study	76

Availability

Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims

We analyse the implications of blockchain and smart technologies in reshaping the business environment. The module is designed to give participants an in-depth understanding of blockchain usage to improve coordination, efficiency, and effectiveness in supply chain management. We will consider how current technological developments are affecting and will affect business opportunities in manufacturing, transportation, and services. Specifically, we will describe how the blockchain works, what smart contracts are, and how it is applied in service and manufacturing to create now business module opportunities. Provide students with hands-on experience developing and deploying smart contacts and blockchain networks.

Outline Syllabus

Introduction to Blockchain Technology.
Smart Contracts.
Deployment of smart contracts and blockchain networks.
Blockchain in Production and Operations.
Blockchain in Integrated Transportation.
Decentralised Autonomous Organisations.

Learning Outcomes	
Outcome Number	Description
O1	Draw on your understanding of blockchain concepts to identify issues in supply chain coordination and propose solutions.
O2	Analyse the implication of smart technology on the management of people and natural resources.
O3	Work effectively in a team and communicate information with people across cultural boundaries.

Learning, Teaching and Assessment Strategy
Learning will be based on a combination of lectures and seminars. Lectures will focus on the theoretical principles of the blockchain and its applications to businesses in practice. Seminars will be based on case study discussions and hands-on development and deployment of smart contracts. Students will be assessed based on a multiple-choice test and a group project. The group project requires students to have hands-on experience designing and deploying smart contracts. The group project is an excellent opportunity to develop their technical and teamwork skills.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Examination - MCQ	30 MCQ questions	40%
Summative	Dissertation or Project Report	20 slides plus appendices	60%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:
This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.