

Module Details	
Module Title	Safe AI: Ethics, Law and Governance
Module Code	OIM7506-B
Academic Year	2020/1
Credits	20
School	School of Management
Subject Area	Operations and Information Management
FHEQ Level	FHEQ Level 7
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Independent Study	164
Seminars	12
Online Seminar (Synchronous)	12
Tutorials	6
Online Tutorials (Synchronous)	6

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims	
<p>The module aims to explore and judge the nature and scope of AI interventions, the legal, social, moral and ethical implications of these technologies and their impact on societies and government institutions. The module will provide a grounding in the fundamentals of cybersecurity and artificial intelligence, as well as in the strategic implementation of AI-enabled security methods.</p>	

Outline Syllabus

Introduction to the ethics of AI: What is AI and what are the ethical AI-related challenges currently and in the next decade?

Fundamental concepts in AI (cyber)security: identity, confidentiality, privacy, anonymity, integrity, etc.

Ethical frameworks: virtue ethics, consequentialism, utilitarianism, deontology

Ethics and the alignment problem

Algorithmic bias; the accuracy-fairness trade-off

Accountability, moral responsibility, and law

Legal frameworks: EU General Data Protection Regulation (GDPR); The European Commission's policies and strategies (the proposal for one of the first legal frameworks in the world dealing with the regulation of AI; High-Level Expert Group on AI), 2019 OECD Principles on Artificial Intelligence; The US policy and strategic plan on AI

Ownership and governance

The future of AI

Learning Outcomes

Outcome Number	Description
01	Demonstrate a critical awareness of fundamental concepts in AI security.
02	Demonstrate a comprehensive understanding of selected ethical frameworks used in current approaches to ethics in AI.
03	Demonstrate a critical understanding of selected ethical and legal principles and standards in AI.
04	Demonstrate originality in the application of knowledge, together with a practical understanding of important issues and topics in the evolving AI law discipline.
05	Demonstrate the qualities and transferable skills of initiative and personal responsibility.

Learning, Teaching and Assessment Strategy

Learning will be directed, supported, and reinforced through a combination of online and face-to-face seminars and tutorials, and discussion groups, as well as through directed and self-directed study. Using team-based learning, students will be provided with learning materials in advance of the classroom sessions. The classes will engage students in active learning sessions which draw on the knowledge acquired throughout the sessions as well as based on individual study to further deepen understanding of the topics. These activities will be based on case studies, or group problem solving exercises.

Formative feedback will be provided through a team-based activity (group assessment, based on a case study). This exercise aims to expose students to real-world situations illustrating legal, social, moral and ethical dilemmas and allow them to explore how what they have learned applies to such situations. This is a good opportunity to allow the application of theoretical concepts to be demonstrated, bridging the gap between theory and practice.

Students will be assessed through an individual reflective report (which contributes with 100% towards the module grade), which builds upon the case study on which students would have received formative feedback. This report will be used as a means to evidence deeper understanding of the specific area of study and the implications of regulated and unregulated use of AI in the society.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Coursework	Reflective report on a selected topic on the implications of regulated and unregulated use of AI in the society	N/A	100%

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.

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