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COMP 7020 ARTIFICIAL INTELLIGENCE ETHICS AND ORGANISATIONS

Credit Points 10

Legacy Code 301314

Coordinator Jiansheng Huang (https://directory.westernsydney.edu.au/ search/name/Jiansheng Huang/)

Description Artificial Intelligence Ethics and Organisations provides students with a comprehensive grounding in the ethical issues of general ICT and AI technologies. Students will learn the general ICT professionalism, the relevant laws, regulations and policies with respect to ICT and AI ethics, and the existing framework and research trend in the field. With a series of case studies, students will learn how to apply general principles and guidelines in practice. They will also learn to identify potential risks and impacts, to ensure AI ethics are followed in different circumstances regarding data governance, automatic decisions, predictive analytics, autonomous system design and deployment, and structure changes of labour markets.

School Computer, Data & Math Sciences

Discipline Artificial Intelligence

Student Contribution Band HECS Band 2 10cp

Level Postgraduate Coursework Level 7 subject

Assumed Knowledge

General knowledge of artificial intelligence technologies and applications, including machine learning, robotics and autonomous systems, natural language processing and expert systems.

Learning Outcomes

On successful completion of this subject, students should be able to:

- Apply knowledge of existing laws, policies, and international, national, organisational framework of ICT and AI ethics and research trends in the field.
- 2. Understand ICT Professionalism (the code of professional conduct)
- 3. Explain the similarities and Difference between the general ICT ethics and AI ethics
- 4. Identify potential risks of ICT and AI systems in practice.
- Implement methods to confirm appropriate consent and avoid data breaches in information sharing (when data is collected, sold, shared, collated and used).
- Determine designs for transparency, fairness and accountability of automatic decisions.
- 7. Identify bias and discrimination in AI predictive analytics.
- 8. Explain impacts of AI to labour markets as well as appropriate and flexible regulatory policies to expand social protection.
- 9. Justify through moral reasoning the use of autonomous systems.

Subject Content

- Emerging ICT and AI technologies and applications
- · ICT Professionalism, the code of professional conduct
- General principles and guidelines of general ICT ethics and AI ethics

- Existing laws, regulations, policies and ethical framework of ICT and AI systems
- Understanding the general ICT ethics and AI ethics: Similarities and Differences
- · Privacy and data governance
- · Human oversight in automated decisions
- · Bias and discriminations in AI predictive analytics
- · Impacts of AI to the structures of labour markets
- Ethical rules of autonomous systems
- AI military ethics
- · Applying principles in practices for ethical AI
- · Research trend in AI ethics

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Туре	Length	Percent	Threshold	Individual/ Group Task
Literature Review	1,000 words	20	Ν	Individual
Quiz	2 Hours	30	Ν	Individual
Report	2000 words research report	50	Ν	Individual

Prescribed Texts

 Sarangi, S., & Sharma, P. (2018). Artificial Intelligence: Evolution, Ethics and Public Policy. London: Routledge India.

Teaching Periods

Spring (2022) Parramatta - Victoria Rd

Day

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View timetable (https://classregistration.westernsydney.edu.au/even/ timetable/?subject_code=COMP7020_22-SPR_PS_D#subjects)

Spring (2023) Melbourne

Meiboui

On-site

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Parramatta - Victoria Rd On-site

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