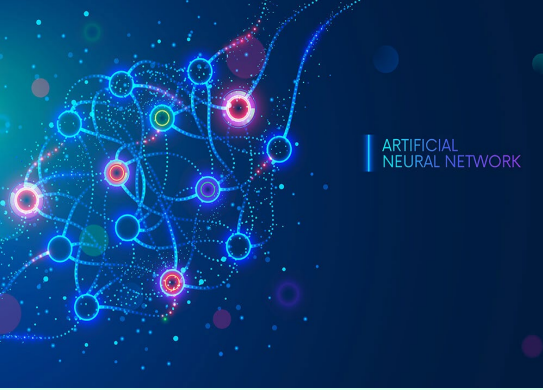




Artificial Intelligence

ACCA7026

Dr. Seena Joseph

ACCA7026

- Lecturer: Dr. Seena Joseph
- Email : Seena.joseph@uwtsd.ac.uk
- Current Timetable

Thursday : 11H00 to 13H00 at IQ110

Thursday : 16H00 to 16H00 at IQ112

Module content

- Strong and Weak AI [Lecture 1 and 2]
 - Definition of AI
 - Strong and Weak AI
 - Historical contexts and Developments
- Ethics and Risks of developing AI [Lecture 3]
 - Ethical consideration in AI development
 - Risks and challenges of AI development
- Agent based learning [Lecture 4 and 5]
 - AI agent, learning and Environment
 - Case study
- Search Algorithms [Lecture 6, and 7]
 - Informed and uninformed search
 - Global and Local search
 - Optimisation and constraints
- Introduction to Machine Learning [Lecture 8, 9, 10 and 11]
 - Supervised and unsupervised methods
 - ML algorithms
 - ANN

Module Content

- Natural Language processing [Lecture 12, 13 and 14]
 - Introduction to NLP
 - Text representation
 - NLP models
- Introduction to Deep Learning [Lecture 15, 16 and 17]
 - Deep learning
 - CNN
- Reinforcement learning [Lecture 18 and 19]
- Revision [Lecture 20]

Lecture Schedule

Date	Content
Week of Sep 29 th	• Introduction to AI [Lecture 1] • Strong and Weak AI [Lecture 2]
Week of Oct 6 th	• Ethics and Risks of developing AI [Lecture 3] • Agent based learning [Lecture 4]
Week of Oct 13 th	• Agent based learning [Lecture 5] • Search Algorithms [Lecture 6]
Week of Oct 20 th	• Search algorithms cont. [Lecture 7] • Introduction to Machine learning [Lecture 8]
Week of Oct 27 th	• Machine Learning Cont. [Lecture 9, 10]
Week of Nov 3 rd	• Reading Week
Week of Nov 10 th	• Machine Learning Cont. [Lecture 11] • Natural Language Processing [Lecture 12]
Week of Nov 17 th	• Natural Language Processing cont. [Lecture 13, 14]
Week of Nov 24 th	• Introduction to Deep learning [Lecture 15 and 16]
Week of Dec 1 st	• CNN [Lecture 17] • Reinforcement Learning [Lecture 18]
Week of Dec 8 th	• Reinforcement Learning cont. [Lecture 19 and 20]
Week of Jan 5 th	• Revision [Lecture 21 and 22]

Assessment Schedule

Assessment	Date
Assignment	Week of Dec 8 th 2025
Exam	Week of Jan 12 th , 2026