

Introduction to Artificial Intelligence

Outline & Assessment

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1 Course material

2 Assessment

3 Module Outline

Course Material

- **Artificial Intelligence: A Modern Approach**

by Stuart Russell and Peter Norvig

- **Reinforcement Learning: An Introduction**

by Richard Sutton and Andrew Barto

- **Deep Learning**

by Ian Goodfellow, Yoshua Bengio and Aaron Courville

- **Swarm Intelligence**

by Russell Eberhart, Yuhui Shi and James Kennedy

- Some academic papers ■



Assessment

- 100% coursework
- Report deadline: see Moodle
- Presentations deadline: see Moodle
- Groups of size 4
- Choose a topic (in agreement with your lab tutor)
- Topics should be approved by (see Moodle).
- Presentation/demo is worth 50% of the marks
 - Video demonstrating the work ■
- Report submission (carrying 50% of the marks) consists of the following:
 - Report in PDF (\LaTeX template provided, 1,500 words)
 - Code



Plan

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Module outline

Among the topics covered are the following:

- Introduction to AI: Symbolic & Subsymbolic AI
- Neural Networks and Deep Learning
- Reinforcement learning
- Clustering
- Ethical considerations in AI
- etc. ■

