

CSU33061

Artificial Intelligence I

SEMESTER 2 (JAN-APR 2024)

*The following is based on what I know as of 19 January 2024,
and is subject to change.*

LECTURES Tue 2-4 pm TBSI B1.15 after Week 1

An effort will be made to record these lectures live on BB Collaborate Ultra in consideration for the ill and others unable to attend.¹

Slides, links and announcements can be found in

<https://scss.tcd.ie/Tim.Fernando/AI>

which you should refresh for updates made as the term progresses.

The main topics are

- Search: blind & informed (A*)
- Q-learning & Markov Decision Processes
- Constraint Satisfaction & Knowledge Representation
- Bayesian & Markov nets
- Neural nets

Two useful textbooks are

Artificial Intelligence: A Modern Approach,
by Stuart Russell and Peter Norvig (4th edn, 2020)
<https://aima.cs.berkeley.edu>

and

Artificial Intelligence: Foundations of Computational Agents,
by David Poole and Alan Mackworth (3rd edn, 2023)
<https://artint.info/>

Homework out in Weeks 3 and 8 (due 2 weeks later) will be worth 20% of your final mark, leaving 80% for the 2-hour in-person exam at the end.

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¹There is *no* guarantee that everything of interest at lecture will make it into the recordings nor that questions asked online will be answered.