# Solent University

# Coursework Assessment Brief

# Assessment Details

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| Module Title: | Introduction to Artificial Intelligence |
| Module Code: | COM526 |
| Module Leader: | Dr Drishty Sobnath |
| Level: | 5 |
| Assessment Title: | Introduction to AI |
| Assessment Number: | AE1 |
| Assessment Type: | Portfolio Report with Supporting Artefact |
| Restrictions on Time/Word Count: | 2000 words |
| Consequence of not meeting time/word count limit: | There is no penalty for submitting below the word/count limit, but students should be aware that there is a risk they may not maximise their potential mark.  Assignments should be presented appropriately in line with the restrictions stated above; if an assignment exceeds the time/word count this will be taken in account in the marks given using the assessment criteria shown\*. |
| Individual/Group: | Individual |
| Assessment Weighting: | 50% |
| Issue Date: | Week starting 27th September 2021 |
| Hand In Date: | 10th November 2021 |
| Planned Feedback Date: | Within 4 weeks after submission |
| Mode of Submission: | Online via Solent Online Learning (SOL) |
| Number of copies to be submitted: | 1 |
| Anonymous Marking | This assessment will be marked anonymously. |

# Assessment Task

You will have the opportunity to complete activities throughout the module which will develop your understanding of different topics covered in class. The first assessment (AE1) will require you to produce a portfolio of all weekly activities provided in class and their respective solutions (Week 1-Week 5 only). This will include some AI concepts and theory, the design of a series of algorithms and simple problems using AI techniques. You will then need to submit a portfolio report to discuss how you came up with the solutions for each week with supporting literature. This will be an individual assessment. Examples of writing a portfolio will be discussed in class.

The purpose of the portfolio is to show a systematic approach to documenting your work in such a way that you or somebody else could easily refer to at a later date. Therefore, presentation of the work, supported by literature, will be a crucial component. In addition to the examples given, marks will also be awarded to those who provide extra examples, critical thinking to help clarify important aspects of the weekly activities.

# Assessment criteria

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| **Grades: F1-F3** | **Grades: D1-D3** | **Grades: C1-C3** | **Grades: B1-B3** | **Grades: A1-A4** |
| **Introduction and Overall Report (25%)** | | | | |
| Little or no clear introduction to the topic. | Outlines a basic introduction to the topic | Identifies relevant key themes using appropriately cited sources. | Detailed introduction and overview of the topic supported by a wide range of appropriate sources. The report is unambiguous and clear. | Excellent introduction and overall report. Evidence of independence of thought and ability to build upon experience, supported by literature from high quality resources. |
| **Solutions to Exercises (50%)** | | | | |
| Wrong solutions or no solutions provided to most exercises. Poorly expressed, missing key information or with significant factual errors. Below satisfactory standard of achievement against the criteria. | Basic summary of the solutions which demonstrates an understanding consistent with the minimum learning outcomes. | Satisfactory performance. Solutions provided demonstrate overall understanding of AI fundamentals and key concepts with an appropriate literature. | Detailed summary of the solutions. Good understanding and analysis of the problem. Analyses a wide range of appropriate sources and information. | Comprehensive analysis of all problems with an excellent level of analysis. An excellent range of high-quality solutions provided from the literature and critically analysed for all solutions. |
| **Professionalism and Communication (25%)** | | | | |
| Poor quality communication and presentation of information, lack of appropriate sources and referencing. | Basic communication and presentation of information, writing in an appropriate academic style which meets university requirements. | Good quality of academic writing and presentation, clearly articulating key elements of the report and supporting with appropriate images and referencing style. | High quality of academic writing clearly presents the issues and relevant data making use of appropriate referencing and formatting. | Excellent quality analytical detail and high-quality use of literature and references. Comprehensive, professional quality of communication and presentation of information. |

# Learning Outcomes

Through this assessment, students will be able to

1. Apply technical knowledge, concepts and skills to the design and construction of an intelligent agent.
2. Understand some of the fundamental methods and algorithms of AI, and an appreciation of how they can be applied to interesting problems.
3. Understand the agent-based environment view in AI.
4. Reflect on the impact and application of artificial intelligence in a business application.
5. Apply critical thinking and gain problem-solving skills.

# Late Submissions

Students are reminded that:

1. If this assessment is submitted late i.e. within 5 working days of the submission deadline, the mark will be capped at 40% if a pass mark is achieved;
2. If this assessment is submitted later than 5 working days after the submission deadline, the work will be regarded as a non-submission and will be awarded a zero;
3. If this assessment is being submitted as a referred piece of work then it must be submitted by the deadline date; any Refer assessment submitted late will be regarded as a non-submission and will be awarded a zero.

<https://students.solent.ac.uk/official-documents/quality-management/academic-handbook/2o-assessment-principles-regulations-temporary-amendments-for-covid-19-contingency-plans.pdf>

# Extenuating Circumstances

The University’s Extenuating Circumstances procedure is in place if there are genuine circumstances that may prevent a student submitting an assessment. If students are not 'fit to study’, they can either request an extension to the submission deadline of 5 working days or they can request to submit the assessment at the next opportunity (Defer). In both instances students must submit an EC application with relevant evidence. If accepted by the EC Panel there will be no academic penalty for late submission or non-submission dependent on what is requested. Students are reminded that EC covers only short term issues (20 working days) and that if they experience longer term matters that impact on learning then they must contact the Student Hub for advice.

Please find a link to the EC policy below:

<https://students.solent.ac.uk/official-documents/quality-management/academic-handbook/2p-extenuating-circumstances.pdf>

# Academic Misconduct

Any submission must be students’ own work and, where facts or ideas have been used from other sources, these sources must be appropriately referenced. The University’s Academic Handbook includes the definitions of all practices that will be deemed to constitute academic misconduct. Students should check this link before submitting their work.

Procedures relating to student academic misconduct are given below:

<https://students.solent.ac.uk/official-documents/quality-management/academic-handbook/4l-student-academic-misconduct-procedure.pdf>

**Ethics Policy**

The work being carried out by students must be in compliance with the Ethics Policy. Where there is an ethical issue, as specified within the Ethics Policy, then students will need an ethics release or an ethical approval prior to the start of the project.

The Ethics Policy is contained within Section 2S of the Academic Handbook:

<https://staff.solent.ac.uk/official-documents/quality-management/academic-handbook/2s-solent-university-ethics-policy.pdf>

**Grade marking**

The University uses a letter grade scale for the marking of assessments. Unless students have been specifically informed otherwise their marked assignment will be awarded a letter grade. More detailed information on grade marking and the grade scale can be found on the portal and in the Student Handbook.

<https://students.solent.ac.uk/official-documents/quality-management/academic-handbook/2o-annex-3-assessment-regulations-grade-marking-scale.docx>

**Guidance for online submission through Solent Online Learning (SOL)**

<http://learn.solent.ac.uk/onlinesubmission>