The Hong Kong University of Science and Technology (Guangzhou)

UG Course Syllabus

[Course Title] Introduction to AI

[Course Code] AIAA 2205

[No. of Credits] 3 credits

[Any pre-/co-requisites] UFUG2601 OR UFUG2602

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Office Hours: Tuesday 3:30 PM-4:30 PM, E4-407

Course Description

The objective of this course is to present an overview of the principles and practices of AI and to address complex real-world problems. Through introduction of AI tools and techniques, the course helps students develop a basic understanding of problem solving, search, theorem proving, knowledge representation, reasoning and planning methods of AI; and develop practical applications in vision, language, and so on. Topics include foundations (search, knowledge representation, machine learning and natural language understanding) and applications (data mining, decision support systems, adaptive web sites, web log analysis).

Intended Learning Outcomes (ILOs)

By the end of this course, students should be able to:

1. Demonstrate a comprehension of advanced knowledge of Artificial Intelligence.

2. Demonstrate a comprehension of applications of Artificial Intelligence.

3. Recognize the limitations of current methods of Artificial Intelligence.

4. Apply programming and Artificial Intelligence skills.

5. Develop a broad interest in Artificial Intelligence and connect this knowledge to their major field of study.

6. Communicate effectively in written format to convey scientific knowledge and the application of modern technologies.

Assessment and Grading

This course will be assessed using criterion-referencing and grades will not be assigned using a curve. Detailed rubrics for each assignment are provided below, outlining the criteria used for evaluation.

Assessments:

[List specific assessed tasks, exams, quizzes, their weightage, and due dates; perhaps, add a summary table as below, to precede the details for each assessment.]

Assessment Task	Contribution to Overall Course grade (%)	Due date
Individual Assignment 1	30%	06/11/2025
Individual Assignment 2	30%	04/12/2025
Group Project	40%	10/12/2025

* Assessment marks for individual assessed tasks will be released within two weeks of the due date.

Mapping of Course ILOs to Assessment Tasks

[add to/delete table as appropriate]

Assessed Task	Mapped ILOs	Explanation
Individual Assignment	ILO1, ILO2, ILO3, ILO4, ILO5	Through problem-solving and implementation exercises, students demonstrate comprehension of AI knowledge (ILO1), applications of AI (ILO2), recognize current limitations (ILO3), and apply programming skills (ILO4, ILO5).
Final Group Project	ILO1, ILO2, ILO3, ILO4, ILO5, ILO6	In a collaborative project, students apply advanced knowledge of AI (ILO1), demonstrate applications (ILO2), recognize limitations (ILO3), implement solutions using programming/AI skills (ILO4), connect AI to broader fields (ILO5), and communicate findings effectively in written and oral formats (ILO6).

Grading Rubrics

[Detailed rubrics for each assignment will be provided. These rubrics clearly outline the criteria used for evaluation. Students can refer to these rubrics to understand how their work will be assessed.]

Final Grade Descriptors:

[As appropriate to the course and aligned with university standards]

Grades	Short Description	Elaboration on subject grading description
A	Excellent Performance	[Example: Demonstrates a comprehensive grasp of subject matter, expertise in problem-solving, and significant creativity in thinking. Exhibits a high capacity for scholarship and collaboration, going beyond core requirements to achieve learning goals.]
B	Good Performance	[Example: Shows good knowledge and understanding of the main subject matter, competence in problem-solving, and the ability to

		analyze and evaluate issues. Displays high motivation to learn and the ability to work effectively with others.]
C	Satisfactory Performance	[Example: Possesses adequate knowledge of core subject matter, competence in dealing with familiar problems, and some capacity for analysis and critical thinking. Shows persistence and effort to achieve broadly defined learning goals.]
D	Marginal Pass	[Example: Has threshold knowledge of core subject matter, potential to achieve key professional skills, and the ability to make basic judgments. Benefits from the course and has the potential to develop in the discipline.]
F	Fail	[Example: Demonstrates insufficient understanding of the subject matter and lacks the necessary problem-solving skills. Shows limited ability to think critically or analytically and exhibits minimal effort towards achieving learning goals. Does not meet the threshold requirements for professional practice or development in the discipline.]

Course AI Policy

Allowed with proper citations and prompt list.

Communication and Feedback

Assessment marks for individual assessed tasks will be communicated via Canvas within two weeks of submission. Feedback on assignments will include [specific details, e.g., strengths, areas for improvement]. Students who have further questions about the feedback including marks should consult the instructor within five working days after the feedback is received.

Resubmission Policy

Late submissions and resubmissions are NOT permitted after the deadline.

Required Texts and Materials

Not Required. Recommended reading materials will be introduced during classes.

Academic Integrity

Students are expected to adhere to the university's academic integrity policy. Students are expected to uphold HKUST(GZ)'s Academic Honor Code and to maintain the highest standards of academic integrity. The University has zero tolerance of academic misconduct. Please refer to Regulations for Academic Integrity and Student Conduct for the University's definition of plagiarism and ways to avoid cheating and plagiarism.

[Optional] Additional Resources

[List any additional resources, such as online platforms, library resources, etc.]