

# CS6528: INTERNSHIP IN ARTIFICIAL INTELLIGENCE

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## Effective Term

Semester B 2025/26

## Part I Course Overview

### Course Title

Internship in Artificial Intelligence

### Subject Code

CS - Computer Science

### Course Number

6528

### Academic Unit

Computer Science (CS)

### College/School

College of Computing (CC)

### Course Duration

Non-standard Duration

### Other Course Duration

Two Semesters (To undertake a research internship in Hong Kong/Dongguan or other approved locations)

### Credit Units

0-6

### Level

P5, P6 - Postgraduate Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Students should have completed at least 22 credit units (including all required courses) for the MSAI programme

### Precursors

Nil

### Equivalent Courses

Nil

### Exclusive Courses

CS6522 Project in Autonomous Driving  
CS6523 Internship in Autonomous Driving or

CS6524 Project in Generative AI or  
 CS6525 Internship in Generative AI or  
 CS6526 Project in Trustworthy AI or  
 CS6527 Internship in Trustworthy AI or  
 CS6529 Project in Artificial Intelligence or  
 CS6539 Internship in Autonomous Driving or  
 CS6540 Internship in Generative AI or  
 CS6541 Internship in Trustworthy AI or  
 CS6542 Internship in Artificial Intelligence

## Part II Course Details

### Abstract

This course aims to provide an opportunity for students to explore individually an area of AI of their own choice, e.g., AI applications in finance, healthcare, smart city, etc. It allows students to develop their skills and knowledge further in the area of interest. It provides the context for students to demonstrate their ability to integrate specialized knowledge that they have acquired in other preceding and concurrent courses of study and apply them to solve an advanced problem with a working solution.

Students are given an opportunity to work in an industrial setting by undertaking a research internship in Hong Kong/ Dongguan or other approved locations, under the joint supervision of a CityUHK faculty member and research supervisor at the host organisation.

### Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Identify a challenging problem related to modern AI, analyze the problem in detail; and propose innovative solutions through computing means.		x		
2	Provide a proof-of-concept for the solution by designing and developing a working system or application.			x	x
3	Implement and evaluate the developed system or application to match the initial system requirements.				x
4	Document and report the system design process, study, implementation and evaluation findings using different communication media.				x
5	Identify and integrate academic skills and knowledge in a research work environment.			x	x
6	Demonstrate the ability to conduct research independently, collaboratively, and professionally.		x	x	x

#### A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

#### A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

**A3: Accomplishments**

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

**Learning and Teaching Activities (LTAs)**

	<b>LTAs</b>	<b>Brief Description</b>	<b>CILO No.</b>	<b>Hours/week (if applicable)</b>
1	Project planning	Students will engage in identifying problems for investigation and drafting a project plan with appropriate milestones.	1	
2	Project proposal	Students will engage in analyzing the problem identified and researching on existing and/or related solutions. Then, in consultation with their supervisors, they will develop their own designs and solutions.	2	
3	Project implementation and evaluation	Students will participate in implementing the proposed solutions and validating their designs by testing and evaluating the completed solution.	3	
4	Project documentation	Students are required to produce regular progress reports and final report as an integral part of the project documentation. At the end, they are required to present their projects in the form of oral presentation and demonstration.	4	
5	Throughout the research internship	Regular communication with the faculty supervisor for guidance and support.	5	
6	Throughout the research internship	Supervision and periodic feedback from the research supervisor.	6	

**Assessment Tasks / Activities (ATs)**

ATs	CILO No.	Weighting (%)	Remarks ("- for nil entry)	Allow Use of GenAI?	
1	Project management and individual development of the student	1	10	-	Yes
2	Technical merit of the proposed solution, including the degree of innovation in the proposed design or solution	2, 3	50	-	Yes
3	Standard of final documentation	4	20	-	Yes
4	Standard of oral presentation	4	10	-	Yes
5	Actual research internship	5, 6	5	-	Yes
6	Feedback from the research supervisor and faculty supervisor	5, 6	5	-	Yes

**Continuous Assessment (%)**

100

**Additional Information for ATs**

For assessment of technical merit, report, and presentation, the project committee assigns two examiners, including the supervisor. The Supervisor is required to provide detailed information on all aspects of assessment. The Assessor will evaluate the CILOs 2-4 of the project. The Course Leader will review all projects, moderate consistency across a wide range of projects, and, where necessary, resolve discrepancies between grading of the Assessor and the Supervisor, drawing on the expertise of domain experts as needed.

**Assessment Rubrics (AR)****Assessment Task**

1. Project planning

**Criterion**

1.1 ABILITY to IDENTIFY problems for investigations.

1.2 ABILITY to PLAN a project schedule with appropriate milestones, and MAINTAIN the project schedule.

**Pass (P)**

Satisfactorily attaining the specified criteria

**Failure (F)**

Not even reaching marginal levels

**Assessment Task**

2. Project proposal

**Criterion**

- 2.1 ABILITY to ANALYZE a problem.
- 2.2 ABILITY to EVALUATE, COMPARE, and CONTRAST existing solutions.
- 2.3 ABILITY to DESIGN and INNOVATE new solutions.

**Pass (P)**

Satisfactorily attaining the specified criteria

**Failure (F)**

Not even reaching marginal levels

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**Assessment Task**

- 3. Project implementation and evaluation

**Criterion**

- 3.1 ABILITY to IMPLEMENT the proposed solution.
- 3.2 ABILITY to VALIDATE and TEST the implemented solution.
- 3.3 ABILITY to EVALUATE and INTERPRET results from the design, and COMPARE with existing solutions.

**Pass (P)**

Satisfactorily attaining the specified criteria

**Failure (F)**

Not even reaching marginal levels

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**Assessment Task**

- 4. Project documentation

**Criterion**

- 4.1 ABILITY to DOCUMENT the progress of the project in interim reports.
- 4.2 ABILITY to DOCUMENT the OUTCOMES of the project in a final report.
- 4.3 ABILITY to DEMONSTRATE project outcomes in an oral presentation.

**Pass (P)**

Satisfactorily attaining the specified criteria

**Failure (F)**

Not even reaching marginal levels

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**Assessment Task**

- 5. Research Work

**Criterion**

- 5.1 ABILITY to CONDUCT research in an industrial setting to fulfil the requirements as prescribed by the research supervisor.
- 5.2 ABILITY to DEVELOP a range of communication and soft skills and cross-cultural awareness to perform effectively in a research team.
- 5.3 ABILITY to REPORT and REFLECT on the learning experience.

**Pass (P)**

Satisfactorily attaining the specified criteria

**Failure (F)**

Not even reaching marginal levels

## Part III Other Information

**Keyword Syllabus**

The Project has no fixed formal syllabus. Each student will be required to undertake an individual piece of work, which is related to AI. The topic area of the dissertation will be chosen so that the aims of the Project can be achieved. Criteria for topic choice include: (i) compatibility with a subject area of AI, (ii) availability of a qualified supervisor; (iii) appropriate academic level; (iv) availability of necessary specialized resources. Topic areas include AI-based searching algorithms, reinforcement learning, knowledge representation, uncertainty reasoning, planning and acting; AI applications in finance, healthcare, smart city, etc.

**Reading List****Compulsory Readings**

Title	
1	N/A

**Additional Readings**

Title	
1	N/A