

Bachelor of Science (Honours) in

Innovative Design and **Artificial Intelligence** (self-financed)

创 新设计与人工智能 (荣誉) 理学士 (自资)



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INTRODUCTION 简介

The Bachelor of Science (Honours) in Innovative Design and Artificial Intelligence (BScIDAI) is a self-financed programme designed to bridge the gap between creative innovation and technical execution.

The BScIDAI self-financed programme fuses holistic design thinking with advanced AI engineering. Graduates emerge fully prepared to independently develop and deploy market-ready intelligent products across evolving industries.

创新设计与人工智能（荣誉）理学士（BScIDAI）自资课程，旨在融合创意创新与技术实现之间的差距。

本自资课程融合了整体设计思维与先进的人工智能工程技术。毕业生将具备全面能力，能够在不断发展的行业中独立开发并部署面向市场的智能产品。



PROGRAMME HIGHLIGHTS 课程特点

- ❖ **Interdisciplinary Integration: Design & AI**
The curriculum merges innovative design methodologies with artificial intelligence. This interdisciplinary approach bridges the gap between innovative thinking and technical rigour, cultivating professional talent for digital innovation.
- ❖ **跨学科融合：设计与人工智能**
本课程将创新设计方法与人工智能相结合。跨学科的教学模式融合了创新思维与技术严谨性之间的差距，培养能够推动数字创新的专业人才。
- ❖ **Holistic System Engineering**
Focusing on hardware-software integration, the programme covers system design, verification, and validation. This pillar ensures mastery in technical environments that require a seamless blend of software engineering and physical system integration.
- ❖ **整体系统工程**
课程聚焦于软硬件一体化，涵盖系统设计、验证与确认等内容。确保学生掌握在软件工程与物理系统集成的无缝融合技术环境中所需的核心能力。
- ❖ **Experiential Learning & Capstone Prototyping**
The programme emphasises project-based learning and Capstone design challenges. Theoretical study is directly applied to functional prototyping and real-world deployment, ensuring graduates are equipped for professional industry standards.
- ❖ **体验式学习与毕业专题原型开发**
本课程强调以项目为导向的学习模式以及毕业设计挑战。学生将把理论知识直接应用于功能性原型开发和真实场景部署，确保毕业生具备符合行业标准的实践能力。

Solid Computing
Foundations
扎实计算基础

Advanced AI
Engineering
先进人工智能工程

Innovative
Design Thinking
创新设计思维



System
Integration
系统集成

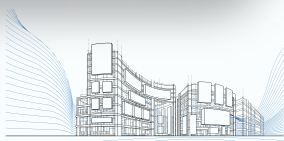
Embodied
Intelligence
具身智能

Product-Oriented
Development
产品导向开发

CURRICULUM 课程结构

Capstone Courses 毕业设计课程

- **Capstone 1 - Innovation, Technology and Design**
专题 1 - 创新、技术与设计
- **Capstone 2 - Design Challenge**
专题 2 - 设计挑战



Functional Courses (Part 2) 专业应用课程（第二部分）

- **Databases and Data Warehouses**
数据库与数据仓库
- **Intelligent Sensing and Control**
智能感知与控制
- **Image Processing**
图像处理
- **GPU and Parallel Computing**
GPU 与并行计算
- **Visualization**
可视化
- **Human Computer Interaction**
人机交互
- **Blockchain Technology**
区块链技术
- **Systems Integration, Verification, and Validation**
系统集成、验证与确认



Foundation Courses 基础课程

- **Introduction to Programming for Data Science**
数据科学编程导论
- **Calculus**
微积分
- **Probability and Statistics 1**
概率论与统计学 1
- **Mathematical Fundamentals for Data Science**
数据科学数学基础
- **Innovative Design Fundamentals**
创新设计基础

Elective Courses 选修课程

Any 3 courses 任选三门课程

Internet of Things
物联网

Cloud Computing
云计算

3D Modelling and Animation
3D 建模与动画

Algorithms
算法

Deep Learning
深度学习

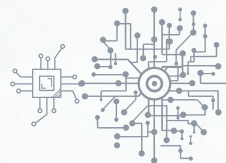
Web 3D Technology
Web 3D 技术

Optimization
优化

Embedded Systems
嵌入式系统

*offering subject to demand and available

*注：具体课程开设视学生需求及实际教学资源而定



Functional Courses (Part 1) 专业应用课程（第一部分）

- **Data Structures and Object-Oriented Programming**
数据结构与面向对象编程
- **Operating Systems for Data Science**
数据科学操作系统
- **C++ Programming**
C++ 编程
- **Networking**
计算机网络
- **Machine Learning for Innovative Design**
创新设计机器学习





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Admission Requirements 入学要求

<https://www.ln.edu.hk/admissions/ug/sc>

Chinese Mainland
Gaokao 内地应届高考生

Applicants Holding International
Qualifications 国际资历申请人



02

How to apply? 如何申请?

Apply Online 网上申请

<https://apply.ln.edu.hk>



03

Official website 官方网站

<https://www.ln.edu.hk/sds/dids/bscidai>

