

Bachelor of Science in
Integrative Systems and Design
理學士(綜合系統與設計)
Jupas Code: JS5711



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY



ISD



Division of Integrative Systems and Design

Integrative Systems and Design is a new paradigm for educating technologists and innovators, A more holistic systems perspective is necessary to truly innovate and tackle the problems of an ever-changing world.

Program Overview

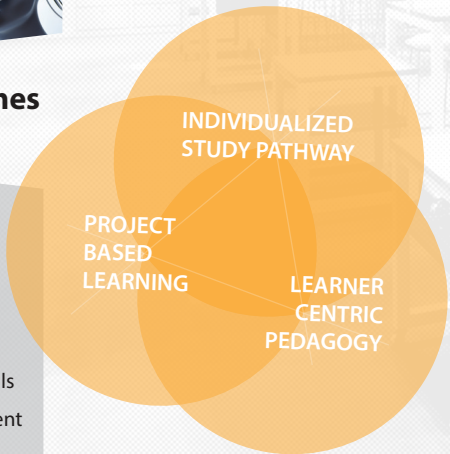
ISD uses integrative systems ranging from robotics to smart cities to biomedical systems to advance learning and knowledge through active teaching and transdisciplinary research.

Embedding design and system thinking into the curriculum, combined with an emerging pedagogy of project-based active learning, will develop students' technical competency, design thinking, understanding of complex and multi-disciplinary systems, and entrepreneurial spirit.



Program Outcomes

- Technical Competency
- Design Thinking
- Interpersonal Skills
- Entrepreneurial Spirit
- Hands-on Prototyping Skills
- Teamwork and Management





Year4 Impacts

Students are given the rare opportunity to resolve real-life problems with industry partners and make an interdisciplinary impact in the society.



First Experiential Learning Degree Program in Hong Kong

Year3 Expertise

Students will be exposed to advanced courses and projects of their interests and develop their industrial expertise.



Year2 Growth

An exploration phase through cross-disciplinary experiential learnings. Students are expected to locate their areas of interests and unleash their potentials.

Curriculum Highlights



Year1 Foundation

Fundamental courses in technology and innovation design, e.g. redefining problems, design principles, rapid prototyping, creative strategies and strategic innovations.



Admission

Targets recruitment of students with experience and potentials to excel in project-based learning and effective learning-by-doing. Three components will be considered in the admission assessment:



Design and Technology Experience Portfolio (DTP)




Public Examination Results



Practical Interview Through Design Activities

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