



Department of Applied Physics
應用物理學系

About the Department

The **Department of Applied Physics (AP)** is devoted to educating the future leaders, nurturing them with the best resources and opportunities. Our over 30 laboratories are equipped with cutting-edge facilities for students' learning and research activities in physics, materials science and engineering. AP ranks the first amongst physics departments in local universities with the highest percentage of "world-leading" research work in the Research Assessment Exercise 2020 of the University Grants Committee.

Career Prospects

AP graduates are serving the society in key positions and have made significant contributions to the smart city development of Hong Kong. A degree in physics opens the door to a broad range of career choices:

Tech-related Career

Data Scientist, AI Software Engineer and System Architect,
System Analysts, Analyst Programmer, IT Consultant

Industry-related Career

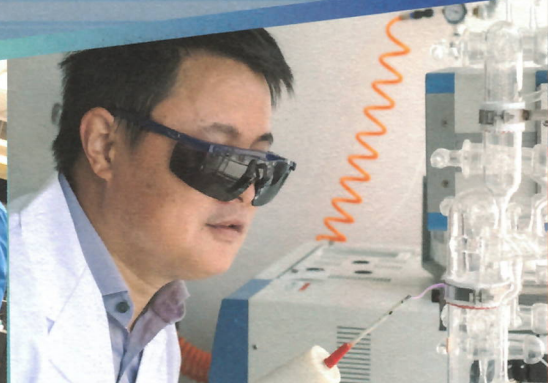
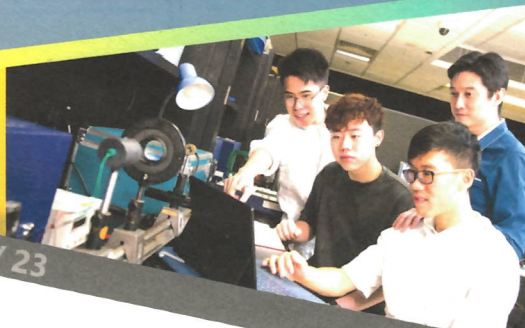
Technology Consultant, Engineer, System Developer

Professional Service-related Career

Medical Physicist, Lab Manager

Postgraduate Studies

MSc, MPhil or PhD in overseas or local universities



Bachelor's Degree Programme

BSc (Hons) in Physics with a Secondary Major in Artificial Intelligence and Data Analytics (AIDA) / Innovation and Entrepreneurship (IE) (JS3030)

Students will be awarded one of the following awards upon successful completion of the graduation requirements of the programme concerned:

BSc (Hons) in Physics with AIDA

With a strong emphasis on applications, students will be exposed to both fundamental and applied physics topics as well as the concepts in AI. The infusion of the two disciplines throughout the curriculum down to subject levels helps to consolidate students' learning, providing them with a competitive edge in the upcoming technology development. A diverse range of topics covered in the curriculum includes data analytics, machine learning, programming, neural networks, optical design with AI, smart sensors, and medical physics.

BSc (Hons) in Physics with IE

With a highly diversified curriculum covering fundamental and applied physics, innovation and business. A major highlight of the curriculum is the extended internship training in major technology enterprises or start-ups, providing golden opportunities for nurturing future innovation leaders in Hong Kong. A diverse range of topics covered in the curriculum includes optical design, smart sensors, etc. Besides, students will learn practical business skills such as project planning and risk analysis.

BSc (Hons) in Engineering Physics (11439-SY)

(Programme for Local Senior Year Admissions)

Engineering Physics is a unique programme that focuses on the application of physics to engineering. Students gain the ability to analyse and solve practical/ engineering problems, which prepares them for complex workplace situations and technological advances. Our graduates work in a variety of areas from education to manufacturing and service in industrial sectors, government organisations, testing and certification, medical engineering, aviation industry, software development and financial sector.



Enquiry

E apdept@polyu.edu.hk

W <https://www.polyu.edu.hk/ap>



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



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