

PROGRAMME CHARACTERISTICS

The Satellite Engineering MSc programme is designed to complement the rapidly evolving global space economy. It offers comprehensive coverage of both the engineering fundamentals and practical applications of satellites, including satellite orbital dynamics, spacecraft dynamics and propulsion systems, spacecraft testing and verification, satellite payload and sensor design, as well as satellite navigation and remote sensing. In addition, the curriculum features innovative courses on emerging topics such as the new space economy. This programme equips students with the knowledge and skills needed to excel and remain competitive in today's fast-growing space industry.

The mixed mode of study allows students to study either **full time or part time**. Local students can vary their study mode from semester to semester according to their personal preferences.*

Core Subjects

AAE5208	Satellite Engineering
AAE5210	Space Vehicle Propulsion Systems
AAE5211	Spacecraft Dynamics
AAE5401	New Space Economy
LSGI533	Satellite Positioning & Navigation
LSGI536	Remote Sensing Image Processing

Elective Subjects

AAE5206	Artificial Intelligence in Aerospace Engineering
AAE5212	Engineering Computations and Modelling
AAE5402	Ground Segment and Satellite Operations
AAE5403	Spacecraft Testing and Verification
LSGI549	Advanced Photogrammetry and Computer Vision
LSGI581	Satellite Payload and Sensor Instrumentation

AWARD REQUIREMENTS

To qualify for the MSc in Satellite Engineering,[#] students must fulfill the Academic Integrity and Ethics (AIE) Requirement and complete one of the following tracks:

- 7 taught subjects, including 6 Compulsory Core Subjects, and a **Dissertation**; or
- 10 taught subjects, including 6 Compulsory Core Subjects.

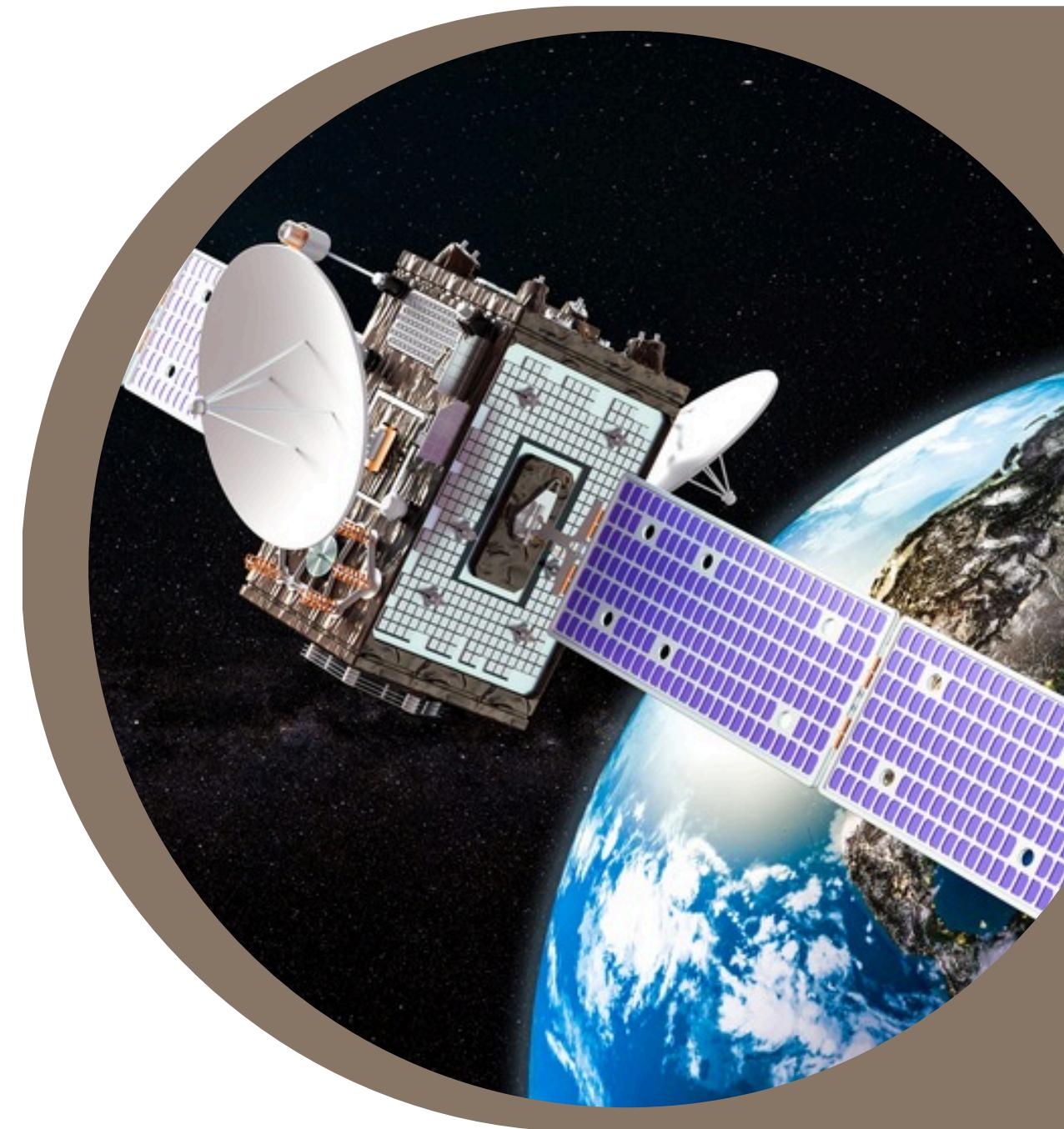
** This flexibility is not available to non-local students, who are constrained by visa requirements.*

Students have the option to apply for and receive a Postgraduate Diploma (PgD) upon meeting the specified criteria.

CONTACT

General enquiries
AAE General Office
Email: aae.info@polyu.edu.hk

Academic matters and detailed programme information
Professor Bing XU
Email: pbing.xu@polyu.edu.hk



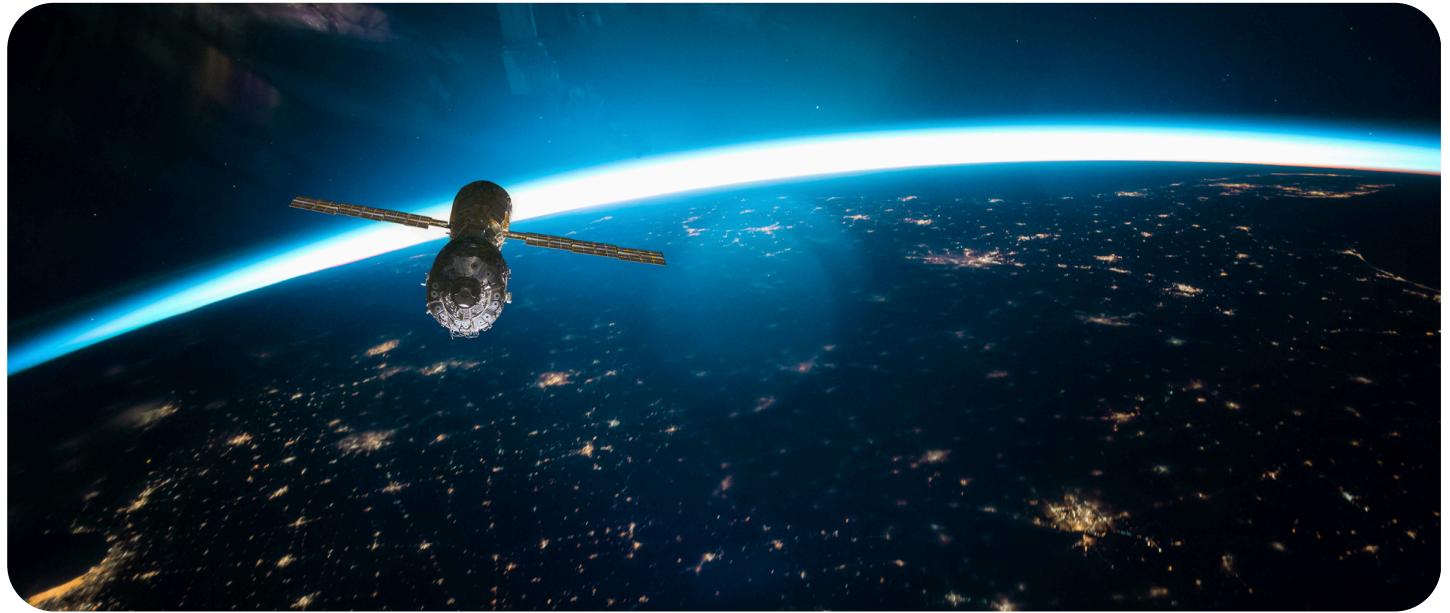
48008

**MASTER OF SCIENCE
IN SATELLITE ENGINEERING**
衛星工程理學碩士學位

For 2026/27 September Entry

(This programme is offered subject to approval)

Information presented in this leaflet is subject to changes and does not form part of any contract between the University and any person.



WHY SATELLITE ENGINEERING?

Specialising in satellite engineering opens doors to a rapidly expanding sector, as the new space economy gains momentum in Hong Kong, the Greater Bay Area (GBA), and China. With strong support from the governments and policy initiatives, there is a growing demand for professionals who possess both technical expertise and project management skills in satellite technology. Leading spacecraft companies are actively seeking talent to drive innovation in this field.

This programme offers a unique blend of foundational and advanced knowledge, covering satellite fundamentals, system engineering, project management, and the new space economy. Students learn from industry and academic experts and gain real-world exposure through visits to commercial space enterprises. Graduates could definitely gear up themselves for pursuing their career in satellite/space companies and research institutions and handling the innovative project in renowned space agencies.

PROGRAMME AIMS

- To provide advanced education and training for students who intend to upgrade their knowledge and to seek a higher-level career in the area of satellite engineering and management;
- To enable students to develop their competence and increase their competitiveness in the job market to become the backbone of the space industry;
- To enable students to have a good understanding and mastery of the most up-to-date and advanced technologies in the area of satellite engineering, and
- To enable students to apply their learned knowledge and skills to solve problems encountered in practice.

ADMISSION

Applicants should hold a Bachelor's degree with Honours in engineering, science, or technology, or an equivalent qualification.

Consideration will also be given to candidates without Honours degrees, but have other relevant qualifications and/or appropriate work experience.

Applicants who are not native speakers of English, and the Bachelor's degree or equivalent qualification is awarded by institutions where the medium of instruction is not English, are expected to fulfil the following minimum English language requirement:

- A score of 80 or above in the Test of English as a Foreign Language (TOEFL) Internet-based test; OR
- An Overall Band score of 6.0 or above in the International English Language Testing System (IELTS) Academic module.

IMPORTANT DATES

- Period of application: Now until 30 April 2026
 - Early Round Application Deadline: 15 October 2025
 - Main Round Application Deadline: 15 January 2026
 - Extended Round Application Deadline: 30 April 2026
- Commencement of study: 1 September 2026

FINANCIAL AID AND SCHOLARSHIPS

Tuition Fee

HKD 8,500 per credit for local and non-local students. No tuition charge for the 1-credit Academic Integrity and Ethics subject.

Scholarships

Merit-based AAE MSc Dissertation Scholarship* is available for students who opt to complete a 9-credit dissertation.

*PolyU reserves the right to change or withdraw a scholarship at any time. In the case of any dispute/disagreement, PolyU's decision is final.

