

# BSc (Hons) in RADIOGRAPHY

JUPAS Code: JS3612

## Introduction



The BSc (Hons) in Radiography in PolyU is the only government-funded radiography programme in Hong Kong. The programme provides students with an academically challenging and vocationally relevant professional education, and to equip them with independent thinking, analytical and clinical decision-making skills.

The four-year programme, involving Medical Imaging (MI) and Radiation Therapy (RT), provides opportunities for students to learn the foundations of both specialties in the junior year. Students will then specialize in one of them in Year 2 Semester 2 to meet local professional registration requirements upon graduation.

### Medical Imaging (MI) 醫療影像

Diagnostic Radiography, also referred to as Medical Imaging, involves the production of medical images using ionizing radiation, magnetic resonance or ultrasound, in assisting diagnosis and monitoring of diseases. Diagnostic radiographers handle different sophisticated imaging equipment and carry out imaging procedures in the radiology departments, accident and emergency departments, hospital wards and operating theatres. Besides general radiography, diagnostic radiographers can develop their sub-specialties including computed tomography, interventional radiology, ultrasound, magnetic resonance imaging and nuclear medicine after graduation.

### Radiation Therapy (RT) 放射治療

Radiation therapy involves treatment of diseases using high energy ionizing radiation. Radiation therapists are involved in the treatment planning and delivery of radiation to cancer patients. They play a primary role in designing treatment plans for patients, including the localization of the tumours and important organs, simulation, determination of beam profiles and complex dose calculations. During daily treatments, radiation therapists deliver precise doses of radiation to the patients with the guidance of advanced imaging modalities such as computed tomography and magnetic resonance imaging. Their roles also include regular assessment of side-effects and offer professional advices to patients and their relatives throughout the course of cancer treatment.

## Professional Recognition

### Graduates are:

- Eligible to register as Part II Radiographers in the Radiographers Board of Hong Kong;
- Recognized by overseas registration bodies including those in the United Kingdom, Singapore, New Zealand and Australia (with at least one year of clinical experience).





## Career Prospects

### Graduates may:

- Work as diagnostic radiographers or radiation therapists locally or overseas in hospitals, clinics and laboratories;
- Take up positions in medical related commercial sectors;
- Choose to further their studies by taking taught postgraduate or research programmes in local or overseas universities.



## Curriculum Overview

Apart from the General University Requirements and elective subjects, students are required to take Discipline-Specific Requirements subjects as shown below:

### Foundation Subjects

- Chinese Communication for Health Science
- Foundation Pathology
- Human Anatomy
- Human Physiology
- Professional English for HTI Students
- Physics in Radiological Science
- Radiographic Imaging Science
- Systemic Physiology
- Physics II or Introduction to Physics

### Applied Subjects

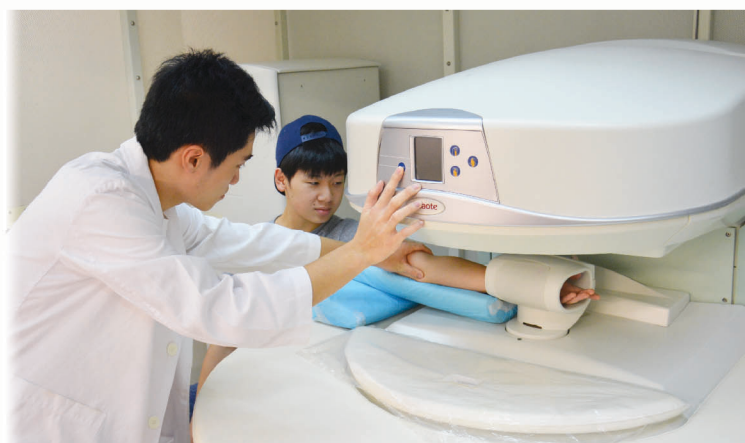
- Clinical Skills in Radiography Practice
- Exploring Radiography
- Imaging Anatomy
- Imaging Informatics
- Imaging in Radiotherapy
- Introduction to Clinical Research for Radiography
- Legal and Ethical Issues in Healthcare
- Medical Informatics
- Medical Imaging Instrumentation
- Project
- Radiobiology
- Radiotherapy Equipment and Dosimetry I, II & III
- Radiation Protection

### Professional Subjects

- Computed Tomography
- Magnetic Resonance Imaging
- Medical Imaging Studies I, II & III
- Radionuclide Imaging
- Radiotherapy Patient Management
- Radiotherapy Studies I, II, III & IV
- Special Cancer Therapy
- Ultrasonography
- Vascular and Interventional Radiology

### Clinical Subjects (WIE)

- Clinical Studies I, II, III, and IV



## Entrance Requirements

### 1. University's General Entrance Requirements

4 core subjects and 2 elective subjects with:

- Level 3 in English Language, Chinese Language and two elective subjects; and
- Level 2 in Mathematics and Liberal Studies



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### 2. Subjects with the Highest Weighting in the Calculation of Admission Scores

- English
- Chinese
- Science subjects: Physics, Chemistry, Biology
- Combined Science subjects
- Mathematics

Normal colour vision is not one of the admission criteria, but applicants should note that normal colour vision may be required for employment in the radiation therapy profession. Although proficiency in Cantonese is not one of the admission criteria either, applicants should understand that students in radiation therapy stream often need to communicate with patients in Cantonese in clinical training.

## Contact Information

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