



Master of Medical Imaging 2024/25 Information Seminar 12 Oct 2024

Dr Shara LEE | Associate Professor

Programme Leader PhD, MSc (Cardiol), BSc Hons (1st), FHKCRRT, FHEA Deputy Programme Leader (BSc (Hons) Radiography)

Deputy Programme Leader Mr. Edward WONG | Associate Professor of Practice Clinical Coordinator (MMI)

laster of Medical Imaging Information Seminar 2024/25

IONG KONG ECHNIC UNIVERSITY

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學





Master of Medical Imaging

醫療影像 碩士學位

Professional Recognition

Graduates are eligible for registration in Part II of the Register of the Radiographers Board of Hong Kong. They are also recognised by many overseas registration bodies, including those in the UK, Singapore, New Zealand and Australia (after gaining a year of clinical experience). ^

Our graduates can find employment with the Hospital Authority, which recognises the degree as an entry qualification. Employment opportunities are also available in private hospitals, in clinics and laboratories, and in the commercial sector. ^ Subject to approval



Programme Aims

This programme equips students with the theoretical and practical skills to become entry-level diagnostic radiographers, emphasizing:

- Fundamental Knowledge: In-depth understanding of medical imaging theories and clinical skills.
- Practical Skills: Hands-on training for medical imaging procedures.
- Professional Development: Patient care, communication, and teamwork abilities.
- Critical Thinking & Innovation: Independent decision-making, problem-solving, and understanding of a radiographer's role in healthcare.
- Lifelong Learning & Research: Commitment to continuous learning and research for career advancement.

Characteristics

The clinical practicum, a pivotal part of the curriculum, is facilitated through Hospital Authority departments. Over the programme's 2-year span, students gain 1,344 hours of hands-on clinical experience. This extensive clinical training is mandatory for accreditation by the Hong Kong Radiographers Board. Per government ordinance, this accreditation is essential for Radiographer (Category: Diagnostic) roles in Hong Kong.



MEDICAL IMAGING

- Professional training to become radiographers (放射師)
- Radiographers produce high quality medical images that help doctors to diagnose and monitor disease



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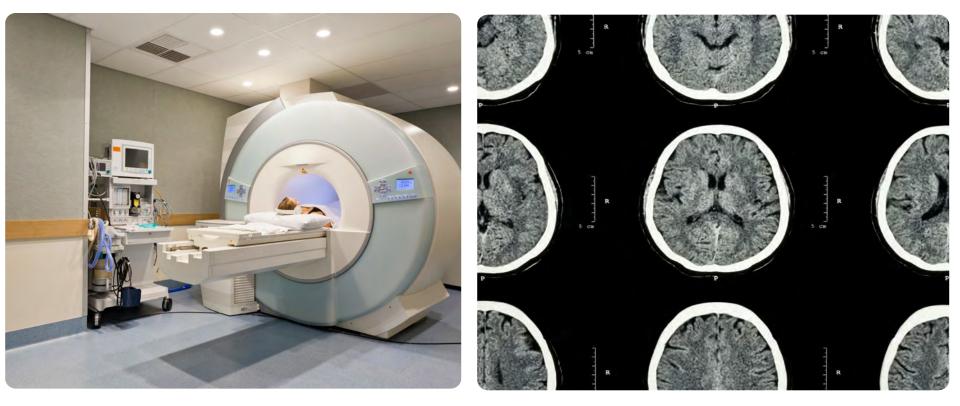
Hong Kong Technic University



MEDICAL IMAGING MODALITIES Plain X-Ray



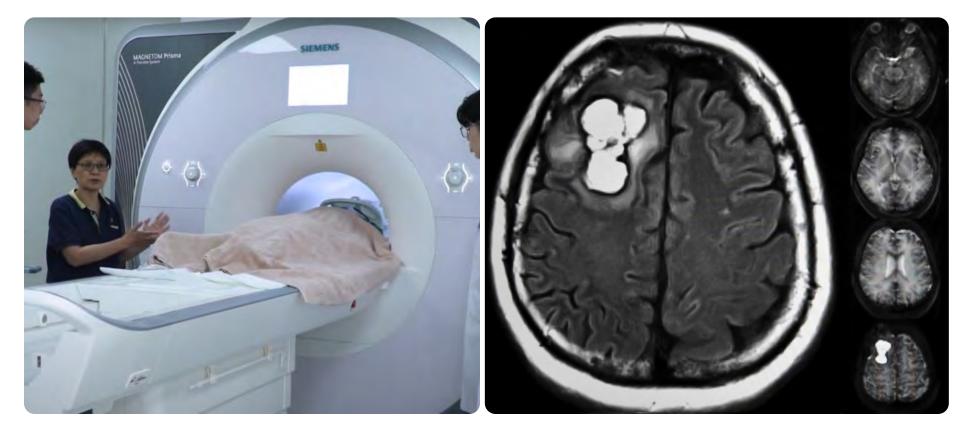




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MEDICAL IMAGING MODALITIES Magnetic Resonance Imaging (MRI)

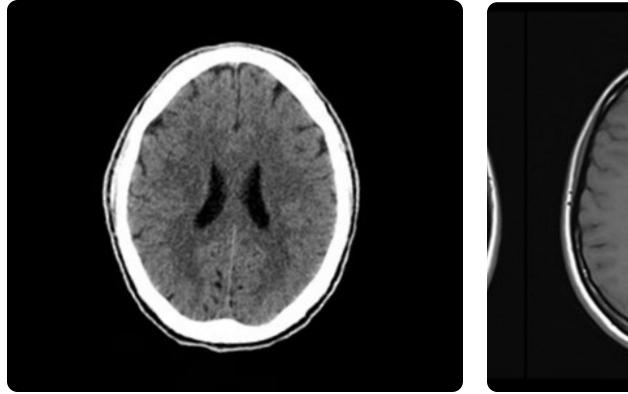


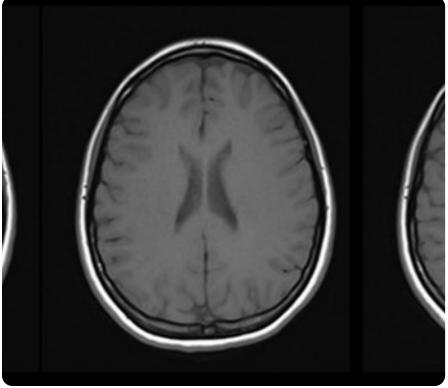
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MEDICAL IMAGING MODALITIES CT vs MRI Images





MEDICAL IMAGING MODALITIES Diagnostic Ultrasonography (USG)

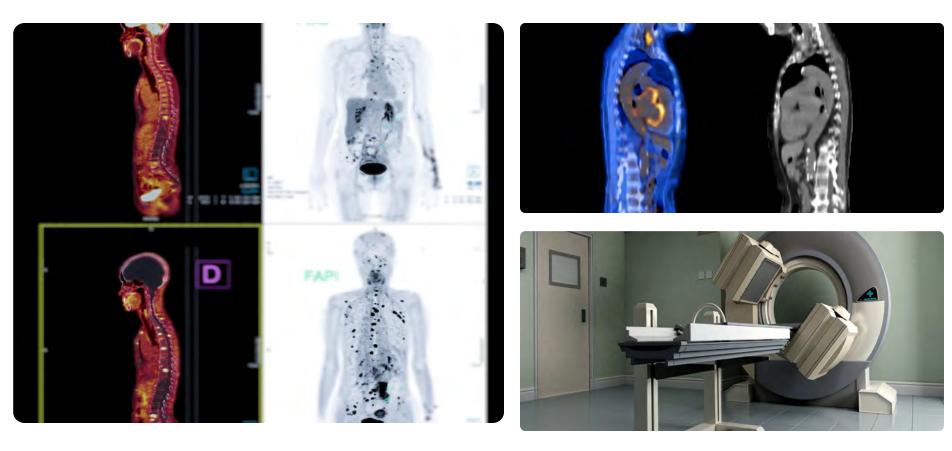


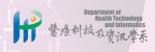
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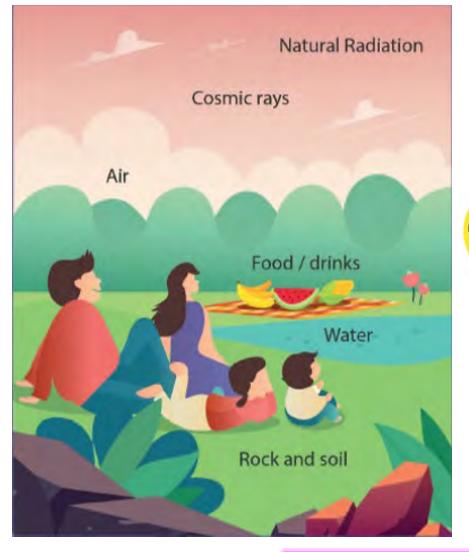


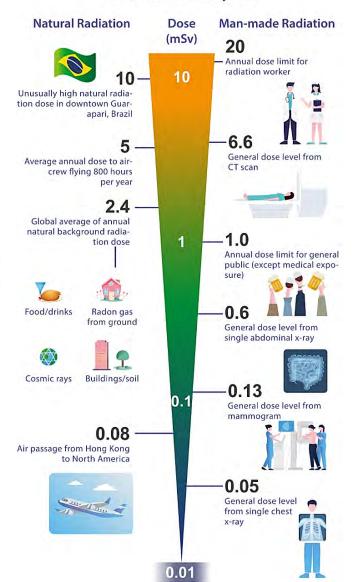
MEDICAL IMAGING MODALITIES Nuclear Medicine (NM)





We are living with radiation



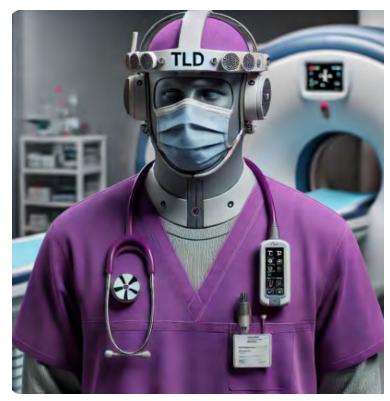


Radiation in Daily Life

Ref: https://www.sb.gov.hk/eng/special/nuclear/Radation.html







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Legal Requirements



Maximum Permissible Dose Limit

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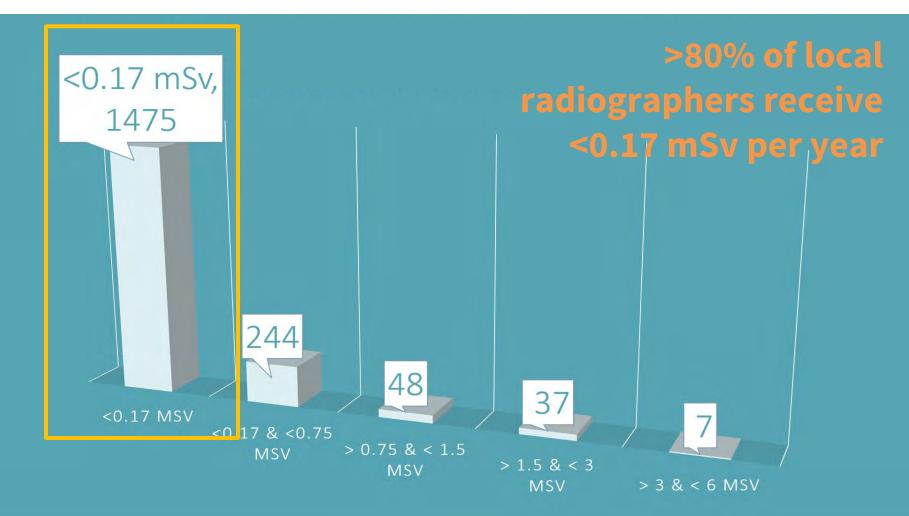
20 mSv/year for

radiation workers





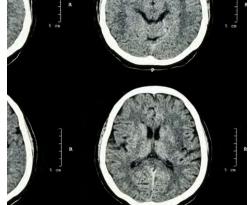
Distribution of annual whole-body dose of local radiographers (2020)



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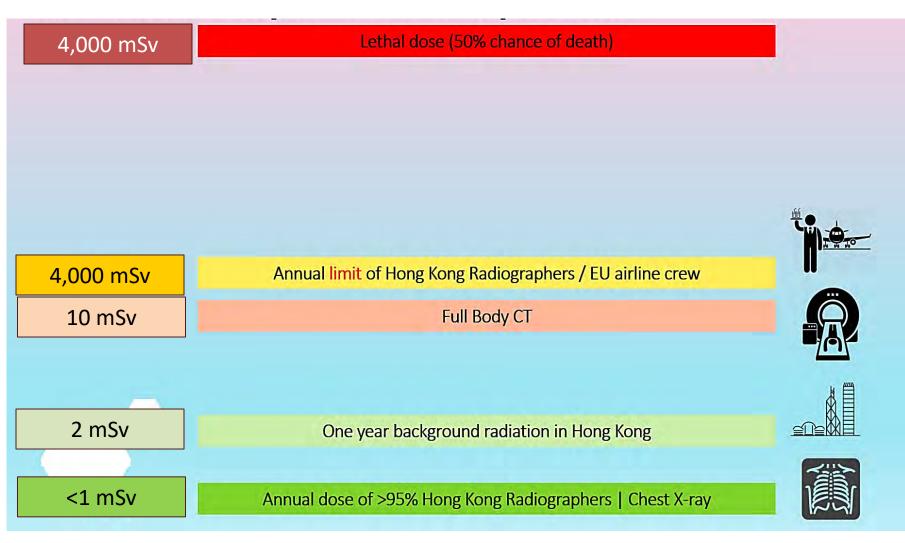
CT Chest (~7-10 mSv)

10 DaysRound TripBackground \thickapprox HK andRadiationLondon(~0.1 mSv)(0.08 mSv)

>80% of local radiographers receive <0.17 mSv per year

(0.1 mSv)

Level of Radiation Exposures

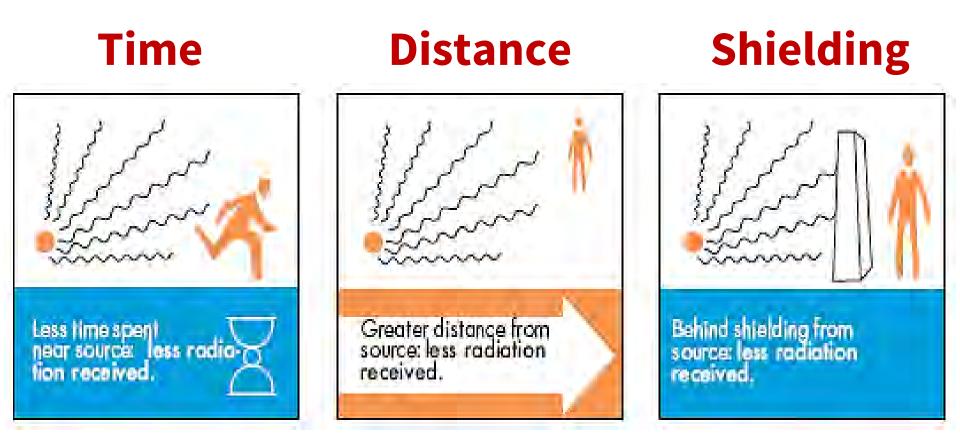


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Radiation Protection is KEY





Radiation Protection is KEY











Housing back (towards the body)

Housing front (towards the source)

Programme Overview

Master of Medical Imaging (MMI)

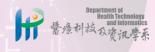
- 2-year Full-time Professional Master Programme
- 90 credits (1 credit = 13 hours of work)
 - o 6 Foundation Subjects: 19 credits
 - o 16 Professional Subjects: 47 credits
 - o 4 Clinical Subjects: 24 credits



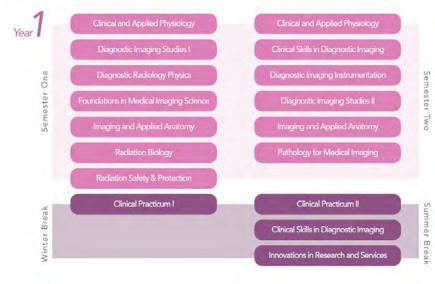
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Progression Pattern*

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Master of Medical Imaging





Other Requirements

- · Complete the 1-credit Academic Integrity and Ethics (AIE) subject
- · Complete the e-learning module on "Understanding China and the Hong Kong Special Administrative Region, P.R.C."
- *Subject to change and for reference only. For details of the curriculum, please refer to Programme Requirement Document.



Credit Required for Graduation 91

Tuition Fee

HK\$7,850 per credit (x 90 credits) for local and non-local students (Note: There is no tuition charge for the 1-credit AIE subject)

Mode of Attendance Full-time mode

Normal Duration

Entrance Requirements

A Bachelor's degree in sciences, preferably physics, biological sciences or health-related disciplines from PolyU or a recognised institution. Other qualifications may be considered on an individual basis.

Preference will be given to applicants who are able to communicate effectively in English and Cantonese.

Preference will be given to applicants who have obtained credits for each of the following prerequisite undergraduate-level courses before admission to the programme.

- Human Physiology (3 credits or equivalent)
- Human Anatomy (3 credits or equivalent)

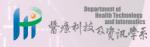
Contact Information

Department of Health Technology and Informatics The Hong Kong Polytechnic University Web site: www.polyu.edu.hk/hti Tel: (852) 3400 8578 Fax: (852) 2362 4365 Email: httpg@polyu.edu.hk



Sample Progression Pattern





		Semester 1 (15 credits)			Winter (3 credits)			
Year 1		Code (Ref Only)	Subject	Credit	Subject Code	Subject	Credit	
		HTI5201	Clinical and Applied Physiology	L	Code (Ref Only)	Clinical Practicum I (4 Wks)	3	
		HT15206	Imaging and Applied Anatomy	L				
		HTI5203	Foundations in Medical Imaging Science	3				
		HTI5211	Diagnostic Imaging Studies I	4				
		HTI5204	Radiation Safety & Protection	3				
		HTI5205	Diagnostic Radiology Physics	3				
		HTI5007	Radiation Biology	2				
	-	Semester 2 (18 credit	ts)		Summer (12 credits)			
		Code (Ref Only)	Subject	Credit	Code (Ref Only)	Subject	Credit	
		Ever	15 credits = 1 v lecture hour = 5 h			revision		
		Ever	y lecture hour = 5 h (Level 5 su	OU	r of self	-revision	Credi	
		11113213	y lecture hour = 5 h (Level 5 su	ou bje	r of selfect)		Credit 3	
	Y2 Semester 1	HT15215	y lecture hour = 5 h (Level 5 su Healthcare Research and Informatics	ou bje	r of self	-revision	3	
	Y2 Semester 1	HTI5215 HTI5208 HTI5215	y lecture hour = 5 h (Level 5 su Healthcare Research and Informatics Nuclear Medicine	ou bjo	r of selfect)		3	
	Y2 Semester 1	HT15215 HT15208 HT15215 HT15216	y lecture hour = 5 h (Level 5 su Healthcare Research and Informatics Nuclear Medicine Medical Ultrasonography	OU bj 3 3 3	r of selfect)		3	
	Y2 Semester 1	HTI5215 HTI5208 HTI5215 HTI5216 HTI5213	y lecture hour = 5 h (Level 5 su Healthcare Research and Informatics Nuclear Medicine Medical Ultrasonography Diagnostic Imaging Studies III	OU bj 3 3 3 3 3	r of selfect)		3	
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fear 2		HTI5213 HTI5208 HTI5215 HTI5216 HTI5213 HTI5214 Semester 2 (11 credit Code (Ref Only) HTI5209 HTI5219	y lecture hour = 5 h (Level 5 su Healthcare Research and Informatics Nuclear Medicine Medical Ultrasonography Diagnostic Imaging Studies III Essential Magnetic Resonance Imaging ts) Subject Advanced Medical Imaging Informatics Innovations in Research and Services	Credit 2 L	r of self- ect) HTI5219 Summer (0 credits) Code (Ref Only) HTI5223	Innovations in Research and Services Subject Clinical Practicum IV (14 Wks)	3 5 L Credi 9	

Clinical Practicum

Essential Training for professional recognition

- Conducted in Hospital Authority and private hospitals departments.
- Clinical Placement: **1,344 hours** across TWO years, required for registration with the Hong Kong Radiographers Board.
- Supervision: Clinical educators and mentors from diagnostic Radiology departments, in collaboration with university staff.
- Assessment System: Progress reports, case worksheets, clinical assessments, OSCE to assess clinical, professional and interpersonal skills



ONG KONG CUNIC UNIVERSITY

Sample Progression Pattern



Department of Health Technology and Informatics 醫療科技及優祝學系

		Semester 1 (15 credits)			Winter (3 credits)			
		Code (Ref Only)	Subject	Credit	Subject Code	Subject	Credit	
		HTI5201	Clinical and Applied Physiology	L	Code (Ref Only)	Clinical Practicum I (4 Wks)		
		HTI5206	Imaging and Applied Anatomy	L				
		HTI5203	Foundations in Medical Imaging Science	3				
		HTI5211	Diagnostic Imaging Studies I	4				
		HTI5204	Radiation Safety & Protection	3				
		HTI5205	Diagnostic Radiology Physics	3				
Year 1		HTI5007	Radiation Biology	2				
earı								
		Semester 2 (18 credits)			Summer (12 credits)			
		Code (Ref Only)	Subject	Credit	Code (Ref Only)	Subject	Crec	
		HTI5201	Clinical and Applied Physiology	4	HTI5221	Clinical Practicum II (14 Wks)	9	
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5	days/	week,	7.5 hrs/day (exa	m				
5	days/	week,		m		Subject	Crea	
5	days/	week,	7.5 hrs/day (exa	m		Subject Clinical Practicum III (4 Wks)	Crec 3	
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5	days/	week, otal ho	7.5 hrs/day (exa urs ~ 1350 hours	m	ple)	Clinical Practicum III (4 Wks)	3	
5	days/ To	week, otal ho	7.5 hrs/day (exa urs ~ 1350 hours		ple)	Clinical Practicum III (4 Wks)	3	
5	days/ To	week, otal ho ^{HTI5219} HTI5208 HTI5215	7.5 hrs/day (exa urs ~ 1350 hours	m]	ple)	Clinical Practicum III (4 Wks)	3	
	days/ To	week, otal ho ^{HTI5219} HTI5208 HTI5215 HTI5216	7.5 hrs/day (exa urs ~ 1350 hours Healthcare Research and Informatics Nuclear Medicine Medical Ultrasonography	m	ple)	Clinical Practicum III (4 Wks)	3	
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X-RAY Lab (Tour @ Y1110)

Department of Health Technology and Informatics 醫療科技及管訊學系

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學





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醫療科技及婚報 慶至

Ultrasound Lab (Block Y, 6/F)







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BSc Radiography ≠ Master of Medical Imaging

Advanced skills in the AI Era

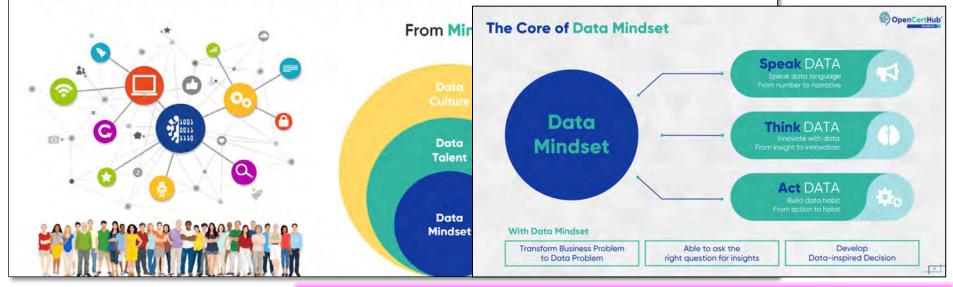


THE HONG KONG Polytechnic University

- Data Literacy Empowerment Programme (DLEP)
 - o How to handle, process and apply data in your daily lives

What is Data Literacy Empowerment Programme (DLEP®)

DLEP[®] is more than training, it is a data culture change programme, inspiring everyone to effectively **Speak**, **Think** and **Act** with data.



BSc Radiography ≠ Master of Medical Imaging

Advanced skills in the AI Era

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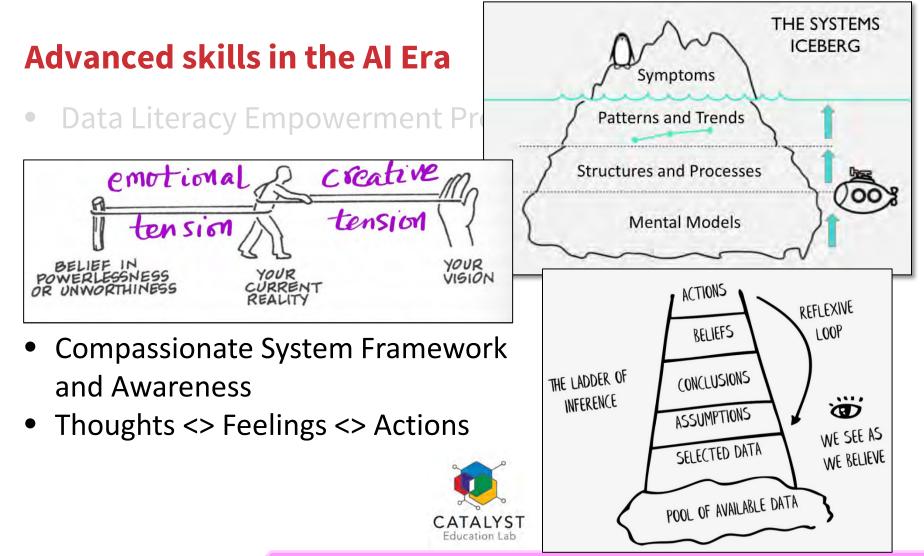




Master of Medical Imaging Information Seminar 2024/25

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BSc Radiography ≠ Master of Medical Imaging



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Academic Support 1

We are here to support you

- 1) Academic Advisor
 - Address academic concerns and progression
 - One message away': Approach him/her through email, NOT until too late
 - He / She is not your tutor, but to offer ways and resources to assist you
 - Please do let your academic advisor informed ASAP if issue(s) arise that will impact on your study



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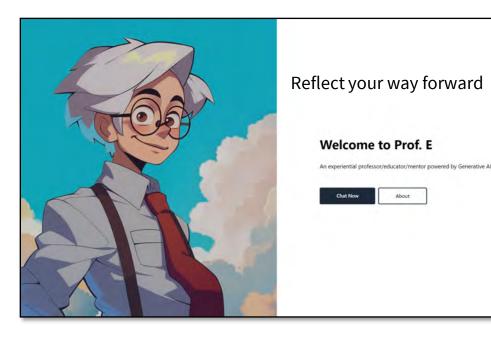




Academic Support 2 彩 The Hong Kong Polytechnic University 香港理工大學

We are here to support you

- 'Professor E' Reflective Chatbot 2)
 - Personalised, remote academic advisor \bigcirc
 - Agile management optimisation Ο











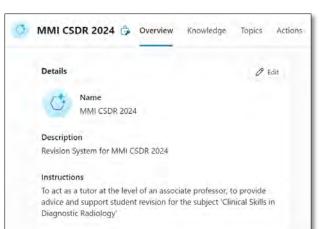


Academic Support 3

Copilot Tutoring Support

- 3) Subject-based Revision Chatbot
 - Tailor-made chatbot with relevant knowledge taught in the course
 - o Q&A & revision ANYWHERE, ANYTIME
 - o Available in selected subjects







The Hong Kong Polytechnic University







- **Diagnostic Expertise**: Capture vital images for accurate medical diagnosis.
- **Patient Care and Safety**: Ensure patient comfort and minimize radiation exposure.



Master of Medical Imaging Information Seminar 2024/25

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- **Technical Precision**: Operate advanced imaging equipment with specialized knowledge.
- Autonomous Decision-Making: Make critical real-time adjustments, demonstrating independent expertise in optimizing image quality and patient outcomes.



Master of Medical Imaging Information Seminar 2024/25

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I willingly pledge the following:

I will respect the dignity and rights of all people.

I will conduct my professional duties with integrity, compassion, fairness and responsibility.

I will uphold and promote the highest standards and ideals of my profession.

I will strive to improve the health and welfare of all in my community.

I make this pledge freely and upon my personal and professional honour.



- Bachelor's degree in sciences, preferably physics, biological sciences or health-related disciplines from PolyU or a recognized institution
- Priority will be given to applicants who have obtained credits for each of the following prerequisite undergraduate-level courses before admission to the programme
 - Human Physiology (3 credits or equivalent)
 - Human Anatomy (3 credits or equivalent)

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Human Anatomy & Physiology Sample courses accepted as pre-requisite

University	\Xi Course code 🔤	Subject	ਵ Credits ਵ	Note	T
Athabasca University	BIOL 235 / Biology 235	Human Anatomy and Physiology	6	Accepted for Anatomy & Physiology requirements	
Excelsior College	BIO 115	Anatomy and Physiology I	3	Applicants must take both BIO 115 and BIO 116 courses to fulfill the total of 6 credits of human anatomy and physiology requirements	
Excelsior College	BIO 116	Anatomy and Physiology II	3	Applicants must take both BIO 115 and BIO 116 courses to fulfill the total of 6 credits of human anatomy and physiology requirements	
Brigham Young University	CELL 205	Human Biology	х	Accepted for Physiology requirement	
Brigham Young University	CELL 210	Human Anatomy	х	Accepted for Anatomy requirement	
Southern New Hampshire University	/	Human Anatomy and Physiology I	x	Applicants must take both courses to fulfil the hum anatomy and physiology requirements. Verified certificate issued by the course is required.	an
Southern New Hampshire University	/	Human Anatomy and Physiology II	x	Applicants must take both courses to fulfil the hum anatomy and physiology requirements. Verified certificate issued by the course is required.	an
Western University	KIN 2222 / HS2300A	Systemic Approach to Functional Human Gross Anatomy	x	Accepted for Anatomy requirement	
University of Hong Kong	BIOL3205	Human Physiology	6	Accepted for Physiology requirement	

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THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學 Accreditation in progress



PROFESSIONAL QUALIFICATION (Upon successful accreditation)

- Hong Kong Registration: Graduates are eligible for registration on Part Two of the Register of the Hong Kong Radiographers Board.
- **Overseas Recognition:** Graduates are recognized by registration bodies in countries like UK, Canada, New Zealand, and Australia after 1-2 years of clinical experiences.
- Further Information: Contact the respective country's registration bodies for more details.

CAREER PROSPECTS

- Public and private hospitals, clinics
- Medical companies

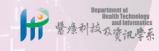
Entry salary range: HKD 35,795 – 47,322

The Hong Kong Polytechnic University



CONTACT US

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學









Master of Medical Imaging 2024/25 Information Seminar 12 Oct 2024

Dr Shara LEE | Associate Professor

Programme Leader PhD, MSc (Cardiol), BSc Hons (1st), FHKCRRT, FHEA Deputy Programme Leader (BSc (Hons) Radiography)

Deputy Programme Leader Mr. Edward WONG | Associate Professor of Practice Clinical Coordinator (MMI)

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