

International

Academic Requirement:

- i) Completed 12 years of Primary and High School Education and
- ii) Obtained High School Certificate (eg. A-Level, HSC, SMU & Matayom Suksa 6 (Thailand), International Baccalaureate etc.) OR
- iii) Diploma in the related field

English Requirement:

- i) IELTS minimum Band 5.0 or
- ii) TOEFL IBT minimum score of 40 or
- iii) TOEFL Essentials Online minimum score of 7.5 or
- iv) Cambridge English: Advanced (CAE) minimum score of 154 or
- v) Cambridge English: Proficiency (CPE) minimum score of 154 or
- vi) Cambridge English: Linguaskill Online minimum score of 154 or
- vii) PTE Academic / PTE Academic (Online) minimum score of 47 or
- viii) Malaysian University English Test minimum Band 3.5 or
- ix) ELS Certified Intensive English Programme Level (CIEP Level) minimum score of 107 or
- x) Candidates from countries where English is the official language or
- xi) Candidate from an institution in which the medium instruction is English; and
- xii) Passed with Credit in Intensive Preparatory Bahasa Malaysia Programme (for candidates pursuing programmes conducted in the National Language) <http://www.ppbit.usm.my/index.php/program/language-courses/malay-language>
You are recommended to enrol in USM Intensive English Programme as preparation course before IELTS examination. For more information, kindly visit : <https://ppbit.usm.my/index.php/program/intensive-english>

University Requirement: Passed the USM Interview

All applications can only be made through online via UPU online (STPM/and its equivalent) upu.mohe.gov.my or pohon.usm.my (International/USM+1)

CAREER PROSPECTS

The Medical Radiation programme produces graduates who will provide support and assistance in the area of health sciences. Students are highly encouraged to choose the medical radiation programme as a career because with the qualification in medical radiation science disciplines they will be employed in many areas, graduates may pursue a career with either the government or private sector as

- Medical Physicist (radiotherapy, nuclear medicine or radiology) in hospital
- Radiation Protection Officer (RPO) in hospitals or industries
- Technical Executive (radiation instruments/radioactive sources) or Quality Assurance Officer or Executive Engineer or Medical Instrument Sale Specialist at private companies based on medical radiation instruments
- Science Officer in research centres, institution of higher education and hospitals
- Research Officer in research institution and institution of higher education
- Academic Staff Trainee at public/private university for specialisation in the field of radiology, nuclear medicine, radiotherapy, or radiation protection
- Lecturer/Tutor at government or private educational institutions

FOR MORE INFORMATION PLEASE CONTACT

Academic Office
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health.usm.my | upu.mohe.gov.my
admission.usm.my | pohon.usm.my



SCHOOL OF HEALTH SCIENCES
UNIVERSITI SAINS MALAYSIA

BACHELOR IN MEDICAL RADIATION WITH HONOURS



INTRODUCTION

Medical Radiation Programme

The Bachelor of Health Science (Honours) (Medical Radiation) @ Bachelor in Medical Radiation (Honours) (for enrollment from Academic Session 2021/2022 onwards) is a 4-year (8 semesters) full time academic programme which has been offered since academic session 2001/2002 to students with qualification of A-level, STPM, matriculation, diploma in radiography or equivalent. The government of Malaysia has accredited this programme since 2004.

This programme provides theoretical and practical training experiences, which will allow students to understand, able to explain and utilise ionising and non-ionising radiation in the diagnosis and treatment of patients. The offering of this programme is expected to assist in fulfilling the national requirements for trained personnel in the medical radiation science disciplines. This programme opens up career opportunities in the field of diagnostic radiology, nuclear medicine, radiotherapy and radiation protection which require knowledge and skills in these areas in order to ensure the safety of the graduates, medical and health professionals, patients and members of the general public.

THE AIMS OF THE PROGRAMME

In line with our School's mission, we aim to

- Produce intellectual and professional medical radiation graduates.
- Produce medical radiation graduates who possess high ethical standards and high responsibility.
- Apply medical radiation knowledge for sustainability development and social well-being.



CURRICULUM COMPONENTS

Core courses	Elective Courses
111	10
University Courses	Total Credit Units
15	136

CORE COURSES

- Fundamental of Health Informatics
- Psychology and Behavioural Science
- Human Anatomy and Physiology
- Introduction to Medical Radiation
- Medical Radiation Physics I
- Mathematics of Radiation Science I
- Mathematics of Radiation Science II
- Basic Science of Nuclear Medicine
- Medical Radiation Physics II
- Radiation Protection and Safety I
- Basis of Radiation Dosimetry
- Diagnostic Radiology Imaging
- Nuclear Medicine Imaging
- Basic Sciences in Diagnostic Radiology
- Ethics and Law for Healthcare Professionals
- Biostatistics
- Research Methodology
- Radiation Protection and Safety II
- Principles of Radiotherapy
- Brachytherapy
- Diagnostic Radiology Imaging Techniques
- Quality Assurance in Diagnostic Radiology
- Nuclear Medicine Imaging Techniques
- Quality Assurance in Nuclear Medicine and Radiotherapy
- Radiotherapy Techniques
- Research Project
- Professional Training
- Radiotherapy Treatment Planning Techniques
- Dose Calculations and Treatment Planning in Radiotherapy

ADMISSION

Local

a) KPM Matriculation/Foundation (UM, UKM, UITM)

- Passed SPM or its equivalence, **AND**
- Possessed a pass in Matriculation / Foundation with CGPA not less than 3.00 and
- Obtained a minimum grade of C+ (CGPA 2.33) in any two subjects (Biology, Physics, Chemistry, Mathematics) **AND**
- Passed MUET with at least band 3
Excelled in interview assessment.

b) STPM

- Passed SPM or its equivalence, and
- Possessed a pass in STPM with CGPA not less than 3.00, **AND**
- Obtained a minimum grade of C+ (CGPA 2.33) in any two subjects (Biology, Physics, Chemistry, Mathematics T), **AND**
- Passed MUET with at least band 3
Excelled in interview assessment.

c) Diploma and its equivalent

- Diploma in a related field with at least a CGPA of 3.00 **OR**
- Passed A-Level with a minimum score of 10 and obtained at least Grade C in any two (2) of the following subjects: Biology/Chemistry/Physics/Mathematics **OR**
- Passed International Baccalaureate (IB) with a minimum score of 24 and at least a score of 4 at the High Level (HL) level in any two (2) of the following subjects: Biology/Chemistry/Physics/Mathematics **OR**
- Passed AUSMAT/SAM with obtain a minimum aggregate of 45 and obtain at least Grade C in any two (2) of the following subjects:
- Biology/Chemistry/Physics/Mathematics **OR**
Other qualifications recognized as equivalent and certified by the USM Senate **AND**
- Obtained least Level 3 (Band 3) in MUET or equivalent.
Excelled in interview assessment.