

# BACHELOR IN MEDICAL IMAGING & RADIOTHERAPY (HONS)

KPT/JPS(R/725/6/0055) | (A9993) 09/19



## PROGRAMME INTRODUCTION

This programme seeks to provide students with the skills to facilitate the operations and management of medical imaging devices such as Computed Tomography (X-rays), ultrasound and magnetic resonance imaging (MRI) machines to create diagnostic images for analysis and interpretation.

## CAREER PROSPECT

- Radiographer
- Radiation Therapist
- Scientific Officer
- Radiation Protection Officer
- Application Specialist
- Clinical Instructor

## DURATION OF STUDY

- 4 years (8 semesters)

## MODE OF STUDY

- Full Time

## INTAKE

- January, April & August

## ENTRY REQUIREMENTS

- Pass Matriculation / Pre-University/STPM programme or equivalent qualification with minimum GPA 2.33 in TWO of the following subjects:
  - Biology
  - Physics/Mathematics
  - Chemistry
- A-Level programme or equivalent qualification with minimum Grade D in TWO of the following subjects:
  - Biology
  - Physics/Mathematics
  - Chemistry
- Recognised Diploma with minimum CGPA of 2.75 in related field; OR
- Recognised Diploma with CGPA below than 2.75 and a minimum working experience of 3 years (36 months) in related field AND
- Obtained MUET Band 3 or IELTS (5.5)/TOEFL (550)  
English proficiency for foreign students: Candidate should obtain IELTS (5.5)/TOEFL (550) paper-based or equivalent

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## PROGRAMME STRUCTURE

| No                        | Course                                | Credit Hours | No                        | Course                                 | Credit Hours |
|---------------------------|---------------------------------------|--------------|---------------------------|----------------------------------------|--------------|
| 1                         | General Physics                       | 3            | 1                         | Anatomy & Physiology II                | 3            |
| 2                         | Anatomy & Physiology I                | 3            | 2                         | Basic Pathology                        | 2            |
| 3                         | Behavioral Science                    | 2            | 3                         | Radiation Safety                       | 2            |
| 4                         | Radiation Physics                     | 3            | 4                         | Radiographic Instrumentation           | 3            |
| 5                         | General Pharmacology                  | 2            | 5                         | Radiotherapy Instrumentation           | 3            |
| 6                         | Human Radiation Biology               | 2            | 6                         | Computing and Medical Informatics      | 2            |
| 7                         | Professional Ethics and Patient Care  | 2            | 7                         | Tamadun Islam dan Tamadun Asia         | 2            |
| 8                         | English for Academic Enrichment       | 3            | 8                         | Hubungan Etnik                         | 2            |
| <b>TOTAL (SEMESTER 1)</b> |                                       | <b>20</b>    | <b>TOTAL (SEMESTER 2)</b> |                                        | <b>19</b>    |
| 1                         | Systemic Pathology                    | 2            | 1                         | Radiographic Anatomy and Critique      | 3            |
| 2                         | Conventional Imaging Process          | 2            | 2                         | Radiographic Technique II              | 3            |
| 3                         | Radiographic Technique I              | 3            | 3                         | Oncology II                            | 2            |
| 4                         | Oncology I                            | 2            | 4                         | Radiotherapy Technique I               | 3            |
| 5                         | Radiotherapy Treatment Planning       | 3            | 5                         | Radiotherapy Clinical Practice I       | 2            |
| 6                         | Sectional Anatomy                     | 3            | 6                         | Medical Imaging Clinical Practice I    | 2            |
| 7                         | Malaysia Government and Public Policy | 2            | 7                         | Leadership and Development             | 3            |
| <b>TOTAL (SEMESTER 3)</b> |                                       | <b>17</b>    | 8                         | Specialized Radiographic Technique     | 2            |
|                           |                                       |              | <b>TOTAL (SEMESTER 4)</b> |                                        | <b>20</b>    |
| 1                         | Computed Tomography                   | 3            | 1                         | Biostatistics and Research Methodology | 3            |
| 2                         | Ultrasound                            | 3            | 2                         | Radionuclide Imaging                   | 3            |
| 3                         | Magnetic Resonance Imaging            | 3            | 3                         | Digital Imaging Process                | 2            |
| 4                         | Radiotherapy Technique II             | 3            | 4                         | Specialised Radiotherapy               | 2            |
| 5                         | Medical Imaging Clinical Practice II  | 3            | 5                         | Brachytherapy                          | 2            |
| 6                         | Radiotherapy Clinical Practice II     | 3            | 6                         | Medical Imaging Clinical Practice III  | 4            |
| 7                         | Amunited 2                            | 2            | 7                         | Radiotherapy Clinical Practice III     | 4            |
| <b>TOTAL (SEMESTER 5)</b> |                                       | <b>20</b>    | <b>TOTAL (SEMESTER 6)</b> |                                        | <b>20</b>    |
| 1                         | Healthcare Management                 | 2            | 1                         | Medical Imaging Clinical Practice V    | 7            |
| 2                         | Medical Imaging Clinical Practice IV  | 8            | 2                         | Radiotherapy Clinical Practice V       | 7            |
| 3                         | Radiotherapy Clinical Practice IV     | 8            | 3                         | Research Project                       | 4            |
| <b>TOTAL (SEMESTER 7)</b> |                                       | <b>18</b>    | <b>TOTAL (SEMESTER 8)</b> |                                        | <b>18</b>    |
|                           |                                       |              | <b>TOTAL CREDITS</b>      |                                        | <b>152</b>   |