

**中臺科技大學五專制日間部醫學影像暨放射科學科113學年度入學課程標準表**  
**Central Taiwan University of Science and Technology 5-Year Junior College Daytime Division Department of Medical Imaging and Radiological Sciences Curriculum Standards for the 113th Academic Year**

1130227系課程委員會會議討論通過  
 1130321院課程委員會會議審議通過  
 1130403校課程委員會會議審議通過

| 學年<br>Academic Year   | 科目<br>Course                                   | 學分數<br>Credits | 時數<br>Teaching<br>hours | 上學期<br>First Semester |                  | 下學期<br>Second Semester |                  | 備註<br>Remarks |
|---|--|----------------|-------------------------|-----------------------|------------------|------------------------|------------------|---------------|
|   |  |                |                         | 授課<br>Teaching        | 實習<br>Internship | 授課<br>Teaching         | 實習<br>Internship |               |
| <b>部定必修(68學分) Core Competencies(68 Credits)</b>               |  |                |                         |                       |                  |                        |                  |               |
| <b>語文 Language</b>  |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 國文(一)~(二) Chinese (I)~(II)                     | 8              | 8                       | 4                     |                  | 4                      |                  |               |
|   | 英文(一)~(六) English (I)~(VI)                     | 4              | 4                       | 2                     |                  | 2                      |                  |               |
| 第二學年2nd Academic Year   | 國文(三)~(六) Chinese (III)~(VI)                   | 4              | 4                       | 2                     |                  | 2                      |                  |               |
|   | 英文(一)~(六) English (I)~(VI)                     | 4              | 4                       | 2                     |                  | 2                      |                  |               |
|   | 本土語文 Native Language                           | 2              | 2                       | 2                     |                  |                        |                  |               |
| 第三學年3th Academic Year   | 國文(三)~(六) Chinese (III)~(VI)                   | 4              | 4                       | 2                     |                  | 2                      |                  |               |
|   | 英文(一)~(六) English (I)~(VI)                     | 4              | 4                       | 2                     |                  | 2                      |                  |               |
| <b>數學 Math</b>  |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 數學(一) Mathematics (I)                          | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 數學(二) Mathematics (II)                         | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>社會 Social Studies</b>                                      |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 公民與社會 Citizen and Society                      | 4              | 4                       | 2                     |                  | 2                      |                  |               |
| 第二學年2nd Academic Year   | 史地通論 General History and Geography             | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>自然科學 Natural Sciences</b>                                  |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 普通生物學 General Biology                          | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 普通物理學 General Physics                          | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>藝術 Art</b>   |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 美術 Art   | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 音樂 Music                                       | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>科技 Technology</b>  |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 資訊科技 Information Technology                    | 2              | 2                       |                       |                  | 2                      |                  | 電腦課程          |
| <b>綜合活動 Integrated Activities</b>                             |  |                |                         |                       |                  |                        |                  |               |
| 第二學年2nd Academic Year   | 法律學概論 Introduction to Law                      | 2              | 2                       | 2                     |                  |                        |                  |               |
| <b>國防 National Defense</b>                                    |  |                |                         |                       |                  |                        |                  |               |
| 第二學年2nd Academic Year   | 全民國防教育 All-out Defense Education               | 2              | 2                       | 2                     |                  |                        |                  |               |
| <b>健康與體育 Health and Physical Education</b>                    |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 健康與護理 Health and Care                          | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 體育(一)~(六) Physical Education (I)~(VI)          | 4              | 4                       | 2                     |                  | 2                      |                  |               |
| 第二學年2nd Academic Year   | 體育(一)~(六) Physical Education (I)~(VI)          | 4              | 4                       | 2                     |                  | 2                      |                  |               |
| 第三學年3th Academic Year   | 體育(一)~(六) Physical Education (I)~(VI)          | 4              | 4                       | 2                     |                  | 2                      |                  |               |
| <b>專業必修(174學分) Professional Required Courses(174 Credits)</b> |  |                |                         |                       |                  |                        |                  |               |
| <b>核心基礎(27學分) Core Foundations(27 Credits)</b>                |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 解剖學暨實驗(一) Anatomy and Laboratory (I)           | 2              | 3                       | 2                     | 1                |                        |                  |               |
|   | 解剖學暨實驗(二) Anatomy and Laboratory (II)          | 2              | 3                       |                       |                  | 2                      | 1                |               |
|   | 醫學影像原理 Principles of Medical Imaging           | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 普通化學 General Chemistry                         | 2              | 2                       |                       |                  | 2                      |                  |               |
| 第二學年2nd Academic Year   | 生理學暨實驗(一) Physiology and Laboratory (I)        | 2              | 3                       | 2                     | 1                |                        |                  |               |
|   | 原子物理(一) Atomic Physics (I)                     | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 微積分 Calculus                                   | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 生理學暨實驗(二) Physiology and Laboratory (II)       | 2              | 3                       |                       |                  | 2                      | 1                |               |
|   | 病理學暨實驗 Pathology and Laboratory                | 1              | 2                       |                       |                  | 1                      | 1                |               |
|   | 原子物理(二) Atomic Physics (II)                    | 2              | 2                       |                       |                  | 2                      |                  |               |
| 第三學年3th Academic Year   | 應用數學(一) Applied Mathematics (I)                | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 應用數學(二) Applied Mathematics (II)               | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>核心專業(79學分) Core Professional Courses(79 Credits)</b>       |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year   | 醫學英文 Medical English                           | 2              | 2                       |                       |                  | 2                      |                  |               |
| 第二學年2nd Academic Year   | 放射診斷技術學(一) Diagnostic Imaging (I)              | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 放射化學 Radiochemistry                            | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 放射診斷技術學實驗(一) Diagnostic Imaging Laboratory (I) | 2              | 3                       |                       | 3                |                        |                  |               |

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|--|--|----------------|-------------------------|-----------------------|------------------|------------------------|------------------|---------------|
|  |  |                |                         | 授課<br>Teaching        | 實習<br>Internship | 授課<br>Teaching         | 實習<br>Internship |               |
| 第一學年1st Academic Year  | 放射診斷技術學(二) Diagnostic Imaging (II)   | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射物理學(一) Radiation Physics (I)   | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射診斷技術學實驗(二) Diagnostic Imaging Laboratory (II)                                  | 2              | 3                       |                       |                  |                        | 3                |               |
| 第三學年3th Academic Year  | 放射物理學(二) Radiation Physics (II)  | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 電腦斷層技術學暨實驗 CT and Laboratory   | 2              | 3                       | 2                     | 1                |                        |                  |               |
|  | 放射診斷儀器學 Diagnostic Modalities  | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 醫學報告與傳達 Literature Review and Presentation                                       | 1              | 2                       | 2                     |                  |                        |                  | 學術倫理課程        |
|  | 放射切面解剖學 Radiographic Cross Sectional Anatomy                                     | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 超音波原理與儀器學 Principle of Sonography and Instruments                                | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 放射治療物理學 Radiation Therapy Physics  | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射生物學 Radiation Biology  | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 核醫藥物學 Radiopharmaceuticals   | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 醫學影像處理暨儲存系統 Medical Imaging Processing and Archiving System                      | 2              | 2                       |                       |                  | 2                      |                  |               |
| 第四學年4th Academic Year  | 超音波技術學 Sonography  | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 磁共振原理及儀器學 Principle of MRI and Instruments                                       | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 放射治療儀器學 Radiation Therapy Modalities   | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 放射治療技術學(一) Radiation Therapy Technology (I)                                      | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 輻射安全學 Radiation Safety   | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 核子醫學原理及儀器學 Principle and Instrument of Nuclear Medicine                          | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 輻射度量暨實驗 Radiation Measurement and Laboratory                                     | 1              | 2                       | 1                     | 1                |                        |                  |               |
|  | 磁共振造影技術學暨實驗 MRI and Laboratory   | 2              | 3                       |                       |                  | 2                      | 1                |               |
|  | 特殊攝影技術學暨實驗 Special Radiography and Laboratory                                    | 2              | 3                       |                       |                  | 2                      | 1                |               |
|  | 放射治療技術學(二) Radiation Therapy Technology (II)                                     | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射治療計畫 Treatment Planning of Radiation Therapy                                   | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 輻射法規實務 Radiation Protection Regulations Practice                                 | 1              | 1                       |                       |                  | 1                      |                  |               |
|  | 核子醫學技術學 Nuclear Medicine Technology  | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 臨床醫學英文 Medical English for Clinical Application                                  | 1              | 1                       |                       |                  | 1                      |                  |               |
| 第五學年5th Academic Year  | 放射診斷技術實習 Clinical Placement-Diagnostic Imaging                                   | 6              | 12                      |                       | 12               |                        |                  | 校外實習          |
|  | 放射治療技術實習 Clinical Placement-Radiotherapy   | 4              | 8                       |                       | 8                |                        |                  | 校外實習          |
|  | 核子醫學技術實習 Clinical Placement-Nuclear Medicine Technology                          | 4              | 8                       |                       | 8                |                        |                  | 校外實習          |
|  | 基礎醫學證照實務 License Review of Basic Medicine  | 1              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射物理證照實務 License Review of Radiation physics                                     | 1              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射器材證照實務 License Review of Radiological Instrument                               | 1              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射診斷證照實務 License Review of Diagnostic Imaging                                    | 1              | 2                       |                       |                  | 2                      |                  |               |
|  | 放射治療證照實務 License Review of Radiation Therapy Modalities                          | 1              | 2                       |                       |                  | 2                      |                  |               |
|  | 核子醫學證照實務 License Review of Nuclear Medicine                                      | 1              | 2                       |                       |                  | 2                      |                  |               |
| 放射證照實務 License Review of Radiological                        | 1  | 2              |                         |                       | 2                |                        |                  |               |
| <b>領域涵養(4學分) Domain-Specific Learning(4 Credits)</b>         |  |                |                         |                       |                  |                        |                  |               |
| 第四學年4th Academic Year  | 領域涵養   | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 領域涵養   | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>專業選修(43學分) Professional Electives Courses(43 Credits)</b> |  |                |                         |                       |                  |                        |                  |               |
| 第一學年1st Academic Year  | 醫學影像暨放射科學概論 Introduction of Medical Imaging and Radiological Sciences            | 2              | 2                       | 2                     |                  |                        |                  | 定編課程          |
|  | 普通物理學實驗 General Physics Laboratory   | 1              | 2                       |                       |                  |                        | 2                |               |
|  | 普通化學實驗 General Chemistry Laboratory  | 1              | 2                       |                       |                  |                        | 2                |               |
| 第二學年2nd Academic Year  | 微積分概論 Introduction to Calculus   | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 基本電學 Basic Electronics   | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 電子電路學 Electronic Circuits  | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 牙科攝影技術學暨實驗 Dental Radiography and Laboratory                                     | 1              | 2                       |                       |                  | 1                      | 1                |               |
| 第三學年3th Academic Year  | 癌生物學 Cancer Biology  | 2              | 2                       | 2                     |                  |                        |                  |               |
|  | 人工智慧於放射醫學應用 Application of Artificial Intelligence on Radiological Sciences (AI) | 2              | 2                       |                       |                  | 2                      |                  |               |
|  | 專題研究(一) Radiological Sciences Research (I)                                       | 1              | 2                       |                       |                  |                        | 2                |               |

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|---|---|----------------|-------------------------|-----------------------|------------------|------------------------|------------------|---------------|
|   |   |                |                         | 授課<br>Teaching        | 實習<br>Internship | 授課<br>Teaching         | 實習<br>Internship |               |
|   |   |                |                         |                       |                  |                        |                  |               |
|   | 超音波技術學實驗 Sonography Laboratory                              | 1              | 2                       |                       |                  |                        | 2                |               |
|   | 放射診斷見習 Diagnostic Imaging Practice                          | 1              | 2                       |                       |                  |                        | 2                | 校外見習2-3週      |
| 第四學年4th Academic Year                                 | 心臟超音波技術學暨實驗 Echocardiography and Laboratory                 | 2              | 3                       | 1                     | 2                |                        |                  |               |
|   | 乳房攝影暨骨質密度測量學實驗 Mammography and Bone Densitometry Laboratory | 1              | 2                       | 1                     | 1                |                        |                  |               |
|   | 生物統計學 Biostatistics   | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 進階基礎醫學(一) Advanced Basic Medicine (I)                       | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 休閒體育(一) Leisure Physical Education (I)                      | 2              | 2                       | 2                     |                  |                        |                  |               |
|   | 專題研究(二) Radiological Sciences Research (II)                 | 1              | 2                       |                       | 2                |                        |                  |               |
|   | 進階基礎醫學(二) Advanced Basic Medicine (II)                      | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 休閒體育(二) Leisure Physical Education (II)                     | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 醫學影像診斷學 Medical Imaging Diagnosis                           | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 心導管攝影技術學暨實驗 Cardiac Catheterization Angiography Laboratory  | 1              | 2                       |                       |                  | 1                      | 1                |               |
|   | 病患安全與醫學倫理 Patient Safety and Medical Ethics                 | 1              | 1                       |                       |                  | 1                      |                  | 職業倫理          |
| 放射治療技術學實驗 Radiation Therapy Laboratory                | 1   | 2              |                         |                       |                  | 2                      |                  |               |
| 第五學年5th Academic Year                                 | 放射診斷品質保證 Radiographic Quality Assurance                     | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 放射治療品質保證 Radiation Therapy Quality Assurance                | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 核子醫學品質保證 Nuclear Medicine Quality Assurance                 | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 放射免疫學 Radioimmunoassay                                      | 2              | 2                       |                       |                  | 2                      |                  |               |
|   | 磁振造影證照實務 License Review of MRI                              | 2              | 2                       |                       |                  | 2                      |                  |               |
| <b>第一學年小計(1)1st Academic Year Credits Subtotal(1)</b> |   | 50             | 54                      | 22                    | 1                | 26                     | 5                |               |
| <b>第二學年小計(2)2nd Academic Year Credits Subtotal(2)</b> |   | 50             | 56                      | 26                    | 4                | 20                     | 6                |               |
| <b>第三學年小計(3)3rd Academic Year Credits Subtotal(3)</b> |   | 44             | 49                      | 22                    | 1                | 20                     | 6                |               |
| <b>第四學年小計(4)4th Academic Year Credits Subtotal(4)</b> |   | 46             | 54                      | 21                    | 6                | 22                     | 5                |               |
| <b>第五學年小計(5)5th Academic Year Credits Subtotal(5)</b> |   | 31             | 52                      | 0                     | 28               | 24                     | 0                |               |
| <b>合計Total=(1)+(2)+(3)+(4)+(5)</b>                    |   | 221            | 265                     | 91                    | 40               | 112                    | 22               |               |

**畢業規定及其他相關說明：**

**Graduation Requirements and Other Relevant Instructions**

|   |  |
|---|--|
| 一 | 修業年限5年，最低畢業學分為220學分，必修174學分（含部定必修52學分、國防2學分、健康與體育14學分、專業必修106學分），博學涵養4學分，選修至少46學分。<br>The program duration is 5 years, with a minimum graduation requirement of 220 credits. This includes 174 required credits (comprising 52 Ministry of Education mandated credits, 2 national defense credits, 14 health and physical education credits, and 106 professional required credits), 4 Domain-specific Learning credits, and at least 46 elective credits.                   |
| 二 | 每學期修業學分數之限制：一、二、三年級20-32學分；四、五年級12-28學分。開放本科四、五年級生選修四年制大學一、二年級課程。<br>Credit limits per semester: For first, second, and third-year students, the limit is 20-32 credits; for fourth and fifth-year students, the limit is 12-28 credits. Fourth and fifth-year students are allowed to enroll in first and second-year courses of the undergraduate program.   |
| 三 | 畢業前需取得本校「資訊能力」畢業資格審定暨實施要點所列之資訊相關證照，始得畢業。<br>Before graduation, students must obtain the qualifications as stipulated in the 「Regulations for the Assessment and Implementation of Information Literacy Graduation Qualifications」 of our university, which includes obtaining the information-related certifications listed therein, in order to graduate.   |
| 四 | 有關英文能力畢業門檻之相關規定，依照「中臺科技大學大學部英（日）文畢業門檻實施要點」之規定辦理。<br>The regulations regarding the graduation requirements for English proficiency are implemented in accordance with the 「Implementation Guidelines for the English (Japanese) Graduation Thresholds for Undergraduate Programs at CTUST」.   |
| 五 | 有關「生活與服務」畢業門檻之相關規定，依照中臺科技大學「生活與服務」畢業門檻施行細則之規定辦理。<br>In accordance with the regulations outlined in the Implementation Rules for the Graduation Threshold of 'Life and Service' at the Central Taiwan University of Science and Technology, all requirements related to 'Life and Service' graduation threshold shall be adhered to.  |
| 六 | 「在本校就學期間必須取得心肺復甦術（CPR）畢業門檻之相關規定，依照「中臺科技大學健康科學院心肺復甦術（CPR）證照畢業門檻實施要點」之規定辦理」。<br>During the period of study, it is required to fulfill the graduation threshold for CPR in accordance with the 'Implementation Guidelines for Graduation Threshold of CPR Certification at the College of Health Science, Central Taiwan University of Science and Technology.  |
| 七 | 實習分發資格：分發前需已加選下列5門專業選修課程：<br>(1)超音波技術學暨實驗、(2)心臟超音波技術學暨實驗、(3)牙科攝影技術學暨實驗、(4)磁振造影技術學暨實驗、(5)病患安全與醫學倫理。<br>Before assignment, students must have already enrolled in the following five professional elective courses:<br>(1)Sonography and Laboratory; (2)Echocardiography and Laboratory; (3)Dental Radiography and Laboratory; (4)MRI and Laboratory; (5)Patient Safety and Medical Ethics.  |
| 八 | 定錨課程：畢業前需選修醫學影像暨放射科學概論（2學分/2小時）之課程。<br>Anchor Course: Before graduation, students must take the course 「Introduction to Department of Medical Imaging and Radiological Sciences」 (2 credits/2 hours).  |
| 九 | 學生於前2年需修習「班級永續經營課程(一)、(二)、(三)、(四)」，成績及格可認為「一般選修」學分。依規定學生需取得「班級永續經營課程(一)、(二)」之學分或取得「愛校服務認證」始得畢業。<br>Students need to take "Class Sustainable Management Course (I), (II), (III), and (IV)" in the first 2 years, and passing grades can be recognized as "General Elective" credits. According to regulations, students must obtain credits for Class Sustainable Management Course (I), and (II) or obtain the "Love School Service Certification" before they can graduate. |