

中臺科技大學大學部四年制日間部醫學影像暨放射科學系114學年度入學課程標準表

1140304系課程委員會會議討論通過

1140311院課程委員會會議審議通過

1140319校課程委員會會議審議通過

| 科目類別                                                        | 科目名稱                                                | 學分數                                                     | 時數  | 第一學年 |    |    |    | 第二學年 |    |    |    | 第三學年 |    |    |    | 第四學年 |    |    |            | 備註                 |             |
|-------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|-----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|------------|--------------------|-------------|
|                                                             |                                                     |                                                         |     | 上    |    | 下  |    | 上    |    | 下  |    | 上    |    | 下  |    | 上    |    | 下  |            |                    |             |
|                                                             |                                                     |                                                         |     | 授課   | 實習 | 授課 | 實習 | 授課   | 實習 | 授課 | 實習 | 授課   | 實習 | 授課 | 實習 | 授課   | 實習 | 授課 | 實習         |                    |             |
| 核心素養                                                        | 中文閱讀與表達 Chinese Reading and Expressing              | 2                                                       | 2   | 2    |    |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 大一英文(一) Freshman English (I)                        | 2                                                       | 2   | 2    |    |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 大一英文(二) Freshman English (II)                       | 2                                                       | 2   |      |    | 2  |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 資訊科技與AI應用 Information Technology and AI Application | 2                                                       | 2   | 2    |    |    |    |      |    |    |    |      |    |    |    |      |    |    |            | AI課程               |             |
|                                                             | 小計(1)                                               | 8                                                       | 8   | 6    | 0  | 2  | 0  | 0    | 0  | 0  | 0  | 0    | 0  | 0  | 0  | 0    | 0  | 0  | 0          |                    |             |
| 體育                                                          | 體育(一) Physical Education (I)                        | 1                                                       | 2   | 2    |    |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 體育(二) Physical Education (II)                       | 1                                                       | 2   |      |    | 2  |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 體育(三) Physical Education (III)                      | 0                                                       | 2   |      |    |    |    | 2    |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 小計(2)                                               | 2                                                       | 6   | 2    | 0  | 2  | 0  | 2    | 0  | 0  | 0  | 0    | 0  | 0  | 0  | 0    | 0  | 0  | 0          |                    |             |
| 領域涵養                                                        | 領域涵養 Domain-specific Learning                       | 16                                                      | 16  |      |    | 8  |    | 4    |    | 4  |    |      |    |    |    |      |    |    |            | 人文、自然、社會、博學至少各選修一門 |             |
|                                                             | 小計(3)                                               | 16                                                      | 16  | 0    | 0  | 8  | 0  | 4    | 0  | 4  | 0  | 0    | 0  | 0  | 0  | 0    | 0  | 0  | 0          |                    |             |
| 跨域學習                                                        | 跨域學習 Interdisciplinary Learning                     | 4                                                       | 4   |      |    |    |    | 2    |    | 2  |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             | 小計(4)                                               | 4                                                       | 4   | 0    | 0  | 0  | 0  | 2    | 0  | 2  | 0  | 0    | 0  | 0  | 0  | 0    | 0  | 0  | 0          |                    |             |
| 通識教育小計(一)=(1)+(2)+(3)+(4)                                   |                                                     | 30                                                      | 34  | 8    | 0  | 12 | 0  | 8    | 0  | 6  | 0  | 0    | 0  | 0  | 0  | 0    | 0  | 0  | 0          |                    |             |
| 專業必修                                                        | 核心基礎                                                | 微積分 Calculus                                            | 2   | 2    | 2  |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 普通物理學 Physics                                           | 2   | 2    | 2  |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 普通化學 General Chemistry                                  | 2   | 2    | 2  |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 原子物理 Atomic Physics                                     | 2   | 2    | 2  |    |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 解剖學暨實驗(一) Anatomy and Laboratory (I)                    | 2   | 3    | 2  | 1  |    |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 醫學影像原理 Principles of Medical Imaging                    | 2   | 2    |    |    | 2  |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 解剖學暨實驗(二) Anatomy and Laboratory (II)                   | 2   | 3    |    |    | 2  | 1    |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 應用數學(一) Applied Mathematics (I)                         | 2   | 2    |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 生理學暨實驗(一) Physiology and Laboratory (I)                 | 2   | 3    |    |    |    |      | 2  | 1  |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 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  |    |      |    |    |            |                    |             |
|                                                             |                                                     | 小計(5)                                                   | 21  | 26   | 10 | 1  | 4  | 1    | 4  | 1  | 2  | 1    | 1  | 1  | 0  | 0    | 0  | 0  | 0          | 0                  |             |
|                                                             | 核心專業                                                | 醫學英文 Medical English                                    | 2   | 2    |    |    | 2  |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射化學 Radiochemistry                                     | 2   | 2    |    |    | 2  |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射物理學(一) Radiation Physics (I)                          | 2   | 2    |    |    | 2  |      |    |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射物理學(二) Radiation Physics (II)                         | 2   | 2    |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射診斷技術學(一) Diagnostic Imaging (I)                       | 2   | 2    |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 超音波原理與儀器學 Principle of Sonography and Instruments       | 2   | 2    |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射切面解剖學 Radiographic Cross Sectional Anatomy            | 2   | 2    |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 輻射安全學 Radiation Safety                                  | 2   | 2    |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射診斷技術學實驗(一) Diagnostic Imaging Laboratory (I)          | 2   | 3    |    |    |    |      |    | 3  |    |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射診斷技術學(二) Diagnostic Imaging (II)                      | 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  |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 輻照法規實務 Radiation Protection Regulations Practice        | 1   | 1    |    |    |    |      |    |    | 1  |      |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射診斷技術學實驗(二) Diagnostic Imaging Laboratory (II)         | 2   | 3    |    |    |    |      |    |    |    | 3    |    |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 核子醫學原理及儀器學 Principle and Instrument of Nuclear Medicine | 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  |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射診斷儀器學 Diagnostic Modalities                           | 2   | 2    |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    |            |                    |             |
|                                                             |                                                     | 電腦斷層技術學暨實驗 CT and Laboratory                            | 2   | 3    |    |    |    |      |    |    |    |      | 2  | 1  |    |      |    |    |            |                    |             |
|                                                             |                                                     | 醫學報告與傳達 Literature Review and Presentation              | 1   | 2    |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    |            |                    | 學術倫理課程/跨域學習 |
|                                                             |                                                     | 輻射度量暨實驗 Radiation Measurement and Laboratory            | 1   | 2    |    |    |    |      |    |    |    |      | 1  | 1  |    |      |    |    |            |                    |             |
|                                                             |                                                     | 放射治療技術學(二) Radiation Therapy Technology (II)            | 2   | 2    |    |    |    |      |    |    |    |      |    |    | 2  |      |    |    |            |                    |             |
| 醫學影像處理暨儲存系統 Medical Imaging Processing and Archiving System | 2                                                   | 2                                                       |     |      |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    |            |                    |             |
| 核子醫學技術學 Nuclear Medicine Technology                         | 2                                                   | 2                                                       |     |      |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    |            |                    |             |
| 放射治療計畫 Treatment Planning of Radiation Therapy              | 2                                                   | 2                                                       |     |      |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    |            |                    |             |
| 特殊攝影技術學暨實驗 Special Radiography and Laboratory               | 2                                                   | 3                                                       |     |      |    |    |    |      |    |    |    |      | 2  | 1  |    |      |    |    |            |                    |             |
| 臨床醫學英文 Medical English for Clinical Application             | 1                                                   | 1                                                       |     |      |    |    |    |      |    |    |    |      | 1  |    |    |      |    |    |            |                    |             |
| 放射診斷技術實習 Clinical Placement-Diagnostic Imaging              | 6                                                   | 12                                                      |     |      |    |    |    |      |    |    |    |      |    |    |    | 12   |    |    | 校外實習，實習28週 |                    |             |
| 放射治療技術實習 Clinical Placement-Radiotherapy                    | 4                                                   | 8                                                       |     |      |    |    |    |      |    |    |    |      |    |    |    | 8    |    |    |            |                    |             |
| 核子醫學技術實習 Clinical Placement-Nuclear Medicine Technology     | 4                                                   | 8                                                       |     |      |    |    |    |      |    |    |    |      |    |    |    | 8    |    |    |            |                    |             |
| 放射證照實務 License Review of Radiological                       | 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  |            |                    |             |
| 小計(6)                                                       |                                                     | 71                                                      | 94  | 0    | 0  | 6  | 0  | 10   | 3  | 9  | 3  | 15   | 2  | 11 | 1  | 0    | 28 | 6  | 0          |                    |             |
| 專業必修小計(二)=(5)+(6)                                           |                                                     | 92                                                      | 120 | 10   | 1  | 10 | 1  | 14   | 4  | 11 | 4  | 16   | 3  | 11 | 1  | 0    | 28 | 6  | 0          |                    |             |
| 必修合計(A)=(一)+(二)                                             |                                                     | 122                                                     | 154 | 18   | 1  | 22 | 1  | 22   | 4  | 17 | 4  | 16   | 3  | 11 | 1  | 0    | 28 | 6  | 0          |                    |             |

中臺科技大學大學部四年制日間部醫學影像暨放射科學系114學年度入學課程標準表

1140304系課程委員會會議討論通過  
1140311院課程委員會會議審議通過  
1140319校課程委員會會議審議通過

| 科目類別             | 科目名稱                                                                                                                                                  | 學分數 | 時數  | 第一學年 |    |    |    | 第二學年 |    |    |    | 第三學年 |    |    |    | 第四學年 |    |    |           | 備註 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|-----------|----|
|                  |                                                                                                                                                       |     |     | 上    |    | 下  |    | 上    |    | 下  |    | 上    |    | 下  |    | 上    |    | 下  |           |    |
|                  |                                                                                                                                                       |     |     | 授課   | 實習 | 授課 | 實習 | 授課   | 實習 | 授課 | 實習 | 授課   | 實習 | 授課 | 實習 | 授課   | 實習 | 授課 | 實習        |    |
| 專業選修             | 醫學影像暨放射科學概論 Introduction of Medical Imaging and Radiological Sciences                                                                                 | 2   | 2   | 2    |    |    |    |      |    |    |    |      |    |    |    |      |    |    | 定錨課程/跨域學習 |    |
|                  | 生物統計學 Biostatistics                                                                                                                                   | 2   | 2   |      |    | 2  |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
|                  | 應用數學(二) Applied Mathematics (II)                                                                                                                      | 2   | 2   |      |    |    |    |      | 2  |    |    |      |    |    |    |      |    |    |           |    |
|                  | 超音波技術學暨實驗 Sonography and Laboratory                                                                                                                   | 2   | 3   |      |    |    |    |      | 1  | 2  |    |      |    |    |    |      |    |    | 內含「服務學習」  |    |
|                  | 放射診斷見習 Diagnostic Imaging Practice                                                                                                                    | 1   | 2   |      |    |    |    |      |    | 2  |    |      |    |    |    |      |    |    | 校外見習2~3週  |    |
|                  | 癌生物學 Cancer Biology                                                                                                                                   | 2   | 2   |      |    |    |    |      |    |    | 2  |      |    |    |    |      |    |    |           |    |
|                  | 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                                                                                                      | 1   | 2   |      |    |    |    |      |    |    | 1  | 1    |    |    |    |      |    |    |           |    |
|                  | 人工智慧於放射醫學應用 Application of Artificial Intelligence on Radiological Sciences (AI)                                                                      | 2   | 2   |      |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    | 跨域學習      |    |
|                  | 醫學影像診斷學 Medical image Diagnosis                                                                                                                       | 2   | 2   |      |    |    |    |      |    |    |    |      | 2  |    |    |      |    |    |           |    |
|                  | 心導管攝影技術學暨實驗 Cardiac Catherization Angiography and 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      |    |
|                  | 磁共振造影技術學暨實驗 MRI and Laboratory                                                                                                                        | 2   | 3   |      |    |    |    |      |    |    |    |      | 2  | 1  |    |      |    |    |           |    |
|                  | 牙科攝影技術學暨實驗 Dental Radiography and Laboratory                                                                                                          | 1   | 2   |      |    |    |    |      |    |    |    |      | 1  | 1  |    |      |    |    |           |    |
|                  | 放射治療技術學實驗 Radiation Therapy Laboratory                                                                                                                | 1   | 2   |      |    |    |    |      |    |    |    |      |    | 2  |    |      |    |    |           |    |
|                  | 基礎醫學證照實務 License Review of Basic Medical                                                                                                              | 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  |           |    |
|                  | 專題研究(一) Radiological Sciences Research (I)                                                                                                            | 1   | 2   |      |    |    |    |      |    | 2  |    |      |    |    |    |      |    |    |           |    |
|                  | 專題研究(二) Radiological Sciences Research (II)                                                                                                           | 1   | 2   |      |    |    |    |      |    |    |    | 2    |    |    |    |      |    |    |           |    |
|                  | 小計(7)                                                                                                                                                 |     | 30  | 44   | 2  | 0  | 2  | 0    | 0  | 0  | 3  | 6    | 4  | 5  | 9  | 5    | 0  | 0  | 8         | 0  |
| 選修合計(B)=小計(7)    |                                                                                                                                                       |     | 30  | 44   | 2  | 0  | 2  | 0    | 0  | 0  | 3  | 6    | 4  | 5  | 9  | 5    | 0  | 0  | 8         | 0  |
| 開課合計=必修(A)+選修(B) |                                                                                                                                                       |     | 152 | 198  | 20 | 1  | 24 | 1    | 22 | 4  | 20 | 10   | 20 | 8  | 20 | 6    | 0  | 28 | 14        | 0  |
| 畢業規定及其他相關說明：     |                                                                                                                                                       |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 一                | 最低畢業學分為128學分，必修122學分【含核心素養8學分、體育2學分、領域涵養16學分（人文、自然、社會、博學領域至少需選修1門課程）、跨域學習4學分、專業必修92學分】，選修至少6學分。                                                       |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 二                | 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。                                                                                                              |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 三                | 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。                                                                                                      |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 四                | 有關學術倫理課程規定：<br>(1)修習「醫學報告與傳達」課程之學生，需透過「臺灣學術倫理教育資源中心」網路教學平臺研習至少 6 小時課程並通過總測驗，於該網站下載修課證明後，提交任課老師列入成績考核。                                                 |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 五                | 畢業前須修習健康科學院院定共同課程:生物統計學「Biostatistics」2學分，需有修讀紀錄，始得畢業。                                                                                                |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 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』。                                                                            |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 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)磁共振造影技術學暨實驗、(5)病患安全與醫學倫理。                                                   |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 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。                                                                                                                   |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 九                | 銜接課程：大一新生於入學第一學期需修習銜接課程-基礎數學(1學分/18學時)                                                                                                                |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 十                | 外籍生於畢業前需修習「進階華語(一)」及「進階華語(二)」兩門課程。Foreign students need to take two courses,"Advanced Chinese (I)" and "Advanced Chinese (II)" before graduation.     |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |
| 十一               | 學生於前2年需修習「班級永續經營課程(一)、(二)、(三)、(四)」，「班級永續經營課程(一)、(二)」成績及格，可認列為「跨域學習」學分；「班級永續經營課程(三)、(四)」成績及格，可認列為「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。 |     |     |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |           |    |