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

學年	科目	學分數	時數 Teaching	上章 First Se	<b>上期</b> emester		事期 Semester	
Academic Year	Course	Credits	hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks
	部定必修(68學分) Con	e Competenci	es(68 Credits)					
	語文	Language						
第一學年1st Academic Year	國文 $(-)$ ~ $($ 二 $)$ Chinese $(I)$ ~ $(II)$	8	8	4		4		
第一字平Ist Academic Tear	英文(一)~(六) English (I)~(VI)	4	4	2		2		
	國文 (三)~(六) Chinese (III)~(VI)	4	4	2		2		
第二學年2nd Academic Year	英文(一)~(六) English (I)~(VI)	4	4	2		2		
	本土語文 Native Language	2	2	2				
第三學年3rd Academic Year	國文 (三)~(六) Chinese (III)~(VI)	4	4	2		2		
第三字平Jid Academic Tear	英文(一)~(六) English (I)~(VI)	4	4	2		2		
	數	學 Math						
第一學年1st Academic Year	數學(一) Mathematics (I)	2	2	2				
第一字平Ist Academic Teal	數學(二) Mathematics (II)	2	2			2		
	社會S	ocial Studies						
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		

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學年	科目	學分數	時數 Teaching		上學期 First Semester		下學期 Second Semester		
Academic Year	Course	Credits	hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks	
	自然科學	Natural Scienc	es						
第一學年1st Academic Year	普通生物學 General Biology	2	2	2					
第一字平1st Academic Teal	普通物理學 General Physics	2	2			2			
	藝術 Art								
第一學年1st Academic Year	美術 Art	2	2	2					
第一字平1st Academic Teal	音樂 Music	2	2			2			
	科技	Technology							
第一學年1st Academic Year	資訊科技與AI應用Information Technology and AI Application	2	2			2		AI課程	
	综合活動 In	tegrated Activ	ities						
第二學年2nd Academic Year	法律學概論 Introduction to Law	2	2	2					
	國防 Na	tional Defense							
第二學年2nd Academic Year	全民國防教育 All-out Defense Education	2	2	2					
	健康與體育 Health	and Physical	Education						
第一學年1st Academic Year	健康與護理 Health and Care	2	2	2					
另一字中15t Academic Teal	體育(一)~(六) Physical Education (I)~(VI)	4	4	2		2			

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學年	科目	學分數	時數		事期 emester	下學期 Second Semester		備註
Academic Year	Course	Credits	Teaching hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks
第二學年2nd Academic Year	體育(一)~(六) Physical Education (I)~(VI)	4	4	2		2		
第三學年3rd Academic Year	體育(一)∼(六) Physical Education (I)∼(VI)	4	4	2		2		
	專業必修(170學分) Professio	nal Required	Courses(170 C	redits)				
	核心基礎( <mark>23學分</mark> ) Co	re Foundation	s(23 Credits)					
	解剖學暨實驗(一) Anatomy and Laboratory (I)	2	3	2	1			
第一學年1st Academic Year	解剖學暨實驗(二) Anatomy and Laboratory (II)	2	3			2	1	
	普通化學 General Chemistry	2	2			2		
	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				
第二學年2nd Academic Year	微積分 Calculus	2	2			2		
第一字平2nd Academic Year	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	
	醫學影像原理 Principles of Medical Imaging	2	2			2		
塩ー線 た2J A J; V	應用數學(一) Applied Mathematics (I)	2	2	2				
第三學年3rd Academic Year	應用數學(二) Applied Mathematics (II)	2	2			2		

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學年	料目	學分數	時數 Teaching hours		<b>學期</b> emester	下學期 Second Semester		備註
Academic Year	Course	Credits		授課 Teaching	責習 Internship	授課 Teaching	實習 Internship	Remarks
	核心專業( <del>7</del> 9學分) Core P	rofessional Co	urses(79 Cred	its)				
第一學年1st Academic Year	醫學英文 Medical English	2	2			2		
第二學年2nd Academic Year	放射物理學(一) Radiation Physics (I)	2	2			2		
	放射診斷技術學(一) Diagnostic Imaging (I)	2	2	2				
	放射診斷技術學實驗(一) Diagnostic Imaging Laboratory (I)	2	3		3			
	放射化學 Radiochemistry	2	2	2				
	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				
	放射診斷技術學(二) Diagnostic Imaging (II)	2	2			2		
	放射診斷技術學實驗(二) Diagnostic Imaging Laboratory (II)	2	3				3	
	放射治療物理學 Radiation Therapy Physics	2	2			2		

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學年	斜目	學分數	時數 Teaching		上學期 First Semester		下學期 Second Semester	
Academic Year	Course	Credits	hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks
	放射生物學 Radiation Biology	2	2			2		
	核醫藥物學 Radiopharmaceuticals	2	2			2		
	醫學影像處理暨儲傳系統 Medical Imaging Processing and Archiving System	2	2			2		
	超音波技術學Sonography	2	2			2		
	磁振原理及儀器學 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			
第四學年4th Academic Year	磁振造影技術學 MRI	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		
	輻防法規實務 Radiation Protection Regulations Practice	1	1			1		

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學年	料目	學分數	時數 Teaching	上章 First Se	上期 emester	· ·	*	備註
Academic Year	Course	Credits	hours	授課 Teaching	實習 Internship	投課 Teaching	Internship	Remarks
	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		
	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		
第五學年5th Academic Year	放射物理證照實務 License Review of Radiation physics	1	2			2		
第五字平Jui Academic Tear	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		
	領域涵養(4學分) Doma	in-Specific Lea	rning(4 Credit	ts)				
第四學年4th Academic Year	領域涵養	2	2	2				
为日子平fin Academic Teal	領域涵養	2	2			2		

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學年	科目	學分數	時數		<b>學期</b> emester	下學期 Second Semester		備註 Remarks
Academic Year	Course	Credits	Teaching hours	授課 Teaching	責習 Internship	投課 Teaching	實習 Internship	Remarks
	專業選修(49學分) Professio	nal Electives	Courses(49 Cr	edits)				
	醫學影像暨放射科學概論 Introduction of Medical Imaging and Radiological Sciences	2	2	2				定鐑課程
第一學年1s tAcademic Year	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	
	微積分概論 Introduction to Calculus	2	2	2				
た - 留 た 2 . 1 A 1	基本電學 Basic Electronics	2	2	2				
第二學年2nd Academic Year	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	
	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		
第三學年3rd Academic Year	專題研究(一) Radiological Sciences Research (I)	1	2				2	
	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
	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			

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學年	科目	學分數	時數 Teaching	上學期 First Semester		下學期 Second Semester		備註 Pomorks
學年 Academic Year 第四學年4th Academic Year	Course	Credits	hours	授課 Teaching	責習 Internship	投課 Teaching	責習 Internship	Remarks
	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				
	醫學影像診斷學(一) Medical Imaging Diagnosis((I)	2	2	2				
第四學年4th Academic Year	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(二) Medical Imaging Diagnosis(II)	2	2			2		
	心導管攝影技術學暨實驗 Cardiac Catherization 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	
	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		
第五學年5th Academic Year	核子醫學品質保證 Nuclear Medicine Quality Assurance	2	2			2		
	放射免疫學 Radioimmunoassay	2	2			2		

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學年	科目 Course	學分數	時數 Teaching	上學期 First Semester		下學期 Second Semester		備註
Academic Year		Credits	hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks
	磁振造影證照實務 License Review of MRI	2	2			2		
	第一學年小計(1)1st Academic Year Credits Subtotal(1)	48	52	22	1	24	5	
	第二學年小計(2)2nd Academic Year CreditsS ubtotal(2)	61	69	38	5	20	6	
	第三學年小計(3)3rd Academic Year Credits Subtotal(3)	48	54	22	1	22	9	
	第四學年小計(4)4th Academic Year Credits Subtotal(4)	48	56	23	6	22	5	
	第五學年小計(5)5th Academic Year Credits Subtotal(5)	31	52	0	28	24	0	
	合計Total=(1)+(2)+(3)+(4)+(5)	236	283	105	41	112	25	

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學年	料目	學分數	時數		學期 Semester		學期 Semester	備註
Academic Year	Course	Credits	Teaching hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks
畢業規定及其他相關說明: Graduation Requirements and	Other Relevant Instructions			•			•	
-	修業年限5年,最低畢業學分為220學分,必修170學分(含部定必修52 program duration is 5 years, with a minimum graduation requirement of 220 credits, 14 health and physical education credits, and 100 professional requir	credits. This is	ncludes 170 req	uired credits (cor	nprising 52 Minis	try of Education r		
=	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 Credit limits per semester: For first, second, and third-year students, the limi allowed to enroll in first and second-year courses of the undergraduate progr	t is 20-32 cred					th and fifth-year st	tudents are
Ξ	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。 Before graduation, students must obtain the qualifications as stipulated in th university, which includes obtaining the information-related certifications lis	e 「Regulation	s for the Assess		nentation of Inforr	nation Literacy G	raduation Qualific	ations J of our
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(The regulations regarding the graduation requirements for English proficient Thresholds for Undergraduate Programs at CTUST.」				nplementation Gu	idelines for the Eı	nglish (Japanese) (	Graduation
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」 In accordance with the regulations outlined in the Implementation Rules for requirements related to 'Life and Service' graduation threshold shall be adher	the Graduation			at the Central Taiw	an University of	Science and Tech	nology, all
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 During the period of study, it is required to fulfill the graduation threshold fo College of Health Science, Central Taiwan University of Science and Techno	or CPR in accor					_	

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學年	料目	學分數	分數 時數 Tanahina	時數 Teaching	•	•		<b>學期</b> emester		<b>學期</b> Semester	備註	
Academic Year	Course	Credits	Credits	Credits	Credits	Credits	hours	授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	Remarks
+	實習分發資格:分發前需已加選下列5門專業選修課程: (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。 Before assignment, students must have already enrolled in the following five professional elective courses: (1)Sonography and Laboratory; (2)Echocardiography and Laboratory; (3)Dental Radiography and Laboratory; (4)MRI and Laboratory; (5)Patient Safety and Medical Ethics.											
	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 Anchor Course: Before graduation, students must take the course「Introduc		nent of Medical	l Imaging and Rac	liological Science	s」 (2 credits/2 he	ours).					
九	學生於前2年需修習「班級永續經營課程(一)、(二)、(三)、(四)」,成約校服務認證」始得畢業。 Students need to take "Class Sustainable Management Course (I), (II), (III), a regulations, students must obtain credits for Class Sustainable Management (	nd (IV) " in the	e first 2 years, a	and passing grades	s can be recognize	ed as "General Ele	ctive" credits. Acc					