電信工程研究所碩士班

113 學年度

	115 字千及
最低修業年限	一年
應修學分數	24 學分(不含論文研討及學位論文研究)
應修 (應選)課 程及符合畢業資 格之修課相關規 定	 24 学分(不含論又研討及学位論又研究) -、 畢業學分數: 24 學分(不含論文研討、學位論文研究) 二、應修課程: (一). 共同必修: 1. 論文研討:須依組別必修該組論文研討兩學期。 唯正式核可之交換學生(適用本校學士/碩士/博士),得選修「電信專題研究」,並得申請抵修或免修論文研討至多兩門。 2. 學位論文研究:必選修四學期。 提前畢業者不在此限,但其在學期間,每學期必選修「學位論文研究」。 (二). 專業必修:6 學分(附件一、必修科目一覽表),必須皆為本所開之課程;外籍生經由指導教授同意,得選修非本所所開之課程作為專業必修科目。 (三). 專業選修:18 學分 (四). 畢業學分至少須有 6 學分為本所開授之課程。 三. 至外所選修本所未開課程之規定:以研修電機資訊相關專業課程為限,其條研究所課程皆須由同學提出專案申請,經指導教授同意之。(附件二、至外所選修本所未開課程之申請表) 四、至外所選修本所已開課程之規定:因特殊原因,經本所開課老師同意及指導教授提出有至外所修課必要之證明,本所即可予以同意。(附件三、至外所選修本所已開課程之申請表) 五、校際選修課程僅限台大及清大非暑修課程。同時須經指導教授同意及所長審定後,方可將該課程之學分計入畢業學分。 六、學術研究倫理教育課程採網路教學方式實施,為必修教育課程。 (一). 學生於入學第一學期結束前,至「臺灣學術倫理教育資源中心」平台修習本課程,並通過課程總測驗成績違及格標準。 (二).未通過總測驗之學生,不得申請學但考試。 七、非上述規定之修課課程(如:暑修班或教育部核准之學分班等),本所不計入畢業學分。
其他相關規定	

Master's Degree of the Institute of Communications Engineering Academic Year 2024

Minimum Term of Study	One to four years	
Minimum Credits	24 (not including Graduate Seminar and Academic Dissertation Research).	
Curriculum and Regulations	 Required courses: 1. Commin required course: (1) Graduate Seminar: to be taken subject to students' groups in two semesters. Exchange students officially approved (applicable to our university's bachelor/master/PhD programs) who took the course " Graduate Research " are allowed exempting up to two courses from the Thesis Seminar. (2) Academic Dissertation Research: to be taken in four semesters Students of advanced graduation shall not subject to the restrictions. However, they should take Academic Dissertation Research in all the semesters during the study period. (3) Education on Academic and Research Ethics is required course 	

		(3).1 Students must register for the Course during their first semester of
		enrollment, and pass the exam on the New e-Campus Cyber Learning Platform.
		(3).2 Student without passing the exam can't apply degree examination
	2.	Major courses: 6 credits (see Appendix A: List of Major Courses), the courses must be offered by ICM
		*Group A: A student may select any two of the following seven subjects:
		(1) Random Processes
		(1) Nation 1 rocesses (2) Digital Communication
		(3) Queuing Theory
		(4) Computer Networks (I)
		(5) Digital Signal Processing
		(6) Algorithms
		(7) Detection and Estimation
		*Group B: A student may select any two of the following eleven subjects:
		(1) Physics Mathematics
		(2) Advanced Electromagnetics
		(3) Microwave Engineering (I)
		(4) Microwave Engineering (II)
		(5) Antenna Theory
		(6) Wave Propagation and Scattering
		(7) Semiconductor Memory (8) Ourseture Mark series
		(8) Quantum Mechanics
		(9) Semiconductor Device Physics (10) Numerical Semiconductor Device Modeling
		(10) Numerical Semiconductor Device Modeling (11) Computer - Aided Circuit Design and Analysis
	3.	Selective courses: 18 credits Conferment of degree
	4.	Students must complete all required courses, obtain the required graduation
		credits, submit a thesis, complete the "thesis originality check" and submit the
		results to the thesis committee members before they can apply for an oral defense.
		NYCU shall confer the master's degree upon students who have successfully
		passed the oral defense (see Appendix F for the qualification of members and
		organization of the oral defense committee). The qualification of oral defense
		committee members shall be determined by ICM.
	1.	Required credits for graduation: 24(not including Graduate Seminar and
		Academic Dissertation Research)
	2.	No credit obtained from courses of other sources (e.g. summer/winter schools or MOE approved aredit programs) will be considered
	3.	MOE-approved credit programs) will be considered. Students may take courses from the National Taiwan University and National
	5.	Students may take courses from the National Taiwan University and National Tsing Hua University, except for summer/winter programs. Students must apply
		for permission from the advisor and the director of institute before doing so;
		otherwise, no credit obtained from such courses will be considered.
	4.	Students who have taken the ICM master's program within the past three years
		and with a score at $B^{-}(70)$ or higher marks may apply for credit exemption within
		one week from the beginning of every semester by submitting the list of courses
Notes		and a transcript to ICM. The maximum credits of exemption should not exceed 12
		credits. (Students included in the Five-Year Bachelor's/Master's Program by
		ICM, NYCU shall not subject to the restrictions.) Students must submit the
		contents and the name of courses both offered by other departments, institutes or
		schools and desired to be exempted in the ICM to prove the similarity in an
		application for credit exemption (see Appendix I-1, I-2 for details). The
		application will be accepted after the approval of the related course teachers. Application for credit exemption with courses not available from ICM will be
		accepted after the evaluation done by the Course and Student Affairs Committee.
	5.	Students must select a thesis advisor in accordance with the rules and regulations
	5.	as stated in Appendices D, D-1 and D-2 and submit the Agreement of the Thesis
		Advisor (Appendix E) to ICM after completing the registration of the first
L	1	

	connector. A theorie advisor must be one of the ICM teachers. If a student desires to
	semester. A thesis advisor must be one of the ICM teachers. If a student desires to
	select a joint thesis advisor from other departments, such advisor must be an
	active full-time assistant professor or higher status of a college or university or an
	NYCU part-time professor, assistant professor or associate professor. If such
	advisor is a non-teacher expert, his/her qualification must be evaluated by the
	Academic and Teacher Evaluation Committee. ICM does not encourage students
	to select a joint advisor from other departments when teachers of ICM still have
	vacancies for students.
6.	Application date for replacing advisor to the date of the oral test need to be at
	least one year.

電信工程研究所碩士班(輔所)

113 學年度

應修學分數	13 學分(含論文研討一學期)
應修(應選)課程	本所所開課程任選四門即可,惟該生在原所已修過之課程若與本所所開課程相同性
	質,不得再修而將其算為輔所之應修學分數內。

Master's Degree of the Institute of Communications Engineering (Minor Program)

Academic Year 2024

Minimum Credits	13 credits (including 1 credit from the course of master's degree thesis discussion)
Curriculum and Regulations	A student can choose any four courses from the set of 3-credit courses offered by the institute. However, for a course offered by the institute, if a student had taken a course that is of the same nature from other department/institute, the student cannot take the course offered by the institute again nor use the credits of the course offered by the institute to fulfill the course requirements.

電信工程研究所博士班

113學年度

	113子十反
最低修業年限	二年
應修學分數(備註1)	18 學分(不含論文研討)
直升博士生應修學分	30學分(不含論文研討及學位論文研究)
數(備註1)	<u>50</u> 字分(个否确义研讨及字位确义研充)
	1.共同必修:修畢所屬分組之「論文研討」課程兩學期。逕博者可將碩士班修過
	之論文研討課程一並列入計算。
	唯正式核可之交换學生(適用本校學士/碩士/博士),得選修「電信專
	題研究」,並得申請抵修或免修論文研討至多兩門。
	2. 主修課程:修畢所屬分組專業課程至少 3 門課, 共 9 學分。
	3.副修課程:修畢所屬分組以外課程 2 門課(6學分),且滿足備註1之規定。副
	修課程之學域名稱或性質不得與主修課程相近。
	4.非逕博博士生在碩士班已修畢之課程,經由指導教授同意,重複選修得計算在
	畢業學分內,填寫重複選修申請書(附件二)。
	碩士班超修之學分抵免:五年內(含)曾修且成績達 B-(百分制70分)以上之
	超修學分,需在入學之第一學期開學後一星期內提出申請抵免。可抵免學分
	數上限為 9 學分。抵免申請方式如下:
	(1)修過之本所開授之相關課程檢附該課程及格成績單,直接向本所提出申請抵
	免(抵免學分申請表附件三)。
	(2)修過之課程如為外系所或外校所開,需繳交授課內容及原課本名稱並提出外
	校外系學分抵免申請書以及研究所科目學分證明(附件四-外校外系學分抵
應修(應選)課程及	免同意書,附件五-研究所科目學分證明),並繳交成績單,繳交至本所,
符合畢業資格之修課	經本所相關授課老師同意後通過。
相關規定	5.學士逕博生在入學前超修之學分抵免:五年內(含)曾修且成績達 B(百分制70
	分)以上之超修學分,需在入學之第一學期開學後一星期內提出申請抵免。可
	抵免學分數上限為 18 學分。抵免申請方式如下:
	(1)修過之本所開授之相關課程檢附該課程及格成績單,直接向本所提出申請抵
	免(抵免學分申請表附件三)。
	(2)修過之課程如為外系所或外校所開,需繳交授課內容及原課本名稱並提出外
	校外系學分抵免申請書以及研究所科目學分證明(附件四-外校外系學分抵
	免同意書,附件五-研究所科目學分證明),並繳交成績單,繳交至本所,
	經本所相關授課老師同意後通過。
	6.重考或重新申請入學,以及依照法令規定先修讀學分後考取修讀學位之博士
	生,得申請抵免學分,抵免學分數以應修畢業學分數二分之一為限(9 學
	分, 論文研討不得抵免)。
	7. 學術研究倫理教育課程採網路教學方式實施,為必修教育課程。
	(1) 學生於入學第一學期結束前,至「臺灣學術倫理教育資源中心」平台修習本
	課程,並通過課程總測驗成績達及格標準。
	(2) 未通過總測驗之學生,不得申請學位考試。
	8. 舉行學位考試之學生應完成「論文原創性比對」,供學位考試委員參考。

	 以上規定之應修學分數以研修電機、資訊、物理及數學相關之研究所課 程為限。
	2.至他所選修本所已開課程之規定:因特殊原因(如衝堂),應提出有必要至他所
	修課之證明,且須經本所開課老師及指導教授同意,方可將該課程計入畢業學 分。
	 五。 3. 至他校選修課程之規定:校際選修課程僅限非暑修課程。並須經指導教
備註	授及所長同意(如為本所已開課程,另須開課老師同意),方可將
	該課程計入畢業學分。
	4. 簽訂更換指導教授申請單之日期至口試日期計算須一年以上,若有未符合規定
	欲畢業者,須經由課程與學生事務委員會核可。
	5.非上述規定之修課課程(如:暑修班或教育部核准之學分班等),本所不計入畢
	業學分。

Doctoral Degree of the Institute of Communications Engineering Academic Year 2024

	Academic Year 2024		
Minimum Term			
of	Two years		
Study			
Minimum	19 gradite including examption of gradite not including thesis cominer		
Credits	18 credits, including exemption of credits, not including thesis seminar.		
Mini. Credits			
for Ph.D.	30 credits, not including thesis seminar and Academic Dissertation Research.		
degree directly			
Curriculum and Regulations	 Common required courses: Thesis Seminar should be taken for two semesters for all groups, and upgrade students may cancel the credits with that obtained in the master's program. Exchange students officially approved (applicable to our university's bachelor/master/PhD programs) who took the course "Graduate Research" are allowed exempting up to two courses from the Thesis Seminar. Courses for first major: no less than three professional courses (9 credits) for each group. Courses for second major: no less than two courses (6 credits) outside the group they select. The subject matter of courses of the first and second majors should not be similar to each other. Credits earned by upgrade students from courses completed in their master's program will be considered for credit towards their doctoral program requirements after their advisor's consent and completion of the <i>Application for Repeated Study</i> (see Appendix B). However, upgrade students may apply to the Course and Student Affairs Committee for credit exemption within one week from admission (see <i>Credit Exemption Application Form</i> in Appendix C). Students may apply for exemption of credits of courses with a score of B'(70) or higher taken within the past five years. Students must submit the <i>Permission for Credit Exemption of Courses Taken from Other Departments/Schools</i> form, the name and description of courses they have taken from other departments or schools, and a transcript (<i>Permission for Credit Exemption of Courses Taken from Other Department/Schools</i> in Appendix D). <i>Evidence for Course Credit</i> in Appendix E). The maximum number of credits to be exempted should not be more than 9 credits. Students who register for the doctoral program after a second examination or application, or who have taken courses before enrolling in the program, may apply for credit exemption of Academic and Research Ethics" is Required Course Students whor register for the Course durin		

	7. Before conducting the oral thesis defense, a student has to complete the "thesis
	originality check" and submit the results to the thesis committee members.
Note	 Students may take courses from other departments, but only courses of postgraduate programs offered by the departments of mechanical engineering, computer science, physics and mathematics will be considered. Taking courses offered by ICM from other departments: Students who take courses offered by ICM from other departments for special reasons (e.g. conflicts in schedule) must submit evidence demonstrating the need to do so and must apply for permission from the course instructor and their own advisor; otherwise, no credit obtained from such courses will be accepted (see application form in Appendix F). Taking courses offered by ICM from other schools: Students must apply for permission from their advisor, from the course teachers for ICM courses, and from the director of institute before doing so; otherwise, no credit obtained from such courses will be accepted. Application date for replacing advisor to the date of the oral test need to be at least one year. No credit obtained from other academic programs (e.g. summer/winter schools or
	Ministry of Education approved credit programs) will be accepted.

電信工程研究所博士班(輔所)

112	壆台	E度
114	7-	一尺

應修學分數	22 學分(含論文研討一學期)
應修(應選)課	本所所開課程任選七門即可,惟該生在原所已修過之課程若與本所所開課
程	程相同性質,不得再修而將其算為輔所之應修學分數內。

Doctoral Degree of the Institute of Communications Engineering (Minor Program) Academic Year 2023

Minimum	22 credits (including 1 credit from the course of master's degree thesis
Credits	discussion)
Curriculum	A student can choose any seven courses from the set of 3-credit courses offered
and	by the institute. However, for a course offered by the institute, if a student had
Regulations	taken a course that is of the same nature from other department/institute, the
	student cannot take the course offered by the institute again nor use the credits of
	the course offered by the institute to
	fulfill the course requirements.