電控工程研究所碩士班

112 學年度

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學分)
應修(應選)課程及符合畢業資格之修課相關規定	1.核心課程： 線性系統理論、數位訊號處理、影像處理、嵌入式作業系統、電力電子、感測與智慧系統、超大型積體電路系統設計、類比積體電路設計、功率積體電路設計、檢測與估計理論、隨機程序(隨機過程) 2.畢業學分除上列核心課程 6 學分外，須另外修本所課程至少 9 學分，共計修本所課程至少 15 學分。 3.碩一至碩二每學期必修論文研討及學位論文研究。

Master Degree of Institute of Electrical Control Engineering

Academic Year 112

Minimum length of schooling	1 year
Required credits	24 credits (Does not include Seminar and Academic Dissertation Research courses)
Course requirements and graduation relevant provisions	1. Core Curriculum： Linear Systems Theory, Digital Signal Processing, Image Processing, Embedded Operating System, Power Electronics, Sensing and Intelligent Systems, VLSI System Design and Applications, Analog IC Design, Power Integrated Circuits Design, Detection and Estimation, Stochastic Processes. 2. 15 credits must consist of 6 credits in Core Curriculum and the other courses offered by ICE Department. 3. Seminar and Academic Dissertation Research courses are required in each semester of first and second year.

電控工程研究所碩士班(輔所)

112 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	4 年內修習本所所開課程任選四門即可，惟該生已修過之課程若與本所所開課程同性質，不得再修而將其算為輔所應修學分數內。

Master Degree of Institute of Electrical Control Engineering (Minor Program)

Academic Year 112

Minimum Credits	13（including Seminar course in 1 semester）
Curriculum and Regulations	Every graduate student enrolled in this program must complete at least twelve (12) credit hours of technical courses (course code ICNXXXX) within four years. But the completed credit-hours of technical course (ICNXXXX) similar to the other completed course (not ICNXXXX) will be neglected.

電控工程研究所博士班

112 學年度

最低修業年限	二年
應修學分數	18 學分(不含論文研討及學位論文研究學分)
直升博士生 應修學分數	30 學分
應修(應選)課程及符合畢業資格之修課相關規定	1.核心課程： 線性系統理論、數位訊號處理、影像處理、嵌入式作業系統、電力電子、感測與智慧系統、超大型積體電路系統設計、類比積體電路設計、功率積體電路設計、檢測與估計理論、隨機程序(隨機過程)。 2.畢業學分包含上列核心課程 6 學分外，須另修本所開設課程至少 6 學分，共計修本所課程至少 12 學分。 3.博一至博三每學期必修論文研討 1 學分(共 6 學分)。 4.畢業前必須選修學位論文研究 6 學期(共 6 學分)且選修通過。

PhD Degree of Institute of Electrical Control Engineering

Academic Year 112

Minimum length of schooling	2 year
Required credits	18 credits (Does not include Seminar and Academic Dissertation Research courses)
Required credits of concurrent degree program – master and PhD	30 credits
Course Requirements and Graduation relevant provisions	1. Core curriculum：Linear System Theory, Digital Signal Processing, Image Processing , Embedded Operating Systems, Power Electronics, Sensing and Intelligent Systems, VLSI System Design and Applications, Analog IC Design, Power Integrated Circuits Design, Detection and Estimation, Stochastic Processes. 2. In addition to the core curriculums (6 credits) above, the graduation credits contain at least the other 6 credits from the curriculums in our institute. 3. In the first three years of PhD, student must earn 1 credit from the colloquium every semester (6 credits in total) 4. Before graduating, student must take the course of Academic Dissertation Research in six semesters and pass it (6 credits in total)