Department of Electrical Engineering
Curriculum Requirements for Enrollees in the Academic Year 110 (Fall 2021)

Program	Master's Program for the Day Division	
Group	None	
Class Type	Regular Class	
Special Program	None	
Curriculum Committee	Department Curriculum	
	College Curriculum	
	University Curriculum	110.06.07
	Academic Affairs	110.06.07
Graduation Credits /Study Duration	At least 30 credits required (plus 6 thesis credits), with a study period of 1－4 years; actual graduation credits based on the table below.	
Credit Load per Semester	The courses and credits required for each semester are determined by the respective departments (or institutes). However, during the first academic year, the total number of credits per semester must not be fewer than 6 credits and not exceed 18 credits.	

Required and Elective	Credits	Subject Category
Required	10 Credits	Major Requirements (including Thesis)
Elective	20 Credits	Major Elective

Other Regulations	
Remarks	"Computer Course" means computer access is required (computer and internet usage fee).

First Semester, First Year					Second Semester, First Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
Major Required	M05201	Seminar (1)	1/2		Major Required	M05202	Seminar(2)	1/2	
Major Elective	M05805	Engineering Project Management	3/3		Major Elective	M05803	Technical Paper Writing	3/3	
Major Elective	M05806	Applications of Control Engineering	3/3		Major Elective	M05804	Advanced programming	3/3	
Major Elective	M05807	Practice of Electro-optics Engineering	3/3		Major Elective	M05825	Digital Control	3/3	
Major Elective	M05821	Control System Design	3/3		Major Elective	M05826	Adaptive Control	3/3	
Major Elective	M05822	Electronic Circuits Design	3/3		Major Elective	M05827	Introduction to Power Electronics	3/3	
Major Elective	M05824	Power Generation	3/3		Major Elective	M05828	Electrical Energy Control and Management	3/3	
Major Elective	M05835	Power Quality Practice	3/3		Major Elective	M05836	Practice of Green energy and Energy Conservation	3/3	
Major Elective	M05836	Practice of Green energy and Energy Conservation	3/3		Major Elective	M05837	Coating Technology Practice	3/3	
Major Elective	M05839	Smart grid integration practice	3/3		Major Elective	M05838	Optoelectronic Devices Practices	3/3	
Major Elective	M05861	Optoelectronic materials	3/3		Major Elective	M05839	Smart grid integration practice	3/3	
Major Elective	M05862	Solid-State Physics	3/3		Major Elective	M05865	Nanomaterials	3/3	
Major Elective	M05863	Flat-Panel Display Engineering	3/3		Major Elective	M05866	Optoelectronic Electromagnetism	3/3	
Major Elective	M05864	Plasma Physics and Processes	3/3		Major Elective	M05867	Solar Energy Devices Physics	3/3	
Major Elective	M05890	Radio frequency (RF) circuit design	3/3						

First Semester, Second Year					Second Semester, Second Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
Major Required	M05205	Seminar (3)	1/2		Major Required	M05206	Seminar (4)	1/2	
Major Elective	M05808	Off-Campus Internship	3/3		Major Required	M05207	Thesis	6/6	
Major Elective	M05829	Optimal Control	3/3						
Major Elective	M05830	Nonlinear Control	3/3						
Major Elective	M05831	Control of Electric Machinery	3/3						
Major Elective	M05832	Power Deregulation	3/3						
Major Elective	M05833	Artificial Intelligence	3/3						
Major Elective	M05869	Electroceramics	3/3						
Major Elective	M05871	Optoelectronic Measurement	3/3						
Major Elective	M05872	Thin Film Diagnostics	3/3						