

Department of Electrical Engineering

Curriculum Requirements for Enrollees in the Academic Year 113 (Fall 2024)

Program	Master's Program for the Day Division								
Group	None								
Class Type	Regular Class								
Special Program	None								
Curriculum Committee	Department Curriculum		113.05.17						
	College Curriculum		113.05.23						
	University Curriculum		113.06.03						
	Academic Affairs		113.06.03						
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	M05821	Control System Design	3/3	
Major Elective	M05821	Control System Design	3/3		Major Elective	M05825	Digital Control	3/3	
Major Elective	M05822	Electronic Circuits Design	3/3		Major Elective	M05826	Adaptive Control	3/3	
Major Elective	M05824	Power Generation	3/3		Major Elective	M05827	Introduction to Power Electronics	3/3	
Major Elective	M05835	Power Quality Practice	3/3		Major Elective	M05828	Electrical Energy Control and Management	3/3	
Major Elective	M05861	Optoelectronic materials	3/3		Major Elective	M05836	Practice of Green energy and Energy Conservation	3/3	
Major Elective	M05862	Solid-State Physics	3/3		Major Elective	M05837	Coating Technology Practice	3/3	
Major Elective	M05863	Flat-Panel Display Engineering	3/3		Major Elective	M05838	Optoelectronic Devices Practices	3/3	
Major Elective	M05864	Plasma Physics and Processes	3/3		Major Elective	M05839	Smart grid integration practice	3/3	
Major Elective	M05890	Radio frequency (RF) circuit design	3/3		Major Elective	M05866	Optoelectronic Electromagnetism	3/3	
					Major Elective	M05867	Solar Energy Devices Physics	3/3	
					Major Elective	M05893	Artificial intelligence	3/3	

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