

Engineering
Master Of Science In Electrical Engineering

Study Program : Master
Study Plan Type : Thesis
Academic Year : 2022

The requirements to obtain a Master degree is :-

* The minimum requirements to get a Master degree in / Master Of Science In Electrical Engineering / is to pass 34 credit hours, according to this study plan.

* The credit hours are distributed to get a Master degree as follows :-

Number of credit hours	
Specialization Requirments	25.000
Compulsory	16.000
Elective	9.000
Thesis	9.000
Compulsory	9.000
Elective	0.000
Total :	34.000

Specialization Requirments Credit Hours : 25
Requirement type : Compulsory Credit Hours :16

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2204091701	Stochastic Processes	3.000	3.000	0.000		in class
2204091702	Advanced Linear System Theory and Applications	3.000	3.000	0.000		in class
2204091703	Introduction to Optimization Methods in Engineering	3.000	3.000	0.000		in class
2204091704	Smart and Micro grid technologies	3.000	3.000	0.000		in class
2204091705	Programming Simulation and modelling	3.000	3.000	0.000		in class
2204091706	Research Methods	1.000	0.000	2.000		blended learning

Specialization Requirments Credit Hours : 25
Requirement type : Elective Credit Hours :9

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2204081709	Big Data Analytics	3.000	3.000			in class
2204091715	Advanced Analysis of Electrical Machines and Drive Systems	3.000	3.000			in class
2204091716	Simulation of Communication Systems	3.000	3.000		2204091705	
2204091717	Advanced Analysis and Control of Power Systems	3.000	3.000	0.000		
2204091718	Error Control Coding	3.000	3.000			
2204091719	Power System Economics Markets & Asset Management	3.000	3.000			
2204091720	Advanced Topics in Wireless Communications	3.000	3.000		2204091701	
2204091721	Advanced Power Protection system	3.000	3.000			
2204091722	Applications of Machine Learning in	3.000	3.000		2204091705	
2204091723	Energy Resources and Environment	3.000	3.000			
2204091724	Communications and networking for Internet of Things	3.000	3.000			
2204091725	Solar Cells and Photovoltaic Energy Systems	3.000	3.000			in class
2204091726	Satellite Communications Networks and Applications	3.000	3.000			
2204091727	Electric Power Quality	3.000	3.000			
2204091728	Fourier Optics	3.000	3.000		2204091702	
2204091729	Design of Advanced Power Distribution Systems	3.000	3.000			
2204091730	Advanced Mixed-Mode Integrated Circuit Design	3.000	3.000			
2204091731	Advanced Grid Connected Power Electronics	3.000	3.000			
2204091732	CMOS Integrated Circuit Design	3.000	3.000			
2204091733	Power Semiconductor devices	3.000	3.000			
2204091734	Quantum Computing	3.000	3.000		2204091702	
2204091735	Energy Management and Audit	3.000	3.000			
2204091736	Modern Wireless Networking	3.000	3.000		2204091701	

Thesis Credit Hours : 9
Requirement type : Compulsory Credit Hours :9

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2204091799	thesis	9.000	0.000	0.000		

Thesis Credit Hours : 9
Requirement type : Elective Credit Hours :0

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Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2204093799	thesis	3.000	0.000			
2204096799	thesis	6.000	0.000	0.000		
2204099799	Thesis	0.000	0.000	0.000		