



TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES  
938 Aurora Blvd. Cubao, Quezon City

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001 =

**CURRICULUM LEADING TO THE DEGREE OF  
MASTER OF ENGINEERING WITH SPECIALIZATION IN ELECTRICAL ENGINEERING  
EFFECTIVE SECOND SEMESTER OF SY 2020 – 2021**

Catalog	No.	Descriptive Title	Hours/Week		Credit
			Lec	Lab	
<b>CORE COURSES (9 UNITS)</b>					
MERC	111	Engineering Analysis	3	0	3
MERC	112	Research Techniques with Statistical Methods	3	0	3
MERC	113	Advanced Optimization Theory and Methods	3	0	3
<b>SPECIALIZATION COURSES (9 UNITS)</b>					
MECC	141	Power System Operation, Control and Automation	3	0	3
MECC	142	Power System Protection and Arc Flash Analysis	3	0	3
MECC	143	Power System Dynamics and Stability	3	0	3
<b>ELECTIVE COURSES (6 UNITS)</b>					
MEEC	111	Management of Technology	3	0	3
MEEC	112	Special Topics	3	0	3
MEEC	113	Materials Engineering	3	0	3
MEEC	114	Network Security Systems Design	3	0	3
MEEC	116	Advanced Project Management	3	0	3
MEEC	142	Power Electronics	3	0	3
MEEC	141	Dynamics and Controls of Electric Machines	3	0	3
MEEC	143	Power Systems Planning and Reliability	3	0	3
MEEC	145	Smart Grid Technology	3	0	3
MEEC	146	Power Market Economics and Operation	3	0	3
MEEC	147	Advanced Instrumentation and Automation Control	3	0	3
MECC	144	Power Electronics, Converters and Rectifiers	3	0	3
MECC	174	Renewable Energy Resources	3	0	3
<b>CAPSTONE COURSES (6 UNITS)</b>					
MECP	200	Capstone Project 1 (Prerequisite: Comprehensive Exam)	3	0	3
MECP	201	Capstone Project 2	3	0	3
					<b>TOTAL = 30 UNITS</b>