



TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES
363 P. Casal St. Quiapo, Manila

**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =**

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

Catalog	No.	Descriptive Title	Hours/Week		Credit
			Lec	Lab	
CORE COURSES (9 UNITS)					
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
SPECIALIZATION COURSES (9 UNITS)					
MEEE	121	Power System Operation, Control and Automation	3	0	3
MEEE	122	Power System Fault Analysis, Switchgear and Protection System	3	0	3
MEEE	123	Power System Dynamics and Stability	3	0	3
ELECTIVE COURSES (6 UNITS)					
MCHE	443	Material Engineering	3	0	3
MEEC	111	Management of Technology	3	0	3
MEEC	218	Smart Grid Technology	3	0	3
MEME	123	Renewable Energy Resources	3	0	3
MEEC	116	Advanced Project Management	3	0	3
MEEE	124	Power Electronics	3	0	3
MEEC	114	Network Security Systems Design	3	0	3
MEEC	220	Advanced Instrumentation and Automation Control	3	0	3
MEEC	224	Power Market Economics and Operation	3	0	3
MEEC	143	Power Systems Planning and Reliability	3	0	3
MEEC	141	Dynamics and Controls of Electric Machines	3	0	3
MEEC	112	Special Topics	3	0	3
CAPSTONE COURSES (6 UNITS)					
MPCP	101	Capstone Project 1	3	0	3
MPCP	102	Capstone Project 2	3	0	3

TOTAL = 30 UNITS