



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 CHEMICAL 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)					
MCHE	213	Advanced Chemical Kinetics and Reaction Engineering	3	0	3
MCHE	223	Advanced Chemical Engineering Thermodynamics	3	0	3
MCHE	233	Advanced Transport Phenomena	3	0	3
ELECTIVE COURSES (6 UNITS)					
MCHE	413	Environment, Energy and Technology Management	3	0	3
MCHE	423	Nuclear Chemical Engineering	3	0	3
MCHE	433	Chemical Engineering Applications of Radioisotope	3	0	3
MCHE	443	Materials Engineering	3	0	3
MCHE	453	Current Topics in Chemical Engineering	3	0	3
MCHE	463	Special Problems in Chemical Engineering	3	0	3
MCHE	313	Environmental Biotechnology	3	0	3
MCHE	323	Advanced Biochemical Engineering	3	0	3
MCHE	333	Advanced Industrial Pollution Control	3	0	3
MCHE	343	Environmental Impact Assessment	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