



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
DOCTOR OF ENGINEERING (WITH SPECIALIZATION IN COMPUTER ENGINEERING)
EFFECTIVE SECOND SEMESTER OF SY 2020 – 2021**

Catalog	No.	Descriptive Title	Hours/Week		Credit
			Lec	Lab	
REMEDIAL 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 (24 UNITS)					
DOES	113	Advanced Computer Organization and Structure	3	0	3
DOES	133	Embedded Systems	3	0	3
DOES	163	Advanced Switching Theory and Logic Design	3	0	3
DOES	193	Artificial Intelligence	3	0	3
DOES	1A3	Machine Vision and Image Processing	3	0	3
DOES	1B3	Neural Networks	3	0	3
DOES	1C3	Bioinformatics	3	0	3
DOES	1E3	Data Communications Network Design	3	0	3
DOES	1F3	Distributed Systems	3	0	3
DOES	1H3	Systems Networking and Security	3	0	3
DOES	1K3	Digital Signal Processing	3	0	3
DOES	1L3	Advanced Robotics and Automation	3	0	3
DITCC	106	Industry Immersion	3	0	3
DITCC	107	Scientific Writing and Communication	3	0	3
DITCC	108	Special Topics	3	0	3
DISSERTATION COURSES (12 UNITS)					
DISWR	201	Dissertation 1 (Prerequisite: Comprehensive Exam)	3	0	3
DISWR	202	Dissertation 2	3	0	3
DISWR	203	Dissertation 3	3	0	3
DISWR	204	Dissertation 4	3	0	3

TOTAL = 36 (9) UNITS