Course List for international Doctor of Philosophy (Ph.D.) Degree Program (Offered by Department of Electrical Engineering), Chang Gung University

(For 2019 Calendar Year Admission)

General Requirement R R E E E	Course Title Seminar(1) Seminar(2) Seminar(3) Seminar(4) Ph.D. thesis English Technical Writing (1) (2) Scientific Writing Advanced English Writing	Credits	Year of Class 1st 1st 2nd 2nd	1st Semester 1	2nd Semester	Fields	RVE E E	Course Title Medical Physics	Credits	Year of Class	Ist Semest r
General Requirement R R E E E	Seminar(2) Seminar(3) Seminar(4) Ph.D. thesis English Technical Writing (1) (2) Scientific Writing	1 1 1 6	1st 2nd	1	1		-		3	-	_ <u>r</u> _
General Requirement R R R E E E	Seminar(3) Seminar(4) Ph.D. thesis English Technical Writing (1) (2) Scientific Writing	1 1 6	2nd	1	1		E			131	
General Requirement R R R E E E	Seminar(4) Ph.D. thesis English Technical Writing (1) (2) Scientific Writing	1 6	+	1				Design and Application of Mixed-Signal Integrated Circuits	3	İst	
General Requirement R R E E E	Ph.D. thesis English Technical Writing (1) (2) Scientific Writing	6	2nd			Biomedical Engineering and Circuit Systems	Е	Nano Circuit Design	3	1st	
R E E	English Technical Writing (1) (2) Scientific Writing				I		E	VLSI Computer-Aided Circuit Design	3	2nd	3.
E E E	Scientific Writing	2	1				E	VLSI Digital Signal Processing Design	3	1	3
E E E			1st	1	1		E	Biomedical Imaging System	3	2nd	3.
E E	Advanced English Writing	3	1st		3		E	Embedded Systems Programming	3	2nd	3
E		0	4th	0	0		E	Bionedical Information Processing	3	2nd	
E							Е	Medical Instrumentation	3	2nd	
	Number Theory	3.	1st	3		Power and Control	Е	Fuzzy Control	3	2nd 1st	3
	Optoelectronics	3	1st		3		Е	Artifical Neural Network	3	1	3_
Е	Communication Theory	3	1st		3		Е	Power System Stability and Control	3	lst	
E	Detection and Evaluation Theory	3	1st		3		Е	Solid State Energy Conversion	3	1st	
E	Queueing Theory	3	lst		3		Ē	Nonlinear Control	3	2nd	2
E	Advanced Digital Signal Processing	3	lst		3		E	Power Quality	3	2nd	
	Principle and Application of Computer Vision	3	1 st		3		Е	Renewable Energy Technologies	3	2nd	
Communications E	Advanced Error Control Cording and Applications	3	lst		3.		Е	Robust Control	3	2nd	
	Cryptology	3	2nd	3			Е	Advanced Topics of Electric Machines and Drives	3	2nd	
	Wireless Network	3	2nd	- 3			Е	Electrical Machine Control	3	2nd	
	Network Security	3	2nd		3		Е	Electromagnetic Transients Analysis	3	2nd	
	Spread Spectrum Communication	3	2nd		3		E	Adaptive Control	3	2nd	
E	Adaptive Filter Principle	3	2nd		3						3 3 3 3 3
E	Biomedical Electronics	3	1 st	3							
E	Medical Imaging	3	2nd	3					+		
E	SOC Systems Design Overview	3	1 st	3					-		
Е	Digital Silicon Intellectual Property Design	3	1st	3					-		
. Е	Biomedical Application of Chip Design and Experimental	3	1st		3				-	\vdash	
Е	Pattern Recognition	3	1 st		3				-	-	
	Advanced Computer Architecture	3	1 st		3				-		
E	Biomedical Signal Analysis	3	Ist		3				-	-	

Chair of Department:

Wen-piao Lin