MUST Curriculum Guide for Graduate Students for Academic Year 2018-2019, Institute of Electrical Engineering

		HIIOU		VI.		
	Year I (2018)					
		- 1	1st semester		2nd semester	
Course title		Cr.	ester hr.	Cr.	aster hr.	
		1	2	1	2	
С	*Research Methodology and Thesis Writing	- 		1	2	
Summation		1	2	2	4	
	Advanced Engineering Mathematics	3	3			
	Advanced Algorithms	3	3			
	Wireless Systems	3	3			
E	Advanced Electromagnetic Theory	3	3			
	Advanced power electronics	3	3		J	
	Coding Theory	3	3			
	Motor Servo Control	3	3			
	Microwave Engineering	3	3			
	Control & Operation of Power Systems	3	3			
	Advanced Digital Signal Processing	3	3			
	Linear System Theory	3	3		,	
	Linux Programming	3	3			
	CMOS Analog IC Analysis and Design	3	3			
	Control System Design, Simulation, and Practices	3	3			
	Internet Technology	3	3			
	Integrated Circuit Testing	3	3			
	Embedded Systems and Applications			3	3	
	Electric product design practice			3	3	
	Nonlinear Control			3	3	
	Mobile Communication			3	3	
	Stochastic Control			3	3	
	Neural Network	-		3	3	
	Computer-Application of Power System			3	3	
	Speech Signal Processing			3	3	
	The Design of Digital Integrated Circuits			3	3	
	Stochastic Process			3	3	
	Optimal Control			3	3	
	Microprocessor and Embedded System Interface			3	3	
	Database System Concepts and Developments			3	3	
	Web Programming			3	3	
	Electromagnetic Compatibility		Ì	3	3	
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Year 11 (2019)								
Course title		l st semester		2nd semester				
	Сощью нис		hr.	Cr.	hr.			
	※ Thesis	3	3	3	3			
С								
	Summation	3	3	3	3			
	Thesis Research and Discussion (I)	1	1					
	Robust Control	3	3					
	Wave Guided Theory	3	3					
E	Wave Propagation and Applications	3	3					
	Intelligent Antenna Theory	3	3					
	Computer Graphics	3 .	3					
	Artificial Intelligent	3	3					
	Mobile Network	3	3					
	Embedded System Programming	3	3					
	Linux Servers and Web Application	3	3					
	Control Integrated Circuit Design	3	3					
	High Frequency Circuit Design	3	3					
	Network Security	3	3					
	Data Mining	3	3					
	Integrated Circuits	3	3					
	Thesis Research and Discussion (II)			1	1			
	Variable-Structure Control			3	3			
	Design and Measurement of Electromagnetic Compatibility			3	3			
	Deregulation of Power Systems			3	3			
	Saving and Management of Power Energy			3	3			
	Nature Inspired Algorithms			3	3			
	Applications of Power Electronics			3	3			
	Optimization Algorithms			3	3			
	Advanced Computer Architecture			3	3			
	Advanced Operating Systems			3	3			
	Embedded System Device Driver Programming			3	3			
	Network Planning and Management			3	3			
	Product Research and Management			3	3			
	Power Electronic Control by FPGA			3	3			
	Robust Control System Design			3	3			
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Item	Cr.	hr.
★Required Professional Courses	9	12
Elective Professional Courses	21	21
Total	30	33

C/E = Compulsory / Elective
Cr./hr.=Credit/Hour

Remarks:

- 1.Minimum credits required for graduation are 30 credits (9 required credits and at least 21 elective credits). (Including the inter-departmental elective credits.)
- 2.No fewer than 15 professional elective credits are required with the exclusion of credits for inter-disciplinary programs.
- 3. The upper limit of credits which students can take for each semester is 16 credits. (Exclude six credits of Thesis)
- 4.Students shall take total 6 credits of "Thesis" course. (all of the 6 credits will be counted together after passing the defense qualification of thesis)
- 5.The elective courses are subject to change if necessary.