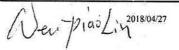
## Course List for international Master of Science (MS) Degree Program in Electrical Engineering Department, Chang Gung University

( For 2018 Calendar Year Admission), April 27th 2018

R/E	Course Title	Cre- dits	Year of Class	Ist Semes ter	2nd Semes ter	Fields	R/E	Course Title	Cre-	Year of Class	1st Semes	2nd Seme
R	Seminar (Research Project) (1)(2)	2	1st	1	1	Biomedical Engineering and Circuit Systems	E	Biomedical Microsystem Engineering*	3	lst	3	
R	Seminar (1)	1	1st	.1			Е	Optoelectronic experiments*	1	lst		1
R	Seminar (2)	1	İst		1		E	Advanced Computer Architecture	. 3	lst		3
R	Seminar (3)	1	2nd	1			E	Low-Power System Design*	3	Ist		3
R	Seminar (4)	1	2nd		1		E	Bio-photonics Techniques*	3	1st		3
R	Master Thesis	6	17				E	Embedded System and Experiment*	3	lst		3
E	Electronics Circuits Design*	3	1st	3			E	Pattern Recognition	3	1st		3
E	English Technical Writing	2	lst		2		E	Biomedical Chip Design and Application	3	lst		3
E	Advanced English Writing	4	2nd	2	2		E	Biomedical Signal Analysis	3	1st		3
Е	Practical Case Study*	3	Ist		3		E	Medical Physics	3.	1st		3
Е	Algorithms*	3	İst		3		E	Design and Application of Mixed-Signal Integrated Circuits	3.	lst		3
E	Digital Communications*	3	lst	3			E	Nano Circuit Design	3	Ist		3
E	Random Processes	3	lst	3:	ETHICALLIES		E	Design of Micro-Sensors and Sensing Circuit Systems*	3	lst	THE REAL PROPERTY.	3
E	Digital Signal Processing*	3	lst	3			E	Medical Imaging	3	2nd	3	
E	Optical Fiber Communications*	3	1st	3			E	VLSI Computer-Aided Design	3	2nd	3	
E	Digital Image Processing*	3	1st	3	co constr		E	VLSI Digital Signal Processing Design	3	2nd	3	T
E	Error-Control Coding*	3	lst	3			Е	Embedded System Programming	3	2nd	3	T
E	Number Theory	3	1st	3	1		E	Biomedical Imaging System	3	2nd	3	
E	Communication Theory	3	lst		3		E	Biophotonic Engineering and Experiments	3	2nd	3	1
E	Optical Fiber Communications Laboratory*	1	1 st		1				3	2nd		
E	Wireless Communication*	3	1st		3				3	2nd	1	1
E	Optoelectronics	3	. 1st		3	Power and Control	E	Power System Analysis*	3	lst	-3	1
E	Detection and Estimation Theory	3	lst		3				3	1st	3	1
Ε	Queuing Theory	3	1st		3				3	lst	3	
E	Advanced Digital Signal Processing	3	lst		3		-	<del></del>	3	İst	3	1
E	Principle and Application of Computer Vision	3	lst		3				3		1	1
E		3	lst		3		_	†			<del>                                     </del>	3
Е	Wireless Network	3	-	3						_	$\vdash$	3
E	Cryptography	3									1	1 3
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***********	Analog Integrated Circuits Design*	3	lst	3							-	1 3
	Introduction to Optoelectronics*	3	lst	3	_			Adaptive Control	3	2nd	-	+-3
	R R R R R E E E E E E E E E E E E E E E	R Seminar (1) R Seminar (2) R Seminar (2) R Seminar (3) R Seminar (4) R Master Thesis E Electronics Circuits Design* E English Technical Writing E Advanced English Writing E Practical Case Study* E Algorithms* E Digital Communications* E Digital Communications* E Random Processes E Digital Signal Processing* E Optical Fiber Communications* E Digital Image Processing* E Tror-Control Coding* E Number Theory E Communication Theory E Optical Fiber Communications* E Digital Signal Processing* E Wireless Communication E Wireless Communication E Detection and Estimation Theory C Queuing Theory E Advanced Digital Signal Processing E Principle and Application of Computer Vision E Advanced Error Control Cording and Applications E Wireless Network E Cryptography E Network Security E Spread Spectrum Communications E Adaptive Filter Theory E Digital Signal Processing* E Biomedical Electronics E VLSI System Design E Digital Signal Processing E Introduction to System-on-Chip Design E Digital Image Processing*	R         Seminar (1)         1           R         Seminar (2)         1           R         Seminar (3)         1           R         Seminar (3)         1           R         Seminar (4)         1           R         Seminar (4)         1           R         Seminar (3)         1           R         Seminar (4)         1           R         Seminar (4)         1           R         Seminar (4)         1           E         Electronics Circuits Design*         3           E         Electronics Circuits Design*         3           E         Advanced English Writing         4           E         Advanible Circuits Case Study*         3           E         Algorithms*         3           E         Digital Communications*         3           E         Digital Communications*         3           E         Digital Tiber Communications*         3           E         Digital Tiber Communications*         3           E         Communication Theory         3           E         Communication Theory         3           E         Optical Fiber Communication*         3	R         Seminar (1)         1         1st           R         Seminar (2)         1         1st           R         Seminar (3)         1         2nd           R         Seminar (3)         1         2nd           R         Seminar (3)         1         2nd           R         Seminar (4)         1         2nd           R         Master Thesis         6           E         English Technical Writing         2         1st           E         Advanced English Writing         4         2nd           E         Advanced English Writing         4         2nd           E         Adjorithms*         3         1st           E         Algorithms*         3         1st           E         Digital Communications*         3         1st           E         Digital Signal Processing*         3         1st           E         Optical Fiber Communications*         3         1st           E         Digital Image Processing*         3         1st           E         Number Theory         3         1st           E         Communication Theory         3         1st           E <td>  R   Seminar (Research Project) (1)(2)</td> <td>  R   Seminar (Research Project) (1) (2)   2   1st   1   1   1   1   1   1   1   1   1  </td> <td>  R   Seminar (Research Project) (1)(2):   2   1st   1   1   1   1   1   1   1   1   1  </td> <td>  R   Seminar (Research Project) (1)(2)</td> <td>  R   Seminar (Research Project) (I)(2)</td> <td>  R.   Seminar (Research Project) (1)(2)   2   1st   1   1   1   1   1   1   1   1   1  </td> <td>  R   Seminar (Research Project) (1)(2)</td> <td>  R   Seminar (19</td>	R   Seminar (Research Project) (1)(2)	R   Seminar (Research Project) (1) (2)   2   1st   1   1   1   1   1   1   1   1   1	R   Seminar (Research Project) (1)(2):   2   1st   1   1   1   1   1   1   1   1   1	R   Seminar (Research Project) (1)(2)	R   Seminar (Research Project) (I)(2)	R.   Seminar (Research Project) (1)(2)   2   1st   1   1   1   1   1   1   1   1   1	R   Seminar (Research Project) (1)(2)	R   Seminar (19

B. The credits of elective courses in the General Requirement can be considered as the credits for either in- or out- of the field of study.

Chair of Department:



<sup>6.</sup> Seminar (3) and (4) are rquired before graudation. If you graduate within 2 years, those two courses can be waived but minimum of 34 credits are still required for the graduation.

<sup>7.</sup> The professional courses (instructed in English) taken from other departments in the School of Engineering can be counted for required credits for graduation, but can not exceed 50% of the total required credits for graduation (excluding Master Thesis and Seminars). These taken courses have to be approved by your academic advisor and has to be approved by the Committee of graduate student affairs of the department to have these credits counted as the required credits for graduation. This policy is only applied for the international graudate students admitted from International Student Admission of CGU.