						year				year	0	1 201		year			4 th	year		Tugo Tot /
	Course	Credits	Hours	Fa			ring	Fa	ıll	Spr		Fa	all	Spi		Fa	all		ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
	Chinese Literature:																			
	Appreciation And	2	2	2																
	Creative Writing I																			
	Chinese Literature:																			
	Appreciation And	2	2			2														
	Creative Writing II																			
	Practical English 1	0	2	1	1															
	Practical English 2	0	2			1	1													
	Practical English 3	0	2					1	1											
	Practical English 4	0	2							1	1									
Core Required	English for Business	2	2									2	1							
Courses	Communication 1	2	3									2	1							1
	English for Business	2	2											2	1					1
	Communication 2	2	3											2	1					
	Practical English of	2	2													2	1			
	Professionals 1	2	3													2	1			
	Practical English of	2	3															2	1	
	Professionals 2	2	3															2	1	
	General Ed	12	12																	2
	Physical Education	0	10	_		_		2		2										
	(1)~(6)	0	12	2		2		2		2		2		2						
	Subtotal	24	48																	
	Calculus I	3	4	3	1															
	Physics I	3	3	3																
	Physics Laboratory I	1	3	1	2															Computer course
D C : 1	Concept of Computer	2	~	2	2													C .		
Professional	Science	3	5	3	2															Computer course
Required	Introduction to																			
Courses	Information	1	1	1																
	Technology																			
	Programming Design I	3	5			3	2													Computer course
	Calculus II	3	4			3	1													•

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					1 st y	year			2 nd	year	-6		3 rd	year			4 th	year		
Course		Credits	Hours	Fa		Spr		Fa			ring		all		ing		all	Spr		Note
D1 : 11		2	2	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Physics II		3	3			3														_
	aboratory II	1	3			1	2													Computer course
	Circuits I	3	3			3														
	gic Design	3	3			3														
	ning Design II		3					3												Computer course
Electronic	Circuits II	3	3					3												
Electronic		1	3					1	2											Computer course
Laborator	•	1	3					1												Computer course
Engineeri		3	3					3												
Mathemat																				
Electronic		3	3					3												
Electroma		3	3					3												
Engineeri		3	3							3										
Mathemat		3	3							3										
Electronic	s II	3	3							3										
Electronic	Circuits	3	4							3	1									Computer course
Laborator	y II	3	4							3	1									Computer course
	cessor Design	1	3							1	2									Computer course
and Labor	atory	1	3							1										Computer course
Signals an	d Systems	3	3									3								
Electronic	Circuits	1	3									1	2							Computer course
Laborator	y III	1	3									1								Computer course
Project Re	esearch I	3	3											3						
Project Re	esearch II	3	3													3				
Subtotal		63	82	14		16		13		10		4		3		3				
Total Required Course ((Electronic Engineering Dep		87																		

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					1 st y	year			2 nd	year			3 rd y	/ear				year		
Elective Course	es	Credits	Hours		all		ring	Fa		Spr		Fa		Spr			all		ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class		
	Digital System Design and Laboratory	3	3					3												Computer course (Program core course)
	MATLAB Programming	3	3					3												Computer course (Program core course)
	Probability and Statistics	3	3					3												
	Linear Algebra	3	3					3												
	Computer organization	3	3									3								
	Data Structure	3	3									3								Computer course
IC Chip and System	Introduction to VLSI Design	3	3									3								Computer course (Program core course)
	Electronic Circuit Design	3	3									3								
	Digital Signal Processing	3	3											3						
	Digital Image Processing	3	3											3						
	Analog IC Design	3	3											3						
	Linear Circuit Design	3	3											3						
	FPGA/CPLD Design	3	3											3						Computer course
	Control System	3	3													3				
	Embedded Systems	3	3															3		Computer course
Electronic and	Introduction to Solar Cells	3	3													3				
semiconductor device	Modern Physics	3	3							3										
device	Electromagnetics II	3	3							3										Program core course

			1150		year	ı an	Stude	2 nd .		111 <u>5</u> 11	1 201	3 rd v	700r			₁th .	year		rage 4 01 /
Elective Courses	Credits	Hours		all		ring	E	all	year Spr	ina	E	all		ing	E	all		ring	Note
Elective Courses	Cicuits	Hours	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	Note
Introduction to Electronic Materials	3	3	Class	140	Class	Iuo	Class	140	3	140	Class	Iuo	Class	140	Class	140	Class	Iuo	
Optoelectronic Devices	3	3									3								Program core course
Introduction to Semiconductor Devices	3	3									3								Program core course
Electromagnetic Wav	3	3									3								
Introduction to Microwave Engineering	3	3											3						
Semiconductor Measurement	3	3											3						
Optoelectronic	3	3											3						
Optoelectronic Designand Application	3	3											3						
Introduction to Semiconductor Manufacuring Technology	3	3													3				
Introduction to Flat Display	3	3													3				
Semiconductor Thin Film Technology	3	3															3		
Optical Fiber Communication	3	3															3		
Military Training Education I	0	2	2																
Japanese I	2	3	2	1															
Military Training Education II	0	2			2														
Japanese II	2	3			2	1													
Information Applications	2	4			2	2													Computer course
Military Training Education III	0	2					2												

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					ear				year			3 rd v	vear			4 th	year		Tuge 5 of 7
Elective Courses	Credits	Hours	F	all	Spi	ring	Fa	all	Spi	ring		all	Spr		Fa	all		ring	Note
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Vector Calculus	3	3					3												
Military Training Education IV	0	2							2										
Optics and Optical Design	3	3							3										Computer course
OrCAD Electronic Circuit Design	3	3							3										Computer course
Communication Systems	3	3									3								
Complex Functions	3	3									3								
Microcontrollers	3	3									3								Computer course
Microprocessor Fundamentals	3	3									3								
Microprocessor Laboratory	2	2									2								
Synthesis Design I	3	3									3								
Synthesis Design II	4	4											4						
Communication System Lab	3	3											3						
Global Positioning System and Navigation	3	3											3						
Remote Sensing of Oceanography	3	3											3						
Real-time operating system	3	3											3						Computer course
Workplace English	3	3											3						
Introduction to Telecommunication Engineering	3	3											3						
Introduction to Random Processes	3	3											3						
Numerical Analysis	3	3											3						
VLSI Design	3	3											3						
Discrete Mathematics	3	3											3						
Antenna Project	3	3											3						
Communication Lab	3	3											3						
Green Energy Technology	3	3											3						
Interactive Technology	3	3													3				Computer course
Introduction to Data Compression	3	3													3				•
Solid State Electronics	3	3													3				
Introduction to Computer Networks	3	3													3				
Computer Vision	3	3													3				
Chip Design Practices	3	3													3				Computer course

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					1 st	year			2 nd	year	<u> </u>		3 rd	year			4 th	year		<u> </u>
Elective Cours	ses	Credits	Hours	F	all .	Spr	ing	Fa	all		ing	Fa	all	Spr	ing	Fa	ıll	Spi	ing	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Physical Train	ing (7)	2	2													2				
Internship	-	3	3													3				
Advanced Interns	ship	3	3															3		
Practical Project	of Electronics	3	3															3		
NANO Electro	onic Devices	3	3															3		
Physical Train	ing (8)	2	2															2		
	Subtotal Required	87																		
	Course Credits	07																		
Grand Total	Subtotal Elective	41																		
	Course Credits	41																		
	Total	128																		

Graduation Requirements:

- 1. In accordance with the General Provisions for Study, undergraduate students need to satisfactorily complete Service Learning, meet the university-wide basic competencies of English, Information Technology, Chinese, and Sports, and pass the core competencies of their department to be eligible for graduation.
- 2. Students who entered in and since the 2008-09 academic year need to complete at least 12 General Education course credits. General Education courses are divided into three areas: Humanities, Social Science, and Natural Science. Each area is divided into two subcategories: core and extended. Students need to take 1 two-credit course in both of the subcategories within each area to be eligible for graduation. Only 12 course credits will be counted toward graduation. Additional course credits earned in General Education courses are not counted toward graduation.
- 3. Courses from focused course programs set up by any individual IT department or cooperatively between IT and other Schools can be regarded as the EE professional elective courses under the approval of the department chair. Courses selected from other Schools can also be regarded as the EE professional elective courses under the approval of the department chair with a limitation of at most 20 course credits.
- 4. When retaking the required course, students can choose those which are with the same course name or the same course content as substitutions under the approval of the department chair. These courses can be regarded as their graduation credits.
- 5. Students who fulfill the requirement of each courses groups can apply for the corresponding certificate. Each courses groups has its own regulation as follows:
 - (1) The VLSI and System Engineering Courses Groups: In order to get the courses groups certificate, students must make at least seven elective courses, the program required courses include: Digital System Design and Lab, MATLAB Programming, Introduction to VLSI Design.

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- (2) The Electronic Components Courses Groups: In order to get the courses groups certificate, students must make at least seven elective courses, the program required courses include: Electromagnetics II, Optoelectronic Devices, Introduction to Semiconductor Devices.
- 6. Students can choose the courses from the EE master program, which can be counted as their graduation credits under the approval of the department chair.
- 7. Education credits cannot be counted as the graduation credits.
- 8. The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2015 academic year.