

# 2018학년도 교육과정표(2018 Curriculum)

전자공학과(Department of Electronics Engineering)

이수 구분 (Course Type)	교과목 번호 (Course Code)	교 과 목 명(영문명) (Course Title)	이수학기 및 학점		비고	
			학점-이론- 실습	학년-학기		
교 양 (General Education Course)	교양 필수 (Required)	ZE10043	공학작문및발표(Technical Writing & Presentation)	3-2-2	4-1	대학실용영어 I, II, 고급 중 수준에 따라 1과목 이수
		ZE10102	대학실용영어(I)(Practical College English(I))	2-3-0		
		ZE10103	대학실용영어(II)(Practical College English(II))	2-3-0	1-1	
		ZE10109	대학실용영어(고급)(Advanced Practical College English)	2-2-0		
		ZE10092	컴퓨팅사고(Computational Thinking)	1.5-3-0	1-1	
		ZE10100	기초컴퓨터프로그래밍(Basic Computer Programming)	1.5-3-0	1-2	
		ZE10091	고전 읽기와 토론(Reading Classics of Great Literature )	2-2-0	1-2	
	교양 선택 (Elective)	ZFz0081	I. ‘사상과 역사’ 영역 II. ‘사회와 문화’ 영역 III. ‘문학과 예술’ 영역 V. ‘건강과 레포츠’ 영역 VI. ‘외국어’ 영역 VII. ‘융복합’ 영역 ※ 6개 영역 중 4개 영역 을 선택해 각 영역에서 1과목 씩 이수	12-12-0		
		ZFz0082				
		ZFz0083				
ZFz0085						
ZFz0086						
ZFz0087						
기초교양	ZF11539	☯공학윤리(Engineering Ethics)		3-3-0	2-2	필수 이수 Required
전 공 (Major Course)	전공 기초 (Fundamental)	EE16575	◇○프로그래밍언어(Programming Language)	2-2-0	1-1	
		EE15039	○일반물리학실험(I)(General Physics Laboratory(I))	1-0-2	1-1	
		EE15214	○일반물리학(I)(General Physics(I))	3-3-0	1-1	
		EE15379	○공학미적분학(I)(Calculus in Engineering(I))	3-3-0	1-1	
		EE15489	일반화학(General Chemistry)	3-3-0	1-1	
		EE16523	◇★○프로그래밍응용(Applied Programming)	3-3-0	1-2	
		EE15222	일반물리학실험(II)(General Physics Laboratory(II))	1-0-2	1-2	
		EE15215	일반물리학(II)(General Physics(II))	3-3-0	1-2	
		EE15380	○공학미적분학(II)(Calculus in Engineering(II))	3-3-0	1-2	
		EE15570	공학선형대수학(Engineering Linear Algebra)	3-3-0	3-1	
				25학점		
	전공 필수 (Required)	EE31591	★◇◎△ 회로이론(I)(Circuit Theory(I))	3-3-0	1-2	
		EE31592	◇회로이론(II)(Circuit Theory(II))	3-3-0	2-1	
		EE27985	공학수학(I)(Engineering Mathematics(I))	3-3-0	2-1	
		EE30396	◇◎논리회로(Logic Circuits)	3-3-0	2-1	
		EE25953	★◇◎△ 전자기학(I)(Electromagnetics(I))	3-3-0	2-1	
		EE31693	◇기초전자전기실험(I)(Elementary Electronic and Electrical Lab.(I))	2-0-4	2-1	
EE31594		★◇△ 전자회로(I)(Electronic Circuits(I))	3-3-0	2-2		

	EE25985	◇전자기학(II)(Electromagnetics(II))	3-3-0	2-2	
	EE26029	★◇◎신호및시스템(Signals and Systems)	3-3-0	2-2	
	EE27992	공학수학(II)(Engineering Mathematics(II))	3-3-0	2-2	
	EE31694	◇기초전자전기실험(II)(Elementary Electronic and Electrical Lab.(II))	2-0-4	2-2	
	EE25797	물리전자(Physical Electronics)	3-3-0	3-1	
	EE21685	◇아날로그회로실험(Analog Circuit Lab.)	2-0-4	3-1	
	EE31685	전자회로(II)(Electronic Circuits(II))	3-3-0	3-1	
	EE31696	◇확률통계(Probability and Statistics)	3-3-0	3-1	
	EE31695	◇디지털회로실험(Digital Circuit Lab.)	2-0-4	3-2	
	EE31537	●◇공학설계과제(I)(Capstone Design Project(I))	2-0-4	4-1	
	EE31538	●◇공학설계과제(II)(Capstone Design Project(II))	2-0-4	4-2	
			48학점		
전공 선택 (Elective)	EE29183	생명과학(Life Science)	3-3-0	1-1	
	EE33698	효원인전자공학소양(The knowledge of the student of Dept. of Electronics Eng. of PNU)	2-2-0	1-1	
	EE27160	□공업논리와논술(Engineering Logic and Essay)	3-3-0	2-2	
	EE26216	★△마이크로프로세서응용(Microprocessor Applications)	3-3-0	3-1	택 3
	EE26217	★제어공학(Control Engineering)	3-3-0	3-1	Three Courses Required
	EE26218	△통신공학(Communication Engineering)	3-3-0	3-2	
	EE25805	△반도체공학(Semiconductor Engineering)	3-3-0	3-2	
	EE21689	전자장(Electromagnetic Fields)	3-3-0	3-1	
	EE27471	★수치해석(Numerical Analysis)	3-3-0	3-1	
	EE34750	연구참여(I)(Research Participation(I))	1-1-0	3-1	
	EE27535	□△공업교육론(Engineering Education)	3-3-0	3-1	
	EE24929	★컴퓨터구조(Computer Architectures)	3-3-0	3-2	
	EE26019	파동광학(Wave Optics)	3-3-0	3-2	
	EE31697	★△디지털시스템설계(Digital Systems Design)	3-3-0	3-2	
	EE21691	★제어시스템설계(Control System Design)	3-3-0	3-2	
	EE34751	연구참여(II)(Research Participation(II))	1-1-0	3-2	
	EE27534	□공업연구및지도법(Engineering Research and Teaching Method)	2-2-0	3-2	
	EE25710	전력전자(Power Electronics)	3-3-0	4-1	
	EE21688	★자료구조(Data Structures)	3-3-0	4-1	
	EE31698	★△디지털통신개론(Introduction to Digital Communications)	3-3-0	4-1	
EE31699	★디지털신호처리(Digital Signal Processing)	3-3-0	4-1		
EE30405	★임베디드시스템(Embedded Systems)	3-3-0	4-1		
EE26064	광전자공학(Optical Electronics)	3-3-0	4-1		

	EE31701	★ SoC설계개론(Introduction to SoC Design)	3-3-0	4-1	
	EE31702	◆산업체초청특강(Invited Lectures from Industry)	1-1-0	4-1	
	EE33695	전자공학세미나(Electronics Seminar)	1-1-0	4-1	
	EE20496	현장실습(Field Training or Field Practice)	6-0-12	4-1	
	EE24149	★ 데이터통신(Data Communications)	3-3-0	4-2	
	EE31703	RF공학(Radio Frequency Engineering)	3-3-0	4-2	
	EE31704	★ 로봇공학개론(Introduction to Robotics Engineering)	3-3-0	4-2	
	EE31705	무선이동통신(Wireless Mobile Communications)	3-3-0	4-2	
	EE21693	디스플레이공학(Display Engineering)	3-3-0	4-2	
	EE31706	광통신공학개론(Introduction to Optical Communication Engineering)	3-3-0	4-2	
	EE34722	시스템집적회로(System Integrated Circuits)	3-3-0	4-2	
			33학점		

○ 복수전공 전공기초 15학점, ◇ 최소전공 전공필수 36학점, ◎ 부전공 필수과목, ★ 연계전공, △ 교직과정 기본이수과목, □ 교직과정 교과교육영역, ◇ 융복합 교과, ◆ 산학협력 교과, ♣ 윤리 및 봉사 교과목, ● 캡스톤 디자인

### ■ 영역별 졸업기준 학점

학과 명	교 양		전 공			일반선택	졸업기준 학 점
	교양필수	교양선택 (기초교양)	최소전공		심화전공 (필수/선택)		
			전공기초	전공일반 (필수)			
전자공학과	10	15 (3)	25	36	45 (12/33)	6	137
Department of Electronics Engineering	Required General Education Course	Elective (General Education Course	Fundamental Major Course	Required Major Course	Elective Major Course	Secondary Education Course	Graduation Requirements