

Curriculum

☑ Majors of Information Electronic Engineering (정보전자전공)

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.- Designing Hr. for accreditation for engineering education-Prac.Trainig
1	2	EL1001	Introduction to Electronics Engineering	2-2-0-0
1	2	EL1002	Basic Circuit Theory and Lab	3-2-0-2
1	2	EL1003	Basic Creative Design	2-0-2-0
2	1	EL1004	Electromagnetics 1	3-3-0-0
2	1	EL1005	Circuit Theory	3-3-0-0
2	1	EL1006	Electronic Circuits 1	3-3-0-0
2	1	EL1007	Digital Circuits	3-3-0-0
2	1	EL1008	Digital Circuit Lab.	1-0-0-2
2	2	EL1009	Electromagnetics	3-3-0-0
2	2	EL1010	C Programming Application Practice	3-2-0-2
2	2	EL1011	Electronic Circuits 2	3-3-0-0
2	2	EL1012	Electronic Circuit Lab.	2-0-0-4
2	2	EL1013	Digital Circuit Application Design	3-1-2-0
3	1	EL1014	μ -Processor and Practice	3-2-0-2
3	1	EL1015	Physical Electronics	3-3-0-0
3	1	EL1016	Analog Circuit Application Design	3-1-2-0
3	1	EL1017	Power Electronics	3-3-0-0
3	1	EL1018	Communication Engineering	3-3-0-0
3	1	EL1019	Control Engineering	3-3-0-0
3	2	EL1020	μ -Processor Application Design	3-1-2-0
3	2	EL1021	Semiconductor Device	3-3-0-0
3	2	EL1022	HDL Design	3-1-2-0
3	2	EL1023	Electric Machinery	3-3-0-0
3	2	EL1024	Communication System	3-3-0-0
3	2	EL1025	Control System	3-3-0-0
4	1	EL1026	Creative Design Project 1	2-0-2-0
4	1	EL1028	Power System	3-3-0-0
4	1	EL1029	Semiconductor Process	3-3-0-0
4	1	EL1030	Digital Integrated Circuit	3-3-0-0

4	1	EL1031	SoC Architecture and Design	3-1-2-0
4	1	EL1039	IoT Sensors and Practice	3-2-0-2
4	1	EL1040	Control Engineering Application and Practice	3-2-0-2
4	2	EL1032	Creative Design Project 2	2-0-2-0
4	2	EL1033	Energy Conversion System	3-3-0-0
4	2	EL1034	Display Engineering	3-3-0-0
4	2	EL1035	Analog Integrated Circuits	3-3-0-0
4	2	EL1041	Information Security and Cryptography	3-3-0-0

☑ Majors of Control and Robot Engineering (제어및로봇전공)

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.- Designing Hr. for accreditation for engineering education-Prac.Trainig
1	2	EL2001	Logic Circuits	3-3-0-0
1	2	EL2002	Basic Creative Design	2-0-2-0
1	2	EL2014	Basic Circuit and Practice	1-0-0-2
2	1	EL2003	Electromagnetics 1	3-3-0-0
2	1	EL2004	Circuits Theory 1	3-3-0-0
2	1	EL2005	Electronic Circuits 1	3-3-0-0
2	1	EL2007	Logic Circuits Practice	1-0-0-2
2	1	EL2009	HDL Design	3-1-2-0
2	1	EL2021	Computer Architecture	3-3-0-0
2	2	EL2006	μ-Processor 1	3-2-0-2
2	2	EL2010	Electromagnetics 2	3-3-0-0
2	2	EL2011	Circuits Theory 2	3-3-0-0
2	2	EL2012	Electronic Circuits 2	3-3-0-0
2	2	EL2013	Electronic Circuits Practice 1	1-0-0-2
2	2	EL2030	C Programming Application Design	3-1-2-0
3	1	EL2015	μ-Processor 2	3-2-0-2
3	1	EL2017	Control Engineering 1	3-3-0-0
3	1	EL2018	Communication Engineering 1	3-3-0-0
3	1	EL2019	Sensor System Practice	1-0-0-2
3	1	EL2020	Electronic Circuits Practice 2	1-0-0-2
3	1	EL2028	Signal and System	3-3-0-0
3	1	EL2044	Windows Programming	3-2-0-2
3	1	EL2045	Semiconductor Engineering	3-3-0-0
3	2	EL2024	Control Engineering 2	3-3-0-0
3	2	EL2026	Robot Engineering 1	3-3-0-0
3	2	EL2025	Control Engineering Practice	1-0-0-2
3	2	EL2016	PLC Design	3-1-2-0
3	2	EL2027	Communication Engineering 2	3-3-0-0
3	2	EL2029	Power Electronics	3-3-0-0
3	2	EL2034	Digital Signal Processing	3-3-0-0
3	2	EL2036	Motor Control	3-3-0-0
4	1	EL2032	Creative Design Project 1	2-0-2-0

4	1	EL2031	Automatic System	3-3-0-0
4	1	EL2033	Digital Control1	3-3-0-0
4	1	EL2035	Robot Engineering 2	3-3-0-0
4	1	EL2040	Image Processing	3-3-0-0
4	2	EL2037	Creative Design Project 2	2-0-2-0
4	2	EL2039	Digital Control 2	3-3-0-0
4	2	EL2046	Introduction of Intelligence System	3-3-0-0
4	2	EL2047	Convergence Design	3-0-3-0

☑ Majors of Electronic Communication Engineering (전자통신전공)

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.- Designing Hr. for accreditation for engineering education-Prac.Trainig
1	2	EL3001	Circuits Theory 1	3-3-0-0
1	2	EL3002	Basic Creative Design	2-0-2-0
2	1	EL3003	Circuit theory 2	3-3-0-0
2	1	EL3004	Electronic Circuits 1	3-3-0-0
2	1	EL3005	Logic Circuits and Lab.	3-2-0-2
2	1	EL3009	Electromagnetics 1	3-3-0-0
2	1	EL3007	Engineering SW Lab.	3-2-0-2
2	2	EL3046	Electromagnetics 2	3-3-0-0
2	2	EL3010	Electronic Circuits Lab.	1-0-0-2
2	2	EL3011	Electronic Circuits 2	3-3-0-0
2	2	EL3012	μ-Processor Lab.	3-2-0-2
2	2	EL3013	Java Programming	3-2-0-2
3	1	EL3014	Communication Engineering 1	3-3-0-0
3	1	EL3016	Signal and System	3-3-0-0
3	1	EL3017	Digital System Design Lab.	3-2-0-2
3	1	EL3018	Control System 1	3-3-0-0
3	1	EL3019	Semiconductor Engineering 1	3-3-0-0
3	1	EL3020	Mobile Programming	2-1-0-2
3	1	EL3021	Probability and Random Signal Processing	3-3-0-0
3	2	EL3022	Communication Engineering 2	3-3-0-0
3	2	EL3045	Communication Engineering Lab.	2-0-0-4
3	2	EL3023	Date Communication	3-3-0-0
3	2	EL3024	Digital Signal Processing	3-3-0-0
3	2	EL3025	Coding Theory	3-3-0-0
	2	EL3026	Control System 2	3-3-0-0
3	2	EL3028	Semiconductor Engineering 2	3-3-0-0
3	2	EL3029	Wireless Sensor Networks	3-1-2-0
4	1	EL3030	Convergence Design Project 1	3-3-0-0
4	1	EL3031	Communication Network Theory	3-3-0-0
4	1	EL3032	Digital Communication System	3-1-2-0
4	1	EL3047	Machine Learning	3-3-0-0
4	1	EL3034	Hybrid Embedded Systems Theory	3-1-2-0

4	1	EL3008	Data Structures	3-3-0-0
4	2	EL3036	Convergence Design Project 2	2-0-2-0
4	2	EL3037	Mobile Communication	3-3-0-0
4	2	EL3039	Mechatronic Systems Engineering	2-2-0-0
4	2	EL3040	Smart Vehicle Engineering	2-2-0-0
4	2	EL3041	Information Security	3-3-0-0

☑ Majors of Electronics and Radio Communication Engineering (전자및전파전공)

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.- Designing Hr. for accreditation for engineering education-Prac.Trainig
1	2	EL4001	Circuits Theory 1	3-3-0-0
1	2	EL4002	Basic Design	2-0-2-0
2	1	EL4003	Electromagnetics 1	3-3-0-0
2	1	EL4004	Circuits Theory 2	3-3-0-0
2	1	EL4005	Logic Circuits	3-3-0-0
2	1	EL4006	Basic Circuit Lab.	1-0-0-2
2	1	EL4007	C Programming Application Practice	3-2-0-2
2	2	EL4008	Electromagnetics 2	3-3-0-0
2	2	EL4009	Electronic Circuits 1	3-3-0-0
2	2	EL4010	Electronic Circuits Lab. 2	1-0-0-2
2	2	EL4011	μ -Processor and Practice	3-2-0-2
2	2	EL4012	HDL Design	3-1-2-0
3	1	EL4013	Microwave Engineering 1	3-3-0-0
3	1	EL4014	Electromagnetics Theory	3-3-0-0
3	1	EL4015	Electronic Circuits 2	3-3-0-0
3	1	EL4016	Communication Engineering 1	3-3-0-0
3	1	EL4017	Electronic Circuits Lab. 2	1-0-0-2
3	1	EL4018	Control Engineering	3-3-0-0
3	1	EL4019	μ -Processor Application and Design	3-1-2-0
3	1	EL4020	Microwave Engineering Lab. 1	1-0-0-2
3	2	EL4021	Microwave Engineering 2	3-3-0-0
3	2	EL4022	Digital Signal Processing	3-3-0-0
3	2	EL4023	Communication Engineering 2	3-3-0-0
3	2	EL4024	Numerical Analysis and Practice	3-2-0-2
3	2	EL4025	Semiconductor Engineering	3-3-0-0
3	2	EL4026	Communication Engineering Lab.	1-0-0-2
3	2	EL4027	Microwave Engineering Lab. 2	1-0-0-2
3	2	EL4028	Design and application of Electronic Circuits	3-1-2-0
4	1	EL4029	Creative Design Project 1	2-0-2-0
4	1	EL4030	Antenna Engineering	3-3-0-0
4	1	EL4031	Digital Communication System	3-3-0-0
4	1	EL4032	DSP Application and Design	3-1-2-0

4	1	EL4033	EMC Engineering	3-3-0-0
4	1	EL4034	Ubiquitous Application	3-3-0-0
4	1	EL4035	RF Circuits Design	3-1-2-0
4	2	EL4036	Creative Design Project 2	2-0-2-0
4	2	EL4037	Mobile Communication	3-3-0-0
4	2	EL4038	Satellite Communication	3-3-0-0
4	2	EL4039	CMOS RF Integrated Circuit	3-3-0-0
4	2	EL4040	RF Active Circuits	3-3-0-0

☑ Majors of Electronics and IT Convergence (전자IT융합전공)

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.- Designing Hr. for accreditation for engineering education-Prac.Trainig
1	2	EL5001	Circuits Theory 1	3-3-0-0
1	2	EL5002	Creative Thinking and Innovation (Basic Design)	2-0-2-0
1	2	EL5003	Self-understanding and Career Exploration	2-2-0-0
2	1	EL5004	Digital Circuits	3-3-0-0
2	1	EL5007	C Programming Application Practice	3-2-0-2
2	1	EL5042	IT Practical Project 1	3-0-3-0
2	1	EL5006	Circuits Theory 2	3-3-0-0
2	2	EL5005	Electronic Circuits	3-3-0-0
2	2	EL5014	μ -Processor and Practice	3-2-0-2
2	2	EL5043	IT Practical Project 2	3-0-3-0
2	2	EL5015	Data Structures and Algorithms	3-2-0-2
2	2	EL5049	Linear Algebra for Electronic System	3-3-0-0
2	2	EL5050	C++ Programming	3-2-0-2
3	1	EL5018	μ -Processor Application and Practice	3-2-0-2
3	1	EL5021	Communication Engineering 1	3-3-0-0
3	1	EL5044	IT Practical Project 3	3-0-3-0
3	1	EL5017	Practical TRIZ	3-3-0-0
3	1	EL5019	Object-oriented Programming Languages	3-2-0-2
3	1	EL5022	Control Engineering	3-3-0-0
3	2	EL5025	Creative Idea and Patent Application	3-3-0-0
3	2	EL5026	Embedded Systems and Practices	3-2-0-2
3	2	EL5027	Data Networks	3-3-0-0
3	2	EL5024	Design Thinking	3-3-0-0
3	2	EL5028	Communication Engineering 2	3-3-0-0
3	2	EL5047	Next Generation SoC Processor	3-3-0-0
4	1	EL5030	Creative Design Project 1	2-0-2-0
4	1	EL5031	Wireless Network-military application	3-3-0-0
4	1	EL5032	Embedded Linux	3-3-0-0
4	1	EL5033	Network Programming	3-3-0-0
4	1	EL5034	Android Programming	3-3-0-0
4	1	EL5035	Six Sigma	3-3-0-0

4	1	EL5048	IoT Convergence System Practice	2-0-0-4
4	2	EL5036	Creative Design Project 2	2-0-2-0
4	2	EL5037	Military Real-time Software System	3-3-0-0
4	2	EL5029	Internet of Things	3-3-0-0
4	2	EL5045	Military Drone	3-3-0-0
4	2	EL5038	Introduction to Machine Learning	3-3-0-0