

○ 교육과정표(2023학년도 2학기)

Department	Subject	교과구분	credit	basic-application-fusion	note (existing/new)
Graduate School of Convergence for Clean Energy Integrated Power Generation (청정에너지 융합 발전 융합전공)	하이브리드에너지융합특론(CE7700113) (Special Topic of Integrated Hybrid Energy)	융합전공	3	fusion	existing (team teaching)
	신재생에너지융합특론(CE7700114) (Special Topic of Integrated New and Renewable Energy)	융합전공	3	fusion	existing
	재생에너지및지속가능성공학 (Renewable Energy & Sustainability Engineering)	융합전공	3	fusion	existing (team teaching)
	AI융합발전공학 (AI-Integrated Power Generation Engineering)	융합전공	3	fusion	existing (team teaching)
	에너지융합공정기술특론 (Advanced Energy-integrated Process Technology)	융합전공	3	fusion	existing
	수소에너지공학 (Hydrogen Energy Engineering)	융합전공	3	fusion	existing (team teaching)
School of Mechanical Engineering (기계공학부)	확률및통계 (Probability & Statistics)	융합전공	3	basic	existing
	고장감지및진단 (Fault detection and diagnosis)	융합전공	3	application	existing
	최적설계특론 (Advanced Optimal Design)	융합전공	3	application	existing
	기능성나노소재특론 (Advanced Engineering Nanomaterials)	융합전공	3	basic	existing
	고체역학특론 (Advanced Solid Mechanics)	융합전공	3	basic	existing
	재료과학특론 (Advanced Material Science)	융합전공	3	basic	existing
	동역학특론 (Advanced Dynamics)	융합전공	3	basic	existing
	유기재료특론 (Introduction to organic materials and applications)	융합전공	3	application	existing
	유한요소법특론 (Advanced Finite Element Method)	융합전공	3	application	existing
	열역학특론 (Advanced Thermodynamics)	융합전공	3	basic	existing
	유체역학특론 (Advanced Fluid Dynamics)	융합전공	3	basic	existing
	열물질확산특론 (Advanced Heat and Mass Diffusion)	융합전공	3	basic	existing
	가스터빈복합플랜트설계및운영 (Gas Turbine Combined Cycle Power Plant)	융합전공	3	application	existing
	풍력공학특론 (Applied Wind Energy Engineering)	융합전공	3	basic	existing
School of Chemical Engineering (응용화학공학부)	재료공학특론 (Advanced Material Engineering)	융합전공	3	basic	existing
	고등나노소재공학특론 (Advanced Nanostructured Materials Engineering)	융합전공	3	basic	existing
	바이오에너지공학 (Bioenergy Engineering)	융합전공	3	basic	existing

	에너지소재특론 (Advanced Energy Materials)	융합전공	3	basic	existing
	분자모델링응용 (Applied Molecular Modeling)	융합전공	3	application	existing
	전기화학특론 (Advanced Electrochemical Engineering)	융합전공	3	basic	existing
	촉매공학특론 (Advanced Catalyst Engineering)	융합전공	3	basic	existing
	반응공학특론 (Advanced Chemical Reaction Engineering)	융합전공	3	basic	existing
	분리공정특론 (Advanced Separation Process)	융합전공	3	application	existing
	분자및통계열역학 (Molecular and Statistical Thermodynamics)	융합전공	3	basic	existing
	수치및통계해석 (Numerical and Statistical Analysis)	융합전공	3	basic	existing
	화공빅데이터및머신러닝 (Chemical Engineering Big Data and Machine Learning)	융합전공	3	application	existing
	공정최적화 (Optimization of Engineering Process)	융합전공	3	basic	existing
	공정모델링및모사 (Process Modeling & Simulation)	융합전공	3	application	existing
	신재생에너지공학 (Renewable Energy Engineering)	융합전공	3	fusion	existing
	생물화학공학특론 (Advanced Biochemical Engineering)	융합전공	3	basic	existing
	미생물바이오리파이너리 (Microbial Biorefinery)	융합전공	3	basic	existing
	대사공학특론 (Advanced Metabolic Engineering)	융합전공	3	basic	new
	단백질공학특론 (Advanced Protein Engineering)	융합전공	3	basic	new
Department of Electrical and Electronics Engineering (전기전자공학과)	최적화이론 (Optimization)	융합전공	3	basic	existing
	전력계통공학 (Power System Engineering)	융합전공	3	basic	existing
	전력경제 (Power System Economics)	융합전공	3	application	existing
	전력계통운영 (Power System Operation)	융합전공	3	basic	existing
	전력계통계획 (Power System Planning)	융합전공	3	application	existing
	인공지능전력시스템 (AI Application to Power System)	융합전공	3	application	existing
	공학최적화문제의해결 (Engineering Optimization Problem Solving)	융합전공	3	basic	existing
	기체전자공학 (Gaseous Electronics)	융합전공	3	basic	existing
	방전물리 (Discharge Physics)	융합전공	3	basic	existing

	플라즈마공학 (Plasma Engineering)	융합전공	3	application	existing
	플라즈마공정론 (Principles of Plasma Processing)	융합전공	3	application	existing
	수치해석및프로그래밍 (Numerical Analysis & Programming)	융합전공	3	basic	existing
	플라즈마시뮬레이션 (Plasma Simulation)	융합전공	3	basic	existing
Nano Fusion Technology (나노융합기술학과)	하이브리드에너지공학특론 (Advanced Hybrid Energy Engineering)	융합전공	3	fusion	existing
	스마트환경센서공학특론 (Advanced Smart Environmental Sensor Engineering)	융합전공	3	fusion	existing
	탄소소재합성및분석특론 (Special Topics on Carbon Materials Synthesis and Analysis)	융합전공	3	application	existing
	전극소재공정기술특론 (Special Topics in Engineering Process of Electrode Materials)	융합전공	3	application	existing
	배터리과학및기술특론 (Special Topics in Battery Science and Technology)	융합전공	3	basic	existing