

□ 미래융합공학과 (Department of Future Convergence Engineering)

이수구분	교과목명		학점	비고
	국문	영문		
전공선택	응용수학	Applied Mathematics	3	전공기초
	응용수치해석	Applied Numerical Analysis	3	
	열전달특론	Advanced Heat Transfer	3	
	유체역학특론	Advanced Fluid Mechanics	3	
	연속체역학	Continuum Mechanics	3	
	최적설계	Optimal Design	3	
	연소공학특론	Advanced Combustion Engineering	3	
	고체역학특론	Advanced Solid Mechanics	3	
	생산공학특론	Advanced Manufacturing Engineering	3	
	고등제어시스템	Advanced Control System Theory	3	
	나노소자공정	Nano Fabrication and Processing	3	
	미세기전공정	Micro-Electromechanical Fabrication	3	
	계측공학특론	Advanced Measurement Engineering	3	
	센서공학특론	Sensor Engineering	3	
	비파괴검사특론	Advanced Nondestructive Testing	3	
	차량동역학및제어시스템특론	Vehicle Dynamics and Control System	3	
	인체운동의 역학및제어	Biomechanics and Control	3	전공 심화
	비선형역학	Nonlinear Engineering Systems	3	
	전도열전달	Conduction Heat Transfer	3	
	대류열전달	Convection Heat Transfer	3	
	복사열전달	Radiation Heat Transfer	3	
	피로공학	Fatigue Strength	3	
	복합재료역학	Mechanics of Composite Materials	3	
	내연기관특론	Advanced Internal Combustion Engine	3	
	마찰진동	Frictional-Induced Vibrations	3	
	음향학	Engineering Acoustics	3	
	소성가공학	Advanced Metal Forming	3	
	고등기구학	Advanced Kinematics	3	
	비뉴턴유체역학	Non-Newtonian Fluid Mechanics	3	
	에너지공학특강	Special Topics in Energy Engineering	3	
	파괴역학	Fracture Mechanics	3	
	파괴역학특론	Advanced Fracture Mechanics	3	
	전자패키지전산열유체	Electronic Package Computational Thermal-Fluid Anlysis	3	
	적외선열화상특론	Advanced Infrared Thermography	3	
	차량동력전달시스템특론	Advanced power train system of vehicle	3	
	전달현상특론	Transport Phenomena	3	
	나노유체역학	Nanofluidics	3	
	나노구동기설계및구현	Design and Implementation of Nano Actuation System	3	
고밀도에너지응용가공학	High Power Energy Manufacturing	3		
랜덤데이터	Random Data Analysis)	3		
나노열전달	Nanoscale Heat Transfer	3		
생체역학	Biomechanics	3		
이동로봇공학	mobile robot engineering	3		
인간로봇상호작용	Human-Machine Interface, HMI	3		
분자전산모사와 나노역학	Molecular Dynamics and Nanomechanics	3		
대체에너지기관특론	Advanced Substitute Energy Engines	3		
레이저가공학특론	Advanced Laser Processing	3		
에너지소재특론	Advanced Energy Materials	3		
박판성형해석특론	Advanced anlysis of sheet metal forming	3		

이수구분	교과목명		학점	비고	
	국문	영문			
전공선택	응용광학	Applied Optics	3	융합	
	광기전공학	Optomechatronics	3		
	나노/바이오융합시스템	Nano Bio Integrated Systems	3		
	머신러닝과 딥러닝 특론	Advanced Machine learning and Deep learning	3		
	광학 3D 측정 특론	Advanced technology of 3D measurement	3		
	신경망이론 및 응용	Theory and Application of Artificial Network	3		
	전동기설계특론	Advanced design of motor	3		
	자동차기능및안전분석	Analysis of Vehicle Function and Safety	3		
	식스시그마 응용	Applicatiuon of 6sigma	3		공통
	트리즈 응용 설계	Design using TRIZ	3		
	미래형자동차특론	Advanced future automotive engineering	3		
	논문 작성법 및 연구윤리	Thesis Writing and Research Ethics	3		
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	열유체분야기계공학세미나	Mechanical Engineering Seminar I	1	산학	
	소재공정분야기계공학세미나	Mechanical Engineering SeminarII	1		
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	설계생산분야기계공학응용세미나	Mechanical Engineering SeminarVII	1		
	융합기계분야기계공학응용세미나	Mechanical Engineering SeminarVIII	1		
	최신기술동향특론	Special Topics in Recent Technology Trend	3		
	마이크로로드맵작성법	Writing of Micro-Roadmap	3		
	연구개발기획특론	Advanced Research and Development Planning	3		
	R&D특허전략	R & D Patent Strategy	3		
	기술사업화전략	Technology commercialization strategy	3		
	실험계획분석법	Design of Experiments Methodology	3		
	산학공동프로젝트 I	Industry-Academic Convergence Project I	3		
	산학공동프로젝트 II	Industry-Academic Convergence Project II	3		
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