

교 육 과 정 표(2023-1차)

이수 구분	교과목번호	교과목명 (영문명)	학점 (학점-이론-실습)	비고
		연구및생명윤리	P./F	필수

이수 구분	교과목번호	교과목명 (영문명)	학점 (학점-이론-실습)	비고
전공	MN6600331	확률및통계 (Probability & Statistics)	3-3-0	기초
전공	MN7500124	공학수치해석특론 (Advanced Numerical Methods with Engineering Applications)	3-3-0	기초
전공	MN6800426	미분방정식특론 (Advanced Differential Equation)	3-3-0	기초
전공	MN6200693	선형대수학특론 (Advanced Linear Algebra)	3-3-0	기초
전공	MN7200274	응용공업수학 (Applied Engineering Mathematics)	3-3-0	기초
전공	MN6000515	고체역학특론 (Advanced Solid Mechanics)	3-3-0	핵심
전공	MN6400237	재료과학특론 (Advanced Material Science)	3-3-0	핵심
전공	MN6200713	선형진동론 (Theory of Linear Vibration)	3-3-0	핵심
전공	MN6100480	동역학특론 (Advanced Dynamics)	3-3-0	핵심
전공	MN7600516	생산공학특론 (Advanced Manufacturing Processes)	3-3-0	핵심
전공	MN6800488	유체역학특론 (Advanced Fluid Dynamics)	3-3-0	핵심
전공	MN6800663	마이크로가공 (Micromachining Theory)	3-3-0	핵심
전공	MN7600506	바이오영상신호처리 (Bio Image-Signal Processing)	3-3-0	핵심
전공	MN6300518	열역학특론 (Advanced Thermodynamics)	3-3-0	핵심
전공	MN7200307	실험열유체역학 (Experimental Methods of Thermo-Fluid Mechanics)	3-3-0	핵심
전공	MN7600507	열물질확산특론 (Advanced Heat and Mass Diffusion)	3-3-0	핵심
전공	MN6200706	선형제어 (Linear Control)	3-3-0	핵심
전공	MN6000280	측정및신호처리 (Measurement and Signal Processing)	3-3-0	핵심
전공	MN7200282	방사선공학 (Radiation Engineering)	3-3-0	핵심
전공	MN7600512	원자로이론 (Nuclear Reactor Theory)	3-3-0	핵심
전공	MN6000064	가공전열학 (Manufacturing Heat Transfer)	3-3-0	응용
전공	MN6000141	강소성유한요소법 (Rigid Finite Element Method)	3-3-0	응용
전공	MN6000208	경계요소법 (Boundary Element Method)	3-3-0	응용
전공	MN6000275	측정공학특론 (Advanced Measurement Engineering)	3-3-0	응용
전공	MN6000451	고속가공론 (Theory of High Speed Manufacturing)	3-3-0	응용
전공	MN6000550	공구설계특론 (Advanced Tool Design)	3-3-0	응용
전공	MN6000586	공작기계동역학 (Machine Tool Dynamics)	3-3-0	응용
전공	MN6000591	공작기계특론 (Advanced Machine Tools)	3-3-0	응용
전공	MN6000792	구조동역학 (Structural Dynamics)	3-3-0	응용
전공	MN6100035	기구학특론 (Advanced Kinematics)	3-3-0	응용
전공	MN6100111	난류이론 (Theory of Turbulence)	3-3-0	응용
전공	MN6100191	다물체동역학 (Multibody Dynamics)	3-3-0	응용
전공	MN6100201	다변수제어 (Multivariable Control)	3-3-0	응용
전공	MN6100227	단조공학 (Forging Engineering)	3-3-0	응용
전공	MN6100280	대류열전달 (Convective Heat Transfer)	3-3-0	응용
전공	MN6100584	마멸공학 (Wear)	3-3-0	응용
전공	MN6100980	복사열전달 (Radiative Heat Transfer)	3-3-0	응용
전공	MN6200007	복합가공론 (Combined Material Processing)	3-3-0	응용
전공	MN6200015	복합재료특론 (Advanced Composite Materials)	3-3-0	응용
전공	MN6200226	비선형제어 (Nonlinear Control)	3-3-0	응용
전공	MN6200254	비파괴평가특론 (Advanced Non-Destructive Evaluation)	3-3-0	응용
전공	MN6200553	생산자동화특론 (Advanced Production Automation)	3-3-0	응용
전공	MN6200579	생체역학특론 (Biomechanics)	3-3-0	응용

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전공	MN6200720	선형파괴역학 (Linear Elastic Fracture Mechanics)	3-3-0	응용
전공	MN6200790	성형공정설계 (Forming Process Design)	3-3-0	응용
전공	MN6200888	논문연구 (Thesis Research)	3-3-0	응용
전공	MN6200938	소성가공특론 (Advanced Metal Forming)	3-3-0	응용
전공	MN6200945	소성론 (Mechanics of Plastic Deformation)	3-3-0	응용
전공	MN6300489	연소공학특론 (Advanced Combustion Engineering)	3-3-0	응용
전공	MN6300561	고등전산유체역학 (Modern Methods in the Computational Fluid Dynamics)	3-3-0	응용
전공	MN6300590	기관설계공학 (Theory and Practice of Engine Design)	3-3-0	응용
전공	MN6300600	전산난류모델 (Numerical Methods for the Turbulence Models)	3-3-0	응용
전공	MN6300773	유압제어 (Hydraulic Control)	3-3-0	응용
전공	MN6300798	전산기구학 (Computational Kinematics)	3-3-0	응용
전공	MN6300799	고급응용수학 (Advanced Applied Mathematics)	3-3-0	응용
전공	MN6300813	기능부품설계특론 (Advanced Design of Functional Part)	3-3-0	응용
전공	MN6300814	CAD/CAM특론 (Advanced CAD/CAM)	3-3-0	응용
전공	MN6300815	압연이론 (Rolling Theory)	3-3-0	응용
전공	MN6300816	판재성형이론 (Mechanics of Sheet Metal Forming)	3-3-0	응용
전공	MN6300817	유한요소법특론 (Advanced Finite Element Method)	3-3-0	응용
전공	MN6300876	응용수치해석 (Applied Numerical Analysis)	3-3-0	응용
전공	MN6400024	인공지능특론 (Advanced Artificial Intelligence)	3-3-0	응용
전공	MN6400220	재료강도론 (Theory of Strength of Materials)	3-3-0	응용
전공	MN6400273	적응제어 (Adaptive Control)	3-3-0	응용
전공	MN6400383	절삭가공특론 (Advanced Metal Cutting Principle)	3-3-0	응용
전공	MN6400384	디지털신호처리 (Digital Signal Processing)	3-3-0	응용
전공	MN6400404	전자유체제어 (Electromagnetic Fluid Control)	3-3-0	응용
전공	MN6400405	정밀공학특론 (Advanced Precision Engineering)	3-3-0	응용
전공	MN6400493	추정론 (Estimation Theory)	3-3-0	응용
전공	MN6400503	제어공학특론 (Advanced Control Engineering)	3-3-0	응용
전공	MN6400953	최적설계응용 (Applied Optimal Design)	3-3-0	응용
전공	MN6400954	최적설계특론 (Advanced Optimal Design)	3-3-0	응용
전공	MN6400958	최적제어 (Optimal Control)	3-3-0	응용
전공	MN6500108	탄성론 (Theory of Elasticity)	3-3-0	응용
전공	MN6500118	탄성체동역학 (Flexible Multibody Dynamics)	3-3-0	응용
전공	MN6500211	특수가공학 (Nonconventional Processing)	3-3-0	응용
전공	MN6500647	금형설계특론 (Advanced Die Design)	3-3-0	응용
전공	MN6500757	플라스틱성형공정 (Plastic Manufacturing Process)	3-3-0	응용
전공	MN6500763	피로이론 (Theory of Fatigue)	3-3-0	응용
전공	MN6600441	회전소성가공학 (Principles of Rotary Forming Processes)	3-3-0	응용
전공	MN6800155	차량동역학특론 (Advanced Vehicle Dynamics)	3-3-0	응용
전공	MN6800157	기어시스템설계 (Geared System Design)	3-3-0	응용
전공	MN6800158	전자기기설계 (Design of Basic Electro-Mechanical Devices)	3-3-0	응용
전공	MN6800160	파동론 (Wave Mechanics)	3-3-0	응용
전공	MN6800161	판과셸이론 (Plates and Shells)	3-3-0	응용
전공	MN6800287	터보기계특론 (Advanced Turbomachinery)	3-3-0	응용
전공	MN6800290	나노입자공학 (Nano Particle Engineering)	3-3-0	응용
전공	MN6800293	마이크로유체공학 (MicroFluidics and Applications)	3-3-0	응용
전공	MN6800296	열교환기특론 (Advanced Heat Exchanger)	3-3-0	응용
전공	MN6800297	로봇공학특론(I) (Advanced Robotics(I))	3-3-0	응용

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전공	MN6800298	제어자동화네트워킹 (Networking for Control and Automation)	3-3-0	응용
전공	MN6800301	방사선계측시스템 (Radiation Measurement Systems)	3-3-0	응용
전공	MN6800305	인간-기계상호작용 (Human-Computer Interaction)	3-3-0	응용
전공	MN6800306	감성디자인 (Emotional Design)	3-3-0	응용
전공	MN6800661	분말성형이론 (Powder Forming Theory)	3-3-0	응용
전공	MN6800662	첨단레이저공학 (Advanced Laser Machining)	3-3-0	응용
전공	MN6900181	유비쿼터스컴퓨팅 (Ubiquitous Computing)	3-3-0	응용
전공	MN6900542	압축성유체역학 (Compressible Fluid Dynamics)	3-3-0	응용
전공	MN6900544	수치제어기계특론 (Advanced NC Machine Tool)	3-3-0	응용
전공	MN6900546	초정밀가공론 (Theory of Ultraprecision Processing)	3-3-0	응용
전공	MN6900639	냉동공조특론 (Advanced Refrigeration and Air Conditioning)	3-3-0	응용
전공	MN7000615	에너지시스템특론(I) (Special Topics in Energy Systems(I))	3-3-0	응용
전공	MN7000616	에너지시스템특론(II) (Special Topics in Energy Systems(II))	3-3-0	응용
전공	MN7000617	고체연료연소 특론 (Advanced Solid Fuel Combustion)	3-3-0	응용
전공	MN7000619	유동소음 (Flow-Induced Noise)	3-3-0	응용
전공	MN7000620	음향공학 (Acoustics)	3-3-0	응용
전공	MN7000622	소음진동실험해석 (Experimental analysis of noise and vibration)	3-3-0	응용
전공	MN7000623	소음진동시스템 (Noise Vibration Systems)	3-3-0	응용
전공	MN7000624	혼합체이론 (Mixture Theory)	3-3-0	응용
전공	MN7000626	전산음향학 (Computatioal Acoustics)	3-3-0	응용
전공	MN7000627	기계시스템설계특론(I) (Special Topics in Mechanical Systems Design (I))	3-3-0	응용
전공	MN7000628	기계시스템설계특론(II) (Special Topics in Mechanical Systems Design (II))	3-3-0	응용
전공	MN7000629	마이크로가공응용 (MEMS Design and Application)	3-3-0	응용
전공	MN7000631	로봇인지시스템 (Robot Perception System)	3-3-0	응용
전공	MN7000673	다이나믹시스템공학 (Dynamic System Engineering)	3-3-0	응용
전공	MN7100005	지능시스템특론 (Special Topics in Intelligent Systems)	3-3-0	응용
전공	MN7200275	풍력공학특론 (Applied Wind Energy Engineering)	3-3-0	응용
전공	MN7200276	에너지변환및발전공학 (Energy Conversion and Electric Generation Engineering)	3-3-0	응용
전공	MN7200278	응용광학및계측 (Applied Optics and Measurement)	3-3-0	응용
전공	MN7200280	동력로공학특론 (Advanced Power Reactor Engineering)	3-3-0	응용
전공	MN7200281	원자력정책및이슈 (Nuclear Policy and Issues)	3-3-0	응용
전공	MN7200308	전산유체역학특론 (Advanced Computational Fluid Dynamics)	3-3-0	응용
전공	MN7200323	사출성형특론 (Special Topics In Injection Molding Process)	3-3-0	응용
전공	MN7200335	윤활공학특론 (Tribology)	3-3-0	응용
전공	MN7200399	원자력안전특론 (Advanced Nuclear Safety)	3-3-0	응용
전공	MN7200522	풍력시스템설계특론 (ADVANCED THEORY OF WIND TURBINE SYSTEM DESIGN)	3-3-0	응용
전공	MN7200755	정밀메카트로닉스 (Precision Mechatronics)	3-3-0	응용
전공	MN7300000	해석음향학 (Analytic Acoustics)	3-3-0	응용
전공	MN7300129	원자력재료공학 (Nuclear Materials Engineering)	3-3-0	응용
전공	MN7300133	방사선영상개론 (Principles of Tomographic Imaging)	3-3-0	응용

이수 구분	교과목번호	교과목명 (영문명)	학점 (학점이론-실습)	비고
전공	MN7300266	자동차제어시스템 (Vehicle Control Systems)	3-3-0	응용
전공	MN7300341	기어시스템동역학 (geared system dynamics)	3-3-0	응용
전공	MN7300745	머신비전 (Machine Vision)	3-3-0	응용
전공	MN7300750	원자로공학 (Nuclear Reactor Engineering)	3-3-0	응용
전공	MN7300883	에너지기술정책개론 (Introduction to Policy and Technology of Sustainable Energy)	3-3-0	응용
전공	MN7300957	뇌공학 (Brain Engineering)	3-3-0	응용
전공	MN7300958	인지공학특론 (Special Topic on Cognitive Engineering)	3-3-0	응용
전공	MN7400210	생체유체공학 (Biofluid Mechanics)	3-3-0	응용
전공	MN7400275	연속체역학개론 (Introduction to Continuum Mechanics)	3-3-0	응용
전공	MN7400276	정밀측정학 (Precision Metrology)	3-3-0	응용
전공	MN7400435	표면및계면공학 (Surface and Interface Engineering)	3-3-0	응용
전공	MN7400465	전산다상유동 (Computational Multi-Phase Flow)	3-3-0	응용
전공	MN7400467	고등점성유동 (Advanced Viscous Flow)	3-3-0	응용
전공	MN7400515	스마트가전융합프로젝트 (Multi-disciplinary projects for smart appliances)	3-3-0	응용
전공	MN7400516	스마트가전인턴 (Internship for smart appliances)	3-3-0	응용
전공	MN7400549	회전체동역학 (Rotordynamics)	3-3-0	응용
전공	MN7400575	고압기계특론 (Advanced High Pressure Vessel)	3-3-0	응용
전공	MN7400666	가스터빈복합플랜트설계및운영 (Gas Turbine Combined Cycle Power Plant)	3-3-0	응용
전공	MN7400679	적층제조공학특론 (Advanced Additive Manufacturing Technologies)	3-3-0	응용
전공	MN7400681	전기동력자동차제어 (Electrified Vehicle Control)	3-3-0	응용
전공	MN7400943	의학영상센서 (Medical Imaging Detectors)	3-3-0	응용
전공	MN7400945	의료용로봇특론 (Advanced Medical Robotics)	3-3-0	응용
전공	MN7500095	방사선빔응용공학 (Radiation Beam Applications)	3-3-0	응용
전공	MN7500096	원자로실험 (Nuclear Reactor Experiments)	3-3-0	응용
전공	MN7500097	열수력시스템최적화 (Optimization of Thermal-Hydraulic System)	3-3-0	응용
전공	MN7500112	고장감지및진단 (Fault detection and diagnosis)	3-3-0	응용
전공	MN7500113	방사선물리및방호 (Radiation Physics and Protection)	3-3-0	응용
전공	MN7500114	방사성폐기물관리 (Nuclear Waste Management)	3-3-0	응용
전공	MN7500115	원전제염해체특론 (Special Topics in Decommissioning and Decontamination of Nuclear Facilities)	3-3-0	응용
전공	MN7500254	원자력화학공학 (Nuclear Chemical Engineering)	3-3-0	응용
전공	MN7500712	음향제어특론 (Advanced Acoustic Control)	3-3-0	응용
전공	MN7600496	전산모사공학 (Computer simulation engineering)	3-3-0	응용
전공	MN7600497	에너지저장/변환재료설계 (Advanced System Design in Energy Storage & Conversion)	3-3-0	응용
전공	MN7600498	유기재료특론 (Introduction to organic materials and applications)	3-3-0	응용
전공	MN7600499	마이크로역학 (Micromechanics of Materials)	3-3-0	응용
전공	MN7600500	회전기계설계 (Design of Rotating Machinery)	3-3-0	응용
전공	MN7600501	베어링윤활과씰동역학 (Bearing Lubrication and Seal Dynamics)	3-3-0	응용
전공	MN7600502	회전기계고장진단 (Fault Diagnosis of Rotating Machinery)	3-3-0	응용
전공	MN7600503	디지털및인공지능제어 (Digital and Artificial Intelligence Control)	3-3-0	응용
전공	MN7600504	생체모방공학 (Biomimetic Engineering)	3-3-0	응용
전공	MN7600505	공학응용프로그래밍 (Computer Programming for Engineering Applications)	3-3-0	응용
전공	MN7600508	재료부식특론 (Materials Corrosion and Degradation)	3-3-0	응용
전공	MN7600509	나노공정개론 (Introduction to Nanotech Processing)	3-3-0	응용

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전공	MN7600510	지능로봇융합특론 (Advanced Intelligent Convergence Robot)	3-3-0	응용
전공	MN7600511	방사선영상공학 (Radiological Engineering)	3-3-0	응용
전공	MN7600513	기능성나노소재특론 (Advanced Engineering Nanomaterials)	3-3-0	응용
전공	MN7700107	다상유동(Ⅰ)(Multi-phase Flow(Ⅰ))	3-3-0	응용
전공	MN7700108	다상유동(Ⅱ)(Multi-phase Flow(Ⅱ))	3-3-0	응용