

## 교 육 과 정 표(2021-2차)

교과목번호	교과목명 (영문명)	학점	비고
MN66331	확률및통계 ( Probability & Statistics)	3	기초
MN75124	공학수치해석특론 ( Advanced Numerical Methods with Engineering Applications)	3	기초
MN68426	미분방정식특론 ( Advanced Differential Equation)	3	기초
MN62693	선형대수학특론 ( Advanced Linear Algebra)	3	기초
MN72274	응용공업수학 ( Applied Engineering Mathematics)	3	기초
MN60515	고체역학특론 ( Advanced Solid Mechanics)	3	핵심
MN64237	재료과학특론 ( Advanced Material Science)	3	핵심
MN62713	선형진동론 ( Theory of Linear Vibration)	3	핵심
MN61480	동역학특론 ( Advanced Dynamics)	3	핵심
MN76516	생산공학특론 ( Advanced Manufacturing Processes)	3	핵심
MN68488	유체역학특론 ( Advanced Fluid Dynamics)	3	핵심
MN68663	마이크로가공 ( Micromachining Theory)	3	핵심
MN76506	바이오영상신호처리 ( Bio Image-Signal Processing)	3	핵심
MN63518	열역학특론 ( Advanced Thermodynamics)	3	핵심
MN72307	실험열유체역학 ( Experimental Methods of Thermo-Fluid Mechanics)	3	핵심
MN76507	열물질확산특론 ( Advanced Heat and Mass Diffusion)	3	핵심
MN62706	선형제어 ( Linear Control)	3	핵심
MN60280	계측및신호처리 ( Measurement and Signal Processing)	3	핵심
MN72282	방사선공학 ( Radiation Engineering)	3	핵심
MN73750	원자로공학 ( Nuclear Reactor Engineering)	3	핵심
MN60064	가공전열학 ( Manufacturing Heat Transfer)	3	응용
MN60141	강소성유한요소법 ( Rigid Finite Element Method)	3	응용
MN60208	경계요소법 ( Boundary Element Method)	3	응용
MN60275	계측공학특론 ( Advanced Measurement Engineering)	3	응용
MN60451	고속가공론 ( Theory of High Speed Manufacturing)	3	응용
MN60550	공구설계특론 ( Advanced Tool Design)	3	응용
MN60586	공작기계동역학 ( Machine Tool Dynamics)	3	응용
MN60591	공작기계특론 ( Advanced Machine Tools)	3	응용
MN60792	구조동역학 ( Structural Dynamics)	3	응용
MN61035	기구학특론 ( Advanced Kinematics)	3	응용
MN61111	난류이론 ( Theory of Turbulence)	3	응용
MN61191	다물체동역학 ( Multibody Dynamics)	3	응용
MN61201	다변수제어 ( Multivariable Control)	3	응용
MN61227	단조공학 ( Forging Engineering)	3	응용
MN61280	대류열전달 ( Convective Heat Transfer)	3	응용
MN61584	마멸공학 ( Wear)	3	응용
MN61980	복사열전달 ( Radiative Heat Transfer)	3	응용
MN62007	복합가공론 ( Combined Material Processing)	3	응용
MN62015	복합재료특론 ( Advanced Composite Materials)	3	응용
MN62226	비선형제어 ( Nonlinear Control)	3	응용
MN62254	비파괴평가특론 ( Advanced Non-Destructive Evaluation)	3	응용
MN62553	생산자동화특론 ( Advanced Production Automation)	3	응용
MN62579	생체역학특론 ( Biomechanics)	3	응용

교과목번호	교과목명 (영문명)	학점	비고
MN62720	선형파괴역학 ( Linear Elastic Fracture Mechanics)	3	응용
MN62790	성형공정설계 ( Forming Process Design)	3	응용
MN62888	논문연구 ( Thesis Research)	3	응용
MN62938	소성가공특론 ( Advanced Metal Forming)	3	응용
MN62945	소성론 ( Mechanics of Plastic Deformation)	3	응용
MN63489	연소공학특론 ( Advanced Combustion Engineering)	3	응용
MN63561	고등전산유체역학 ( Modern Methods in the Computational Fluid Dynamics)	3	응용
MN63590	기관설계공학 ( Theory and Practice of Engine Design)	3	응용
MN63600	전산난류모델 ( Numerical Methods for the Turbulence Models)	3	응용
MN63773	유압제어 ( Hydraulic Control)	3	응용
MN63798	전산기구학 ( Computational Kinematics)	3	응용
MN63799	고급응용수학 ( Advanced Applied Mathematics)	3	응용
MN63813	기능부품설계특론 ( Advanced Design of Functional Part)	3	응용
MN63814	CAD/CAM특론 ( Advanced CAD/CAM)	3	응용
MN63815	압연이론 ( Rolling Theory)	3	응용
MN63816	판재성형이론 ( Mechanics of Sheet Metal Forming)	3	응용
MN63817	유한요소법특론 ( Advanced Finite Element Method)	3	응용
MN63876	응용수치해석 ( Applied Numerical Analysis)	3	응용
MN64024	인공지능특론 ( Advanced Artificial Intelligence)	3	응용
MN64220	재료강도론 ( Theory of Strength of Materials)	3	응용
MN64273	적응제어 ( Adaptive Control)	3	응용
MN64383	절삭가공특론 ( Advanced Metal Cutting Principle)	3	응용
MN64384	디지털신호처리 ( Digital Signal Processing)	3	응용
MN64404	전자유체제어 ( Electromagnetic Fluid Control)	3	응용
MN64405	정밀공학특론 ( Advanced Precision Engineering)	3	응용
MN64493	추정론 ( Estimation Theory)	3	응용
MN64503	제어공학특론 ( Advanced Control Engineering)	3	응용
MN64953	최적설계응용 ( Applied Optimal Design)	3	응용
MN64954	최적설계특론 ( Advanced Optimal Design)	3	응용
MN64958	최적제어 ( Optimal Control)	3	응용
MN65108	탄성론 ( Theory of Elasticity)	3	응용
MN65118	탄성체동역학 ( Flexible Multibody Dynamics)	3	응용
MN65211	특수가공학 ( Nonconventional Processing)	3	응용
MN65647	금형설계특론 ( Advanced Die Design)	3	응용
MN65757	플라스틱성형공정 ( Plastic Manufacturing Process)	3	응용
MN65763	피로이론 ( Theory of Fatigue)	3	응용
MN66441	회전소성가공학 ( Principles of Rotary Forming Processes)	3	응용
MN68155	차량동역학특론 ( Advanced Vehicle Dynamics)	3	응용
MN68157	기어시스템설계 ( Geared System Design)	3	응용
MN68158	전자기기설계 ( Design of Basic Electro-Mechanical Devices)	3	응용
MN68160	파동론 ( Wave Mechanics)	3	응용
MN68161	판과셸이론 ( Plates and Shells)	3	응용
MN68287	터보기계특론 ( Advanced Turbomachinery)	3	응용
MN68290	나노입자공학 ( Nano Particle Engineering)	3	응용
MN68293	마이크로유체공학 ( MicroFluidics and Applications)	3	응용
MN68296	열교환기특론 ( Advanced Heat Exchanger)	3	응용
MN68297	로봇공학특론(I) ( Advanced Robotics(I))	3	응용

교과목번호	교과목명 (영문명)	학점	비고
MN68298	제어자동화네트워킹 ( Networking for Control and Automation)	3	응용
MN68301	방사선계측시스템 ( Radiation Measurement Systems)	3	응용
MN68305	인간-기계상호작용 ( Human-Computer Interaction)	3	응용
MN68306	감성디자인 ( Emotional Design)	3	응용
MN68661	분말성형이론 ( Powder Forming Theory)	3	응용

MN68662	첨단레이저공학 ( Advanced Laser Machining)	3	응용
MN69181	유비쿼터스컴퓨팅 ( Ubiquitous Computing)	3	응용
MN69542	압축성유체역학 ( Compressible Fluid Dynamics)	3	응용
MN69544	수치제어기계특론 ( Advanced NC Machine Tool)	3	응용
MN69546	초정밀가공론 ( Theory of Ultraprecision Processing)	3	응용
MN69639	냉동공조특론 ( Advanced Refrigeration and Air Conditioning)	3	응용
MN70615	에너지시스템특론(I) ( Special Topics in Energy Systems(I))	3	응용
MN70616	에너지시스템특론(II) ( Special Topics in Energy Systems(II))	3	응용
MN70617	고체연료연소 특론 ( Advanced Solid Fuel Combustion)	3	응용
MN70619	유동소음 ( Flow-Induced Noise)	3	응용
MN70620	음향공학 ( Acoustics)	3	응용
MN70622	소음진동실험해석 ( Experimental analysis of noise and vibration)	3	응용
MN70623	소음진동시스템 ( Noise Vibration Systems)	3	응용
MN70624	혼합체이론 ( Mixture Theory)	3	응용
MN70626	전산음향학 ( Computatioal Acoustics)	3	응용
MN70627	기계시스템설계특론(I) ( Special Topics in Mechanical Systems Design (I))	3	응용
MN70628	기계시스템설계특론(II) ( Special Topics in Mechanical Systems Design (II))	3	응용
MN70629	마이크로가공응용 ( MEMS Design and Application)	3	응용
MN70631	로봇인지시스템 ( Robot Perception System)	3	응용
MN70673	다이나믹시스템공학 ( Dynamic System Engineering)	3	응용
MN71005	지능시스템특론 ( Special Topics in Intelligent Systems)	3	응용
MN72275	풍력공학특론 ( Applied Wind Energy Engineering)	3	응용
MN72276	에너지변환및발전공학 ( Energy Conversion and Electric Generation Engineering)	3	응용
MN72278	응용광학및계측 ( Applied Optics and Measurement)	3	응용
MN72280	동력로공학특론 ( Advanced Power Reactor Engineering)	3	응용
MN72281	원자력정책및이슈 ( Nuclear Policy and Issues)	3	응용
MN72308	전산유체역학특론 ( Advanced Computational Fluid Dynamics)	3	응용
MN72323	사출성형특론 ( Special Topics In Injection Molding Process)	3	응용
MN72335	윤활공학특론 ( Tribology)	3	응용
MN72399	원자력안전특론 ( Advanced Nuclear Safety)	3	응용
MN72400	다상유동개론 ( Introduction to Multi-Phase Flow)	3	응용
MN72401	다상유동응용 ( Applications of Multi-Phase Flow)	3	응용
MN72522	풍력시스템설계특론 ( Advanced Theory of Wind Turbine System Design)	3	응용
MN72755	정밀메카트로닉스 ( Precision Mechatronics)	3	응용
MN73000	해석음향학 ( Analytic Acoustics)	3	응용
MN73129	원자력재료공학 ( Nuclear Materials Engineering)	3	응용
MN73133	방사선영상개론 ( Principles of Tomographic Imaging)	3	응용

교과목번호	교과목명 (영문명)	학점	비고
MN73266	자동차제어시스템 ( Vehicle Control Systems)	3	응용
MN73341	기어시스템동역학 ( geared system dynamics)	3	응용
MN73745	머신비전 ( Machine Vision)	3	응용
MN73883	에너지기술정책개론 ( Introduction to Policy and Technology of Sustainable Energy)	3	응용
MN73957	뇌공학 ( Brain Engineering)	3	응용
MN73958	인지공학특론 ( Special Topic on Cognitive Engineering)	3	응용
MN74210	생체유체공학 ( Biofluid Mechanics)	3	응용
MN74275	연속체역학개론 ( Introduction to Continuum Mechanics)	3	응용
MN74276	정밀측정학 ( Precision Metrology)	3	응용
MN74435	표면및계면공학 ( Surface and Interface Engineering)	3	응용
MN74465	전산다상유동 ( Computational Multi-Phase Flow)	3	응용
MN74467	고등점성유동 ( Advanced Viscous Flow)	3	응용
MN74515	스마트가전융합프로젝트 ( Multi-disciplinary projects for smart appliances)	3	응용
MN74516	스마트가전인턴 ( Internship for smart appliances)	3	응용
MN74549	회전체동역학 ( Rotordynamics)	3	응용
MN74575	고압기계특론 ( Advanced High Pressure Vessel)	3	응용
MN74666	가스터빈복합플랜트설계및운영 ( Gas Turbine Combined Cycle Power Plant)	3	응용
MN74679	적층제조공학특론 ( Advanced Additive Manufacturing Technologies)	3	응용
MN74681	전기동력자동차제어 ( Electrified Vehicle Control)	3	응용
MN74943	의학영상센서 ( Medical Imaging Detectors)	3	응용
MN74945	의료용로봇특론 ( Advanced Medical Robotics)	3	응용
MN75095	방사선빔응용공학 ( Radiation Beam Applications)	3	응용
MN75096	원자로실험 ( Nuclear Reactor Experiments)	3	응용
MN75097	열수력시스템최적화 ( Optimization of Thermal-Hydraulic System)	3	응용
MN75112	고장감지및진단 ( Fault detection and diagnosis)	3	응용
MN75113	방사선물리및방호 ( Radiation Physics and Protection)	3	응용
MN75114	방사성폐기물관리 ( Nuclear Waste Management)	3	응용
MN75115	원전제염해체특론 ( Special Topics in Decommissioning and Decontamination of Nuclear Facilities)	3	응용
MN75254	원자력화학공학 ( Nuclear Chemical Engineering)	3	응용
MN75712	음향제어특론 ( Advanced Acoustic Control)	3	응용
MN76496	전산모사공학 ( Computer simulation engineering)	3	응용
MN76497	에너지저장/변환재료설계 ( Advanced System Design in Energy Storage & Conversion)	3	응용
MN76498	유기재료특론 ( Introduction to organic materials and applications)	3	응용
MN76499	마이크로역학 ( Micromechanics of Materials)	3	응용
MN76500	회전기계설계 ( Design of Rotating Machinery)	3	응용
MN76501	베어링윤활과씰일동역학 ( Bearing Lubrication and Seal Dynamics)	3	응용
MN76502	회전기계고장진단 ( Fault Diagnosis of Rotating Machinery)	3	응용
MN76503	디지털및인공지능제어 ( Digital and Artificial Intelligence Control)	3	응용
MN76504	생체모방공학 ( Biomimetic Engineering)	3	응용
MN76505	공학응용프로그래밍 ( Computer Programming for Engineering Applications)	3	응용
MN76508	재료부식특론 ( Materials Corrosion and Degradation)	3	응용
MN76509	나노공정개론 ( Introduction to Nanotech Processing)	3	응용

교과목번호	교과목명 (영문명)	학점	비고
MN76510	지능로봇융합특론 ( Advanced Intelligent Convergence Robot)	3	응용
MN76511	방사선영상공학 ( Radiological Engineering)	3	응용
MN76512	원자로이론 ( Nuclear Reactor Theory)	3	응용
MN76513	기능성나노소재특론 ( Advanced Engineering Nanomaterials)	3	응용
MN76572	생체의료용 재료 가공 및 응용(Engineering of biomedical materials)	3	응용
MN68292	미세유체시스템특론(Advanced Microfluidic System)	3	응용