Curriculum for Master Course

Major	No.	Subject		Units
		Korean	English	
Common Subject	47401	논문연구 Ⅰ	Thesis Research Ⅰ	3-3-0
	47402	논문연구 Ⅱ	Thesis Research Ⅱ	3-3-0
	47403	계측공학특론	Advanced Measurement and Instrumentation	3-3-0
	47404	응용수학특론	Advanced Applied Mathematics	3-3-0
	47405	특허특강	Topics in Patent	3-3-0
	47406	제어공학특론	Advanced Control Engineering	3-3-0
	47407	수치해석특론	Advanced Numerical Analysis	3-3-0
	47408	마이크로프로세서응용	Microprocessor Applications	3-3-0
	47409	인턴쉽1	Internship 1	3-0-6 P/F
	47410	인턴쉽2	Internship 2	3-0-6 P/F
	47411	인턴쉽3	Internship 3	3-0-6 P/F
	47412	인턴쉽4	Internship 4	3-0-6 P/F
	47413	메카트로닉스 실무	Practices in Mechatronics	3-0-6
	47414	CAD 실무	Practices in Computer Aided Design	3-0-6
Intelligent Robot System	47801	동역학특론	Advanced Dynamics	3-3-0
	47802	로봇공학특론	Advanced Robotics Engineering	3-3-0
	47803	선형시스템	Linear System	3-3-0
	47804	자동제어특론	Advanced Automatic Control	3-3-0
	47805	CAD특론	Advanced Computer Aided Design	3-3-0
	47806	가상공학	Virtual Engineering	3-3-0
	47807	강인제어	Robust Control	3-3-0
	47808	계산기하학	Computational Geometry	3-3-0
	47810	고급소프트웨어공학	Advanced Software Engineering	3-3-0
	47811	기하설계	Geometric Design	3-3-0
	47812	디지털제어 및 응용특론	Digital Control and Application	3-3-0
	47813	로봇제어시스템	Robot Control System	3-3-0
	47814	마이크로프로세서특론	Advanced Microprocessor	3-3-0
	47815	맨머신 인터페이스	Man-Machine Interface	3-3-0
	47816	메카세미나	Mechatronics Seminar	1-1-0
	47817	메카트로닉스특론	Advanced Mechatronics	3-3-0
	47818	분산제어	Distributed Control	3-3-0
	47819	비선형제어	Nonlinear Control	3-3-0
	47820	시뮬레이션특론	Advanced Simulation	3-3-0
	47821	실시간시스템특론	Advanced Real Time System	3-3-0
	47822	영상처리	Image Processing	3-3-0
	47823	유압공학특론	Advanced Fluid Power Control	3-3-0
	47824	유압제어	Fluid Power Control	3-3-0
	47825	응용로봇공학	Applied Robot Engineering	3-3-0
	47826	이산시스템제어	Discrete-Time Control	3-3-0
	47827	인공지능응용	Applied Artificial Intelligence	3-3-0
	47828	적응신호처리	Adaptive Signal Processing	3-3-0
	47829	적응제어	Adaptive Control	3-3-0
	47830	전산기구학	Computational Kinematics	3-3-0
	47831	전자제어특론	Advanced Electronic Control	3-3-0

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		Korean	English	
	47832	제어특수연구 1	Special Topics in Control 1	3-3-0
	47833	제어특수연구 2	Special Topics in Control 2	3-3-0
	47834	지능제어	Intelligent Control	3-3-0
	47835	진동특론	Advanced Vibration	3-3-0
	47836	차량동력학	Vehicle Dynamics	3-3-0
	47837	차량메카트로닉스	Vehicle Mechatronics	3-3-0
	47838	최적제어	Optimal Control	3-3-0
	47839	컴퓨터그래픽스특론	Advanced Computer Graphics	3-3-0
	47840	CAD특수연구	Special Topics in Computer Aided Design	3-3-0
	47841	CAM특론	Advanced CAM	3-3-0
	47842	DSP 및 응용특론	Advanced DSP and its Application	3-3-0
	47843	PLM	PLM	3-3-0
	47844	**전산동역학**	**Computational Dynamics**	3-3-0
	47845	지능로봇 실무	Practices in Intelligent Robot	3-0-6
	47846	확률과 랜덤 프로세스	Probability and Random Process	3-3-0
Solid/Bio Mechanics	47539	고등고체역학	Advanced Strength of Materials	3-3-0
	47540	고등동력학	Advanced Dynamics	3-3-0
	47541	고등생체역학	Advanced Biomechanics	3-3-0
	47542	고등유한요소법	Advanced Finite Element Method	3-3-0
	47543	고등진동론	Advanced Theory of Vibration	3-3-0
	47544	고체역학특론	Advanced Solid Mechanics	3-3-0
	47545	기계설계특론	Advanced Machine Design	3-3-0
	47546	랜덤데이타	Random Data	3-3-0
	47547	바이오메카트로닉스	Biomechatronics Engineering	3-3-0
	47548	변분 및 에너지법	Variational and Energy Methods	3-3-0
	47549	복합재료역학	Mechanics of Composite Materials	3-3-0
	47550	비파괴검사	Nondestructive Testing	3-3-0
	47551	생체역학특론	Special Topics of Biomechanics	3-3-0
	47552	셸이론	Theory of Shells	3-3-0
	47553	소성가공론	Theory of Metal Forming	3-3-0
	47554	소성역학	Theory of Plasticity	3-3-0
	47555	소음진동학	Theory of Noise and Vibration	3-3-0
	47556	실험역학	Experimental Mechanics	3-3-0
	47557	연속체역학	Continuum Mechanics	3-3-0
	47558	열응력해석	Analysis of Thermal Stresses	3-3-0
	47559	유한요소법	Finite Element Method	3-3-0
	47560	응용최적설계	Applied Optimal Design	3-3-0
	47561	인공지능	Artificial Intelligence	3-3-0
	47562	재료거동학	Mechanical Behavior of Materials	3-3-0
	47563	재활의공학	Rehabilitation Medical Engineering	3-3-0
	47564	최적설계특론	Advanced Optimal Design	3-3-0
	47565	최적제어	Optimal Control	3-3-0
	47566	충격이론	Shock Theory	3-3-0
	47567	탄성안정론	Elastic Stability	3-3-0
	47568	탄성학	Theory of Elasticity	3-3-0
	47569	탄소성역학	Theory of Elasto-Plasticity	3-3-0

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		Korean	English	
	47570	트라이볼로지	Tribology	3-3-0
	47571	파괴역학	Fracture Mechanics	3-3-0
	47572	파괴역학특론	Advanced Fracture Mechanics	3-3-0
	47573	판이론	Theory of Plates	3-3-0
	47574	해석역학	Analytical Mechanics	3-3-0
	47575	CAE 실무	Practices in Computer Aided Engineering	3-0-6
Nano/Micro System	47601	고등계측공학	Advanced Instrumentation	3-3-0
	47602	공작기계특론	Advanced Machine Tool	3-3-0
	47603	기계재료특론	Advanced Mechanical Materials	3-3-0
	47604	레이저응용계측기술	Laser Application in instrumentation	3-3-0
	47605	마이크로/나노시스템	Micro/Nano System	3-3-0
	47606	메카트로닉스특론	Advanced Mechatronics	3-3-0
	47607	미세가공기술	Micromachining Technology	3-3-0
	47608	센서응용기술	Sensor Applied Technology	3-3-0
	47609	생산지능화시스템특론	Advanced Production Intelligent System	3-3-0
	47610	스마트센서와액츄에이터	Smart Sensors and Actuators	3-3-0
	47611	연삭가공특론	Theory of Grinding	3-3-0
	47612	용접공학특론	Advanced Welding Engineering	3-3-0
	47613	용접구조설계론	Theory of Welding Structural Design	3-3-0
	47614	용접역학특론	Advanced Strength of Weld Joints	3-3-0
	47615	육안검사의 자동화기술	Automation Technology of Visual Inspection	3-3-0
	47616	자성체응용메카트로닉스	Applied Mechatronics with Magnetic Materials	3-3-0
	47617	절삭가공특론	Advanced Metal Cutting	3-3-0
	47618	정밀계측특론	Advanced Precision Measuring	3-3-0
	47619	정밀공학특론	Advanced Precision Engineering	3-3-0
	47620	제어시스템특론	Advanced Control System	3-3-0
	47621	초정밀가공론	Theory of Ultra Precision Machining	3-3-0
	47622	특수가공론	Theory of Special Machining	3-3-0
	47623	특수용접론	Theory of Special Welding	3-3-0
	47624	표면공학	Surface Tribology	3-3-0
	47625	회전체동력학	Dynamics of Rotating Machinery	3-3-0
	47626	나노/마이크로시스템 실무	Practices in Nano and Micro System	3-0-6
Advanced Energy System	47701	경계층이론	Boundary Layer Theory	3-3-0
	47702	계측제어	Data Acquisition System	3-3-0
	47703	공기조화특론	Advanced Air Conditioning	3-3-0
	47704	난류이론	Turbulence Theory	3-3-0
	47705	내연기관특론	Advanced Internal Combustion Engines	3-3-0
	47706	다상유동과열전달	Multiphase Flow and Heat Transfer	3-3-0
	47707	대류열 및 물질전달	Convective Heat and Mass Transfer	3-3-0
	47708	물질전달	Mass Transfer	3-3-0
	47709	복사열전달	Radiation Heat Transfer	3-3-0
	47710	분무공학	Atomization & Spray Engineering	3-3-0
	47711	실험열유체공학	Experimental Thermal and Fluids Engineering	3-3-0
	47712	압축성유동	Compressible Flow	3-3-0
	47713	에너지공학특론	Advanced Energy Engineering	3-3-0
	47714	에너지변환시스템	Energy Conversion Systems	3-3-0

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		Korean	English	
	47715	연소공학	Combustion Engineering	3-3-0
	47716	열공학특수연구 1	Special Topics in Thermal Engineering 1	3-3-0
	47717	열공학특수연구 2	Special Topics in Thermal Engineering 2	3-3-0
	47718	열역학특론	Advanced Thermodynamics	3-3-0
	47719	열유체시스템설계	Thermal and Fluids System Design	3-3-0
	47720	열전달특론	Advanced Heat Transfer	3-3-0
	47721	원자력공학	Nuclear Engineering	3-3-0
	47722	유압공학특론	Advanced Fluid Power Control	3-3-0
	47723	유체공학특수연구 1	Special Topics in Fluids Engineering 1	3-3-0
	47724	유체공학특수연구 2	Special Topics in Fluids Engineering 2	3-3-0
	47725	유체기계특론	Advanced Fluid Machinery	3-3-0
	47726	유체역학특론	Advanced Fluid Mechanics	3-3-0
	47727	윤활공학	Tribology	3-3-0
	47728	이상유동론	Theory of Two Phase Flow	3-3-0
	47729	저온공학	Cryogenic Engineering	3-3-0
	47730	전달현상	Transfer Phenomena	3-3-0
	47731	전산열유체공학1	Computational Thermal and Fluids Engineering 1	3-3-0
	47732	전산열유체공학 2	Computational Thermal and Fluids Engineering 2	3-3-0
	47733	점성유동	Viscous Fluid Flow	3-3-0
	47734	첨단에너지특수연구	Special Topics of Advanced Energy	3-3-0
	47735	충격파역학	Shock Wave Theory	3-3-0
	47736	첨단에너지 실무	Practices in Advanced Energy	3-0-6

교과과정 | 교과목소개 | 대학원 교육과정

대학원 교육과정

교과목번호	교과목명 국문	교과목명 영문	학점시수
80199	논문연구1	Thesis Research 1	3-3-0
80200	논문연구2	Thesis Research 2	3-3-0
80201	진동특론	Advanced Vibration	3-3-0
80202	전산기구학	Computational Kinematics	3-3-0
80203	유한요소법	Finite Element Method	3-3-0
80204	구조동력학	Structural Dynamics	3-3-0
80205	차량동력학	Vehicle Dynamics	3-3-0
80206	최적설계	Optimal Design	3-3-0
80207	센서와액츄에이터	Sensor and Actuators	3-3-0
80208	전자제어특론	Advanced Electronic Control	3-3-0
80209	로보틱스	Robotics	3-3-0
80210	지능제어	Intelligent Control	3-3-0
80211	비선형제어	Non-linear Control	3-3-0
80213	인공지능응용	Applied Artifical Intelligence	3-3-0
80214	의공학시스템	Bio-Mechatronics	3-3-0
80215	마이크로시스템	Micro-System	3-3-0
80216	컴퓨터원용설계및생산특론	Advanced CAD/CAM	3-3-0
80217	CNC공작기계기술	CNC Machine Tool Technology	3-3-0
80218	특수가공법	Special Manufacturing Processes	3-3-0
80221	초정밀 가공기술	Ultraprecision Machining Technology	3-3-0
80222	컴퓨터통합시스템	Computer-Intergrated Manufacturing System	3-3-0
80223	메카트로닉스프로젝터	Mechatronics Project	2-0-4
80224	메카트로닉스세미나	Mechatronics Seminar	1-1-0
80225	고등응용수학	Applied Mathematics for Engineering	3-3-0
80226	고등동력학	Advanced Dynamics	3-3-0
80227	고등고체역학	Advanced Strength of Materials	3-3-0
80228	고등자동제어	Advanced Automatic Control	3-3-0
80229	고등수치해석	Advanced Numerical Analysis	3-3-0
80230	선형시스템	Linear System	3-3-0
80231	비젼시스템	Vision System	3-3-0
80232	절삭이론	Machining Theory	3-3-0
80233	메카트로닉스시스템제어	Mechatronics System Control	3-3-0
80234	분사제어시스템	Distributed Control System	3-3-0
80235	VME시스템설계	VME System Design	3-3-0
80236	맨-머신 인터페이스	Man Machine Interface	3-3-0
80237	고급소프트웨어공학	Advanced Software Engineering	3-3-0
80238	적응제어	Adaptive Control	3-3-0

80239	강인제어	Robust Control	3-3-0
80240	정밀측정공학	Precision Metrology	3-3-0
80241	자성체응용메카트로닉스	Applied Mechatronics with Magnetic Materials	3-3-0
80242	회전체동역학	Rotor Dynamics	3-3-0
80243	실시간시스템특론	Advanced Real Time System	3-3-0
80244	마이크로프로세서특론	Advanced Microprocessor System	3-3-0
80245	로봇제어및응용	Robot Control System and its Application	3-3-0
80246	고등DSP및응용	Advanced DSP and its Applications	3-3-0
80247	적응신호처리	Adaptive Signal Processing	3-3-0
80248	메카트로닉스특론	Special Topics in Mechatronics	3-3-0
80249	차량메카트로닉스	Vehicle Mechatronics	3-3-0
80250	메카트로닉스시스템시뮬레이션특론	Advanced Topics in Mechatronics System Simulation	3-3-0
80251	가상현실응용공학	Virtual Reality Based Engineering	3-3-0