Department of Mechanical Engineering

The Department of Precision Mechanical Engineering was established in 1991 at Gangneung National University, with the Master's program in 1998 and the Doctorate program in 2004. The graduate program offers full range of courses leading to the degrees of Master of Science(MS), and Doctor of Philosophy(Ph.D.). The undergraduate program was renamed to Division of Precision Mechanical Engineering, School of Mechanical and Automotive Engineering in 2007 following the merge with Wonju National College. Movement of the department from Gangneung campus to Wonju campus was completed in 2011. Master's program at Graduate School of Industry was established in 2012. Department of Mechanical Engineering is formed in 2020 following the merge with Division of Precision Mechanical & Biomedical Engineering. The Department is committed to nurturing dignified engineers who have the right attitude and good values to fulfill their responsibilities and obligations as a member of society, including the community, by providing the expertise required in a variety of mechanical engineering field for creative professionals capable of contributing to the development of the advanced machinery industry.

Information

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Professor Introduction

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Hong, Jin Seon	Dynamics, Mechanical Vibration	+82-33-760-8722	jshong@gwnu.ac.kr
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Curriculum

Course Code	Course Title	Credit
554.647	Optimal Control Theory	3-0-0
554.648	Estimation Theory	3-0-0
554.649	Digital Control System Design	3-0-0
554.650	Combustion Theory	3-0-0
554.651	Propulsion and Aerodynamics	3-0-0
554.652	Advanced Automotive Engineering	3-0-0
554.653	New Renewable Energy and Eenvironmental Engineering	3-0-0
558.501	Vibration I	3-0-0
558.502	Advanced Computer Aided Manufacturing	3-0-0
558.503	Advanced Thermodynamics	3-0-0
558.504	CAM : Computer Aided Manufacturing	3-0-0
558.505	Advanced Fluid Mechanics	3-0-0

558.506	Advanced Calculus for Mechanical Engineering	3-0-0
558.601	Finite Element Analysis I	3-0-0
558.602	Finite Element Analysis II	3-0-0
558.603	Mechanics of Elastics Materials	3-0-0
558.604	Vibration II	3-0-0
558.605	Theory of Plates and Shells	3-0-0
558.606	Advanced Experimental Stress Analysis	3-0-0
558.607	Computer Aided Design	3-0-0
558.608	Design Optimization	3-0-0
558.609	Vehicle Dynamics	3-0-0
558.610	Mechanical Acoustics	3-0-0
558.611	Gear Dynamics	3-0-0
558.612	Wave Propagation in Structure	3-0-0
558.613	Contact Mechanics	3-0-0
558.614	Advanced Statistical Thermodynamics	3-0-0
558.615	Conduction Heat Transfer	3-0-0
558.616	Convection Heat and Mass Transfer	3-0-0
558.617	Radiation Heat Transfer	3-0-0
558.618	Applied Thermal Engineering	3-0-0
558.619	Cutting Theory	3-0-0
558.620	Special Precision Machining	3-0-0
558.621	Metal Grinding Theory	3-0-0
558.622	NC Machine Tool	3-0-0
558.623	Machine Tool Design	3-0-0
558.624	Manufacturing System and Automation	3-0-0
558.625	Mechanical Behavior of Materials	3-0-0
558.626	Computational Fluid Dynamics	3-0-0
558.627	Boundary Layer Theory	3-0-0
558.628	Theory of Turbulence	3-0-0
558.629	Compressible Fluid Flow	3-0-0
558.630	Advanced Thermofluid Measurement	3-0-0
558.631	Turbomachinery	3-0-0
558.632	Stability of Fluid Flow	3-0-0
558.633	Topics in Industrial Machinery Design	3-0-0
558.634	Topics in Machinery Design	3-0-0
558.635	Topics in Precision Machinery Design	3-0-0
558.636	Topics in Thermal Engineering	3-0-0
558.637	Topics in Heat Transfer	3-0-0

558.638	Topics in Energy Engineering	3-0-0
558.639	Topics in Fluid Engineering	3-0-0
558.640	Advanced Machine Design	3-0-0
558.641	Advanced Computer Aided Design	3-0-0
558.642	Advanced Precision Machining	3-0-0
558.643	Instrumentation for Measurement Analysis and Control	3-0-0
558.644	Machine Condition Diagnostics	3-0-0
558.645	Dynamic System Control	3-0-0
558.646	Linear System Theory	3-0-0
558.801	M.S. Thesis Research I	3-0-0
558.802	M.S.Thesis Research II	3-0-0
558.803	Ph.D. Thesis Research I	3-0-0
558.804	Ph.D. Thesis Research II	3-0-0