

# Curriculum for the Department of Mechanical Engineering

## Master Graduate Program For 2022

Apr 28, 2022 Passed by the Departmental Curriculum Committee at its 2rd meeting, Spring semester, Academic Year 2021-22  
 Apr 28, 2022 Passed by the Departmental Affairs Meeting at its 4th meeting, Spring semester, Academic Year 2021-22  
 Approved at the 2rd College Curriculum Meeting of academic year 110, on Jun 23, 2022  
 Approved at the 3th University Curriculum Meeting of academic year 111, on May 3, 2023

Semester (Credit /hour)	Fall		Spring	
	Courses	Credit/hour	Courses	Credit/hour
Required courses (0/2)	Treatise	0/1	Treatise	0/1
Elective courses (3/3) (Adjustments will be made based on the actual start of classes)	Failure Analysis of Materials	3/3	Mechanical Behaviors of Materials	3/3
	Vibration	3/3	Finite Element Method	3/3
	Automatic Optical Inspection	3/3	Computer Aided Structure Design and Analysis	3/3
	Precision Machine Design	3/3	Principles & Applications of Gears	3/3
	Introduction to Computational Fluid Dynamics and Practice	3/3	Green Energy Engineering	3/3
	Micro Machine System	3/3	Renewable Energy	3/3
	Hydraulic and Compressible Flow Turbomachines	3/3	Intelligent Machinery and Manufacturing	3/3
	Advanced 3D Printer Technology	3/3	Thermal Fluid Measurement	3/3
	Engineering Statistics and Probability	3/3	Engineering Optimum Design	3/3
	Advanced Composite Structures	3/3	Advanced Mechanics of Materials	3/3
	Composite structural mechanics	3/3	Sensor Principle and Application	3/3
	Internships	3/3	Satellite Navigation for Aviation	3/3
Application Programming for Engineers	3/3			

- ✧ Graduation Credits: 24 credits. (Including two semesters of Thesis Seminar) to meet graduation qualifications.
- ✧ For other regulations, please refer to the regulations for the master's program of the Department of Mechanical Engineeri