

Department of Materials Engineering

The material engineering department was established in 1989 in the undergraduate program, the master's program in 1994 and the Ph.D. program in 2001. In this department, as a study of ceramic structural materials and functional materials requiring special functions, the purpose is to study materials underlying the development of high-tech industries, and to foster creative engineers.

Information

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Professor Introduction

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Curriculum

Course Code	Course Title	Credit
555.502	Advanced Ceramic Processing	3-3-0
555.503	Interfacial Penomena and Sintering Theory	3-3-0
555.506	Advanced Functional Ceramic Materials	3-3-0
555.510	Advanced Compound Semiconductor	3-3-0
555.511	Advanced Nano Thin Film Processing	3-3-0
555.512	Advanced Energy Materials & Systems	3-3-0
555.501	Advanced Sensor Engineering	3-3-0
555.507	Amorphous Engineering	3-3-0
555.509	Advanced Manufacturing Process	3-3-0
555.601	Dielectric Materials	3-3-0
555.604	Applied Thermodynamics of Materials	3-3-0
555.606	Special Topics in Ceramics	3-3-0
555.607	Interpretation of Crystal Structure	3-3-0
555.608	Advanced Composite Materials	3-3-0
555.609	Physical Properties of Materials	3-3-0
555.616	Functional Materials	3-3-0
555.623	Ceramic Powder Materials & Processing	3-3-0
555.626	Advanced Electron Microscope Analysis	3-3-0
555.631	Plasma Ceramics	3-3-0
555.632	Advanced Nano Engineering I	3-3-0
555.633	High Temperature Ceramic Materials	3-3-0
555.634	Advanced Electronic Materials I	3-3-0
555.636	Bio Materials Engineering	3-3-0
555.637	Advanced Functional Materials Design	3-3-0
555.638	Advanced Optical Analysis	3-3-0
555.639	Quantum Well Semiconducting Materials	3-3-0
555.640	Advanced Surface Analysis of Materials	3-3-0
555.641	Advanced Electronic Properties of Materials	3-3-0
555.642	Advanced Optoelectronic Materials	3-3-0
555.643	Advanced Sol-Gel Processing I	3-3-0
555.644	Advanced Sol-Gel ProcessingII	3-3-0
555.645	Environmental Materials Engineering	3-3-0
555.646	Micro Mechanics & Failure Mechanism of Ceramic	3-3-0
555.647	Special Topics in Ceramic Engineering I	3-3-0
555.648	Special Topics in Ceramic EngineeringII	3-3-0

555.649	Special Topics in Ceramic EngineeringⅢ	3-3-0
555.701	Solid Defect Structure	3-3-0
555.702	Advanced Ceramic Processing Ⅱ	3-3-0
555.704	Special Topics on Interfacial Engineering	3-3-0
555.720	Ceramic thermo-physical chemistry	3-3-0
555.705	Special Topics on Structural Materials	3-3-0
555.707	Advanced Ceramic Characterization	3-3-0
555.712	Semiconductor Process	3-3-0
555.716	Advanced Surface Engineering	3-3-0
555.717	Advanced Electronic MaterialsⅡ	3-3-0
555.718	Advanced Semiconductive Ceramics	3-3-0
555.719	Advanced Nano Engineering I	3-3-0