

Department of Advanced Materials Engineering

The Advanced Metal and Materials Engineering is a discipline that is based on application engineering applied to various fields, such as element parts or material itself, by preparation, processing, and manufacturing of material utilizing basic science such as physics and chemistry.

Information

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Professor Introduction

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Curriculum

Course Code	Course Title	Credit
562.501	Advanced Thermodynamics of Metals	3-3-0
562.502	Advanced Theory of Strength of Metals	3-3-0
562.503	Advanced Phase Transformation in Metals	3-3-0
562.601	Advanced Metal-Ceramic Joining	3-3-0
562.602	Strengthening Mechanism	3-3-0
562.603	Theory of Dislocation	3-3-0
562.604	Heat Treatment of Metals	3-3-0
562.605	Advanced X-ray Metallography	3-3-0
562.606	Diffusion in Metals	3-3-0
562.607	Advanced Bio-Materials	3-3-0
562.608	Advanced Thin Film Materials	3-3-0
562.609	Advanced Materials in Extreme Situation	3-3-0
562.61	Kinetic Processes in Materials	3-3-0
562.611	Alloy and Microstructural Design	3-3-0
562.612	Advanced Metal Castings	3-3-0
562.613	Advanced Welding Metallurgy	3-3-0
562.614	Advanced Theory of Metallic Corrosion	3-3-0
562.615	Statistical Thermodynamics of Solids	3-3-0
562.616	Advanced Solidification Processing	3-3-0
562.617	Failure Analysis of Metals	3-3-0
562.618	Plasticity Theory in Metals	3-3-0
562.619	Computing Application of Metallic process	3-3-0
562.62	Texture in Materials	3-3-0
562.621	High-Temperature Materials	3-3-0
562.622	Advanced Electronic Materials	3-3-0
562.623	Electron Microscopy	3-3-0
562.624	Advanced Materials Properties	3-3-0
562.625	Electronic Theory of Metals	3-3-0
562.626	Magnetic Materials	3-3-0
562.627	Nano Materials	3-3-0
562.628	Nano Technologies	3-3-0
562.63	Advanced Surface Analysis	3-3-0
562.631	Advanced Micro Electro Mechanical Systems	3-3-0
562.632	Environmental Materials	3-3-0
562.633	Characterization of Materials	3-3-0
562.634	Materials and Processes Selection	3-3-0