

Curriculum Planning

Advanced Professional Courses

Professional Basic Courses

Mechanical Properties of Materials(Elective/3)

Solid state thermodynamics (Elective/3)

Graduate Seminar (Obligatory/ 2)

Advanced Materials Science (Elective/3)

Physical Metallurgy (Elective/3)

Phase Transformation (Elective/3)

Material Testing and Analysis Courses

Crystallography and Diffraction (Elective/3)

Interface structure and Properties of crystals(Elective/3)

Materials Characterization (Elective/3)

Electron Microscopy (Elective/3)

Magnetic Materials and Process

Solid State Physics (Elective / 3)

Heat Treatment (Elective/ 3)

Magnetic Materials (Elective / 3)

Introduction to Semiconductor Manufacturing Technology (Elective / 3)

Introduction to Spintronics (Elective / 3)

Thin Films Technology (Elective / 3)

Transcranial Magnetic Stimulation & Electroencephalography Physical Principles (Elective / 3)

Green Energy Materials and Process

Energy Science and Technology (Elective / 3)

Unit Operation Practice of Green Energy (Elective / 2)

Special Lecture on Energy storage and Energy Saving Materials (Elective/ 3)

Special Topics on Transparent Electrodes(Elective / 3)

Practicum on Green Energy and Materials Technology (Elective / 3)

Advanced Nanomaterials and Their Applications in Green Energy (Elective/ 3)

Other Professional Courses

Applied Numerical Analysis in Material Science (Elective / 3)

Practicums in Material Sciences (Elective / 3)

Practicum for plastic materials and big data analysis for molding simulation (Elective / 3)