



This lab is a practical lab to train hands-on skill for Materials Science Program's undergraduate. The lab is equipped with sophisticated equipments to fulfill the learning outcomes in courses of Materials Science Laboratory Level 1 and Materials Science Laboratory Level 2. Typical experimental concept design are emphasized on the aspects of materials science that composed of optical-, catalysis-, electronics-, mechanical- and quantum-properties. Additionally, the students also will get exposed to the techniques of materials synthesis and analysis by using variety of analytical scientific equipments cum programming techniques.



Students are attached to research labs carrying out mini-projects on experiments in material science in characterizing electrical, optical, magnetic, mechanical, thermal properties of photonic materials, smart materials electrochemistry, polymer composite, semiconductor materials organic electronics , devices and advanced material processing while learning to use various characterizing equipment such as scanning electron microscopy, micro-Raman spectroscopy, UV-VIS-NIR spectroscopy, Light microscopy, x-ray diffraction, scanning probe microscopy , scanning electron microscopy, transmission electron microscopy, auger electron spectroscopy, fast Fourier transform infrared spectroscopy, four-point probe, thermogravimetry, differential scanning calorimetry, electrical impedance spectroscopy and simple material process technology. Students will be exposed with Labview programming



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