

Lab Facilities

Lab Name : Material Characterization Engineering Lab
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No.	Equipment	Description
1	High Performance Liquid Chromatography (HPLC)	For separation and identification of a liquid compound by high resolution chromatography technique
2	UV Spectrophotometer 1 & 2	For analysis of compound by absorption and beam transmission in a range of observed light and UV light
3	Ion Chromatography	For separation of the ion and polar molecules analysis
4	Dynamic Mechanical Analyser (DMA)	For mechanical properties and flow behavior of materials measurement that can be monitored as a function of temperature or time
5	Atomic Absorption Spectrophotometer	For metal content in a mixture identification by using combustion furnace
6	Thermo Gravimetric Analysis (TGA)	For measurement of weight changes of a sample base on thermal stability property
7	Differential Scanning Calorimetry (DSC)	For measurement of heat flow into or out of a sample base on thermal stability property
8	Fourier transform spectroscopy FTIR	A measurement technique whereby spectra are collected based on measurements of the temporal coherence of a radiative source
9	Fast Performance Liquid Chromatography (FPLC)	For quick separations of liquid which can withstand high pressure