

# High Resolution Raman Spectroscopy



## *High Resolution Raman Spectrometer at Center for Nanoscience & Nanotechnology*

Raman spectroscopy (named after Sir C. V. Raman) is a spectroscopic technique based on inelastic scattering of monochromatic light, usually from a laser source. Inelastic scattering means that the frequency of photons in monochromatic light changes upon interaction with a sample. Photons of the laser light are absorbed by the sample and then reemitted. Frequency of the reemitted photons is shifted up or down in comparison with original monochromatic frequency, which is called the Raman effect. This shift provides information about vibrational, rotational and other low frequency transitions in molecules. Raman spectroscopy can be used to study solid, liquid and gaseous samples.

<b>Company</b>	LabRAM
<b>Model Number</b>	HR800, JY
<b>Incharge</b>	Prof. S.S. Islam, Dr. Prabhash Mishra
<b>Contact Number</b>	+91-9716603329
<b>E-mail Id</b>	<a href="mailto:jamiananofabrication@gmail.com">jamiananofabrication@gmail.com</a>
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