

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Earth Science)
Semester: III
Syllabus with Effect from: June - 2014

Paper Code: PT03CESC04	Total Credit: 4
Title Of Paper: Experimental Methods - III	

Unit	Description in Detail	Weightage (%)
	Study of elements of symmetry of normal classes of crystal systems	
	To study the relationship between planes and directions in crystals on a 2D piece of paper using Stereographic projection technique	
	A lab involving XRD diffraction of a powder sample to be run by students themselves and indexing of the diffraction pattern	
	Study of physical properties of minerals in hand specimen	
	Study of optical identification of common rock forming minerals	
	Megascope and microscopic study (textural and mineralogical) of the igneous rocks	
	Identification of minerals with chemical and crystallographic data and use of associated softwares	
	Study of the characteristics of klystron tube and determine the electronic tuning range and also study the communications by using microwave bench	
	To study the V-I characteristic of Gunn Diode	
	The electromagnetic Spectrum –to identify the relationship between wavelength and energy within the electromagnetic spectrum.	
	Motion of the moon & Life cycle of Stars – to learn about the shape, location and rate movement of the Moons apparent path	
	Sea Floor Spreading – using the age and positions of rock formations associated with the Mid-Atlantic Ridge to support the hypothesis of sea floor spreading	

