

**DEPARTMENT OF GEOGRAPHY
PRESIDENCY UNIVERSITY**

Detailed Syllabus for GenEd Course being offered by Department of Geography for Second Semester

Paper Name: Basic Geoinformatics

Course No.: GEOG 0431

Paper Type: Practical

Credit: 04

Unit I: Theoretical Basis of a GIS

Definitions, Historical Development, Components of a GIS

Types of Geospatial datasets: Raster, Vector, Surface - Attributes and Functionality

Unit II: Applications of GIS

Nature of GIS Applications

Studies on Land cover and Land use Change in Urban Areas

Mapping and Predicting Environmental Hazards

Detecting and Analysing Tourism Landscape Changes

Prospects in GIS

Unit III: RS and GPS

Remote Sensing - Fundamentals of EMR and Imaging Techniques, RS Platform types and Sensor Resolutions

India's Space Programme - Satellites, Data products and their Applications

GPS - Principles and Components

Faculty teaching this Module:

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