AN INTRODUCTION TO QGIS AND SPATIAL DATA ANALYSIS

Workshop date: 30 September and 1 October 2024.
Venue: FERAL Bengaluru Office

Tentative Schedule

Day 1. September 30th Monday

09:30–13:00

Introduction to Spatial Data, Types of Spatial Data, Projections and Coordinate Reference Systems.

Introduction to QGIS
       Configuration and setup
Importing data from spreadsheets
Visualisation of data – symbology, size, transparency, labels
Saving the Vector data

Lunch (13:00–14:00)

14:00 am–16:30 pm

Georeferencing
Digitisation: Creating vector layers, editing the layer

Vector Data Processing and Analysis
       Apply filters
       Attribute data management – Field Calculator
       Attribute joining
       Geopreocessing, Geometry tools

Day 2. October 1st Tuesday

09:30–13:00

Vector Data Processing and Analysis
       Analysis – Grids, Random and uniform points, Point count, Distance Matrix
       Running Spatial Queries

Use of plugins and adding Web layers (Open layers, Bing Maps, QuickOSM etc) onto QGIS

Introduction to Raster Data
       Visualisation of Satellite Data and Analysis (True and False Color Composites)
       Raster Calculator and Developing Vegetation Indices
Zonal Statistics

Lunch (13:00 – 14:00 pm)

14:00 pm to 16:00 pm
Developing Publishable Quality Maps