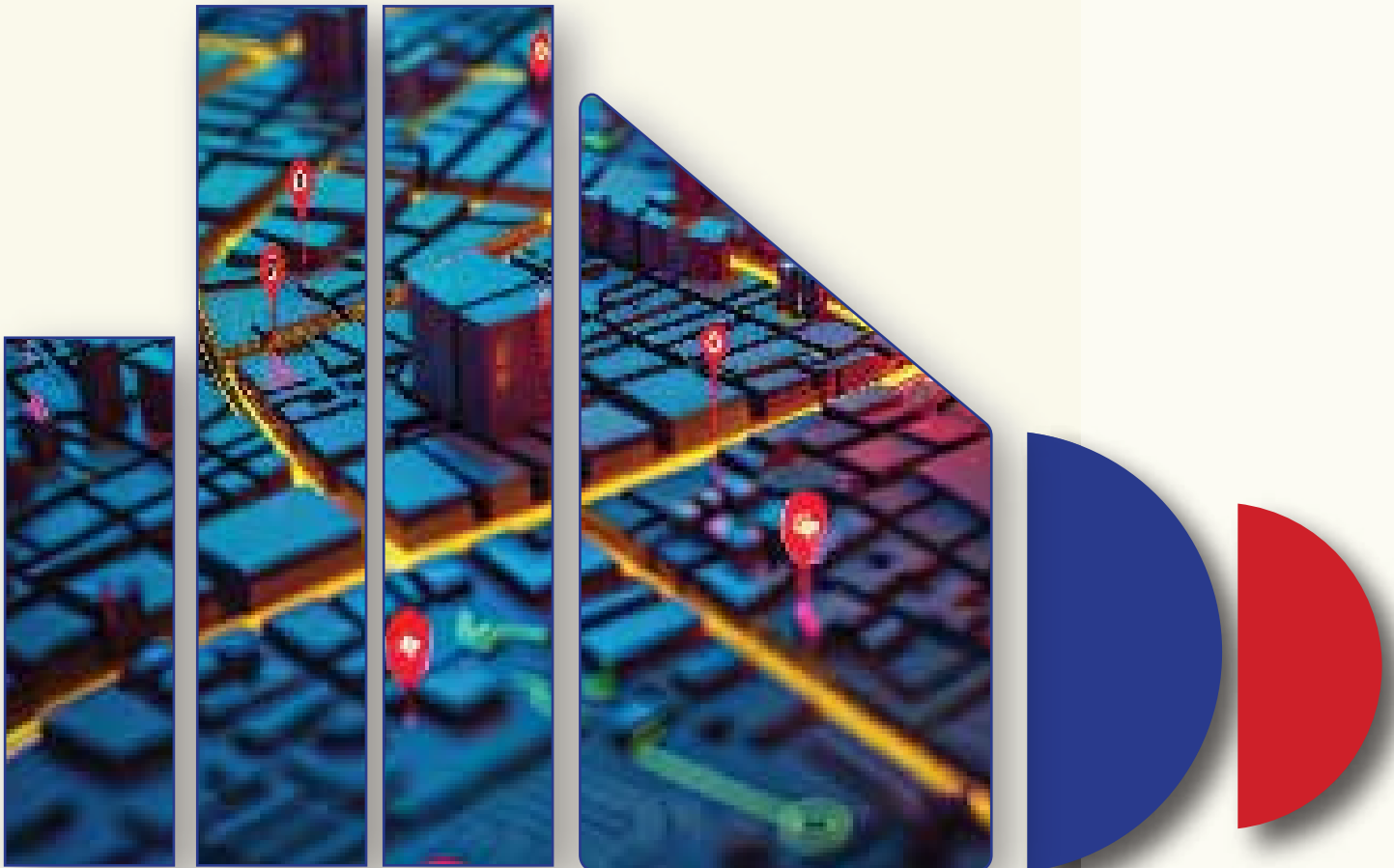




Elevate Your Career with QGIS Software in GIS and Spatial Analysis



Contact Us

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MODULES OFFERED

SECTION 1

MODULE 1

Introduction of GIS

1. Qgis Software Interface
2. Coordinate System
3. Applications

MODULE 2

Georeferencing

1. Georeferencing the Toposheet
2. Adding Control Points
3. Transformations
4. Adjusting and Checking Accuracy

MODULE 3

Introduction to Google earth Pro

1. Interface overview
2. Adding and editing placemarks (point features)
3. Drawing paths (line features)
4. Creating polygons
5. Measurement tools
6. Importing GIS data (e.g., shapefiles, CSV files)
7. Overlaying custom maps (image overlays)
8. Exporting KML files

MODULES OFFERED

SECTION 1

MODULE 4

Create/ Modify Shapefile

1. Creating Shapefile
2. Editing Shapefile
3. Saving and exporting

MODULE 5

Create/ Modify Geopackage

1. Creating Geopackage
2. Adding Datasets
3. Editing Geopackage

MODULE 6

Digitisation

1. Digitisation of Point , Line & Polygon Layer
2. Creating Vector files and Data Collection
3. Advance Digitization
4. Snapping tool

MODULE 7

Labelling

1. Labeling Features
2. Advanced Labeling Techniques

MODULES OFFERED

SECTION 1

MODULE 8

Symbology

1. Basic Symbology
2. Classified Symbology
3. Proportional and Graduated Symbols

MODULE 9

Working With Attribute Table

1. Attribute Table Creation
2. Editing Attributes
3. Join Table
4. Data types

MODULE 10

Field Calculator

1. Automatic Field Update
2. Field Data Handling
3. Multiple Field Calculation

MODULE 11

Geometric Calculator

1. Calculating Areas and Lengths

MODULES OFFERED

SECTION 1

MODULE 12

Querying

1. Attribute Queries
2. Spatial Queries

MODULE 13

Geoprocessing

1. Clip
2. Buffer
3. Union
4. Dissolve

MODULE 14

Map Layout and Printing

MODULE 15

Plugins

1. Plugin for creating Html
2. Plugin for adding Latitude and Longitude
3. Plugin For 3D Map View
4. HCMGIS
5. SRTM Downloader

MODULE 1

What is Remote Sensing?

1. Definition
2. Applications

MODULE 2

Satellites and Their Applications

1. Landsat
2. Sentinel
3. MODIS

MODULE 3

Remote Sensing Sensors

1. Active Sensors
2. Passive Sensors

MODULE 4

Electromagnetic Spectrum and Bands

1. Electromagnetic spectrum overview
2. What Are Bands?
3. Role of different bands in remote sensing
4. Visible Bands
5. Infrared Bands
6. Microwave Bands

MODULE 5

Band combinations

1. True color composite
2. False color composite
3. Infrared Vegetation analysis
4. Urban analysis
5. Land / water

MODULE 6

Composite Bands

MODULE 7

Introduction to USGS Earth Explorer

1. Find ROI
2. Filter Different types of Dataset
3. Downloading DEM and Landsat data

MODULE 8

Working with Satellite Data

MODULE 9

Downloading DEM and Landsat data

MODULE 10

Surface Analysis from DEM

1. Slope
2. Aspect
3. Hillshade
4. Contour generation

MODULE 11

Hydrological Analysis

1. Stream creation
2. Create Catchment
3. Define Outlet

MODULE 12

Vegetation and Water Indices

1. NDVI
2. NDWI
3. SAVI

MODULE 13

Reclassifying Indices

1. Export water bodies as .shp
2. Export vegetation as .shp

MODULE 14

Classification Techniques

1. Supervised Classification
2. Unsupervised Classification
3. Post-classification refinement
4. Algorithm-based grouping (e.g., K-means)

COURSE FEES

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