MapHive

- Student & Community GIS Support via MapHive
- We also run MapHive, a GIS-based micro-business:
- Project Help · Map Creation · Dissertation Maps
- Students, Researchers, & Local Bodies Welcome

Contact Us

+91 80753 42721

www.sncwkollam.org

geography@sncwkollam.org

S.N.college for women
Kollam ,Kerala

Inauguration

Course Inauguration:

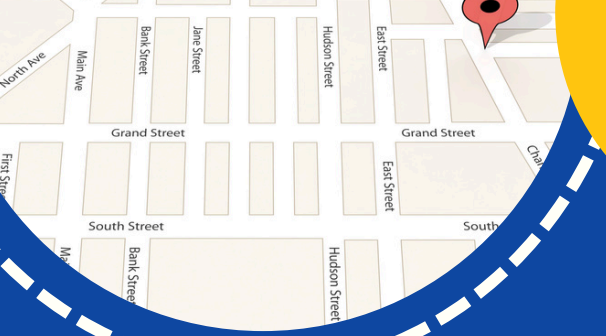
This course was proudly inaugurated by **Shri Vellapally Natesan**, emphasizing its role in promoting inclusive, skill-based learning in geoscience

Certificate Course in Remote Sensing ,GIS & Python Programming

*Duration **3-months** | Basic level | min: 30 hr*

"Foundations of Geospatial Analysis with QGIS & Python"

In Collaboration with:
Department of Geography,
Sree Narayana College for Women, Kollam
*& **Heft Research Hub Pvt Ltd,***
Trivandrum



Why Enroll ?

- Primarily designed for students in Geology, Geography, Civil Engineering, and Environmental Science, However, anyone with relevant experience or a strong interest in geospatial analysis is welcome to join, regardless of academic background.
- Hands-on GIS and Python from scratch
- Highly practical: Suitable for research, academic, and professional use
- Faculty with 6+ years of industry & teaching experience
- Small batch size (**15 seats**) for personalized mentoring

Benefits:

- Government & private job utility
- Useful for academic dissertation & research
- Pathway to freelance GIS projects or startups
- Certification from both institutions
- Placement & internship guidance

Syllabus at a Glance:

QGIS

Module 1: QGIS Practical
- Installing QGIS, projections, digitizing
- Georeferencing maps
- Attribute data, topology, layouts
- Raster/vector analysis, DEMs
- OpenStreetMap integration

Module 2: Remote Sensing
- NDVI, NDWI, supervised & unsupervised classification
- Image enhancement, band stacking
- Accuracy assessment

Module 3: Python + JupyterLab
- Python basics, loops, functions
- Pandas, GeoPandas, Geopy, RasterIO
- Automating spatial workflows

pandas NumPy GeoPy Rasterio GeoPandas

For the complete syllabus with detailed modules, please click here to download:
https://drive.google.com/file/d/1eIdtqowC8uirE2oLUQmQozRXVG3Sl5xb/view?usp=drive_link

Projects

Student Projects:
- Landslide Hazard Mapping in Kollam
- Urban Heat Island Analysis using RS & GIS
- Morphometric Analysis of a River

Placement

Adheena A R –
Data Processor, Geoservices Maritime Pvt. Ltd., Mumbai

Ameena Rahim
Field Engineer (GIS),
ULTS, Kozhikode

Hemand A
Geophysicist,
Celestial Horizon, Haryana