For Registration

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Pricing for non-resident participants: ₹7,500/- for non-students and ₹4,500/- for full time students.

Pricing for resident participants: ₹10,000/- for non-students and ₹7,000/- for full time students. Includes boarding and lodging.
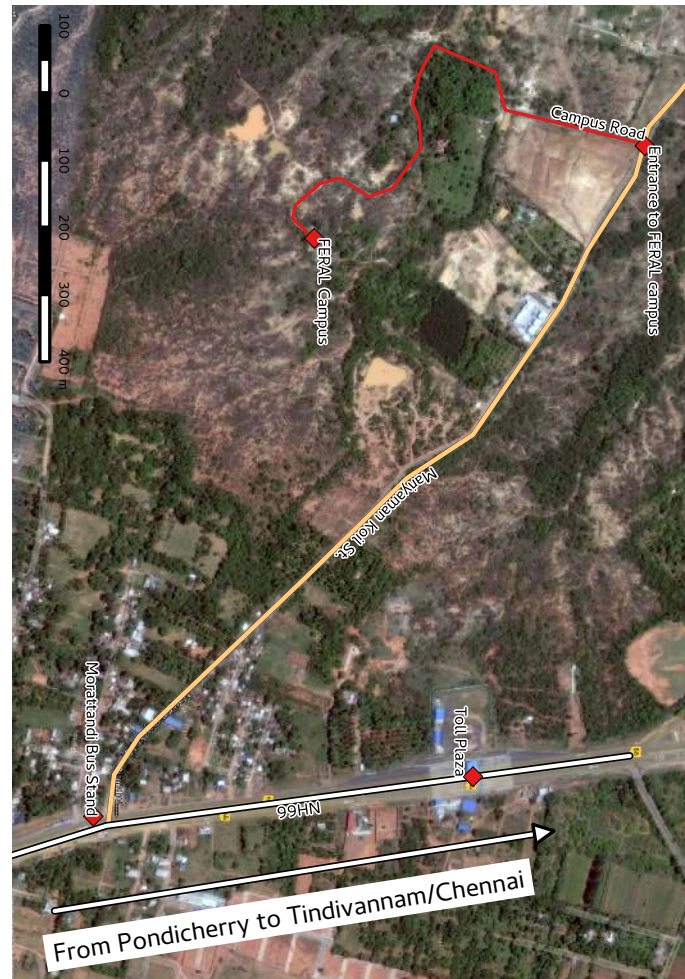
Travel All participants need to make their own travel arrangements and arrangements for boarding and lodging if you're not staying at the campus.

Discount for students: Full time students in recognised institutions can avail the student discount. You must present a valid ID-card from your institute during registration. Part time or correspondence students are not entitled to this discount.

Check in/out: Check into the campus by 18:00 hrs on the day before the commencement of the course, or between 8am and 9am on the the day of the course. Workshop concludes by 16:30 hrs. on the final day. Resident participants may stay an additional night, however will need to vacate by 10am the next morning.

Payments/Cancellations: Full payment for the course should be made a week before the course starts. A full re-fund for cancellations on or before three days from the commencement of the course. ₹2,500.00 will be deducted for cancellations made after this date.

NOTE: There will be no refund made for persons dropping out of the course after it starts.

Directions:
Take the NH 66 (JIPMER exit towards Tindivannam).
Drive about 4km and take the 2nd left just after the Morattandi bus stand (before the toll plaza).
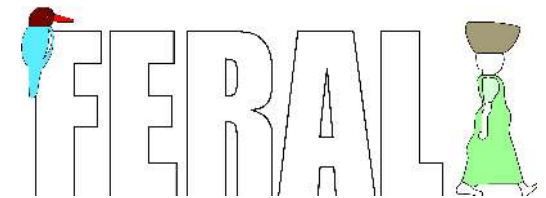*Drive down 2km along the Mariyamman street towards Tiruchitrambalam and take left at the gate to the Dera farm.*
Link to the road map on GoogleMaps

Introduction to GIS and GPS Using Quantum GIS

17th to 19th June, 2016
at the FERAL Campus
170/3, Morattandi, Auroville Post
Vanur Tk., Villupuram Dt.,
Tamil Nadu - 605101

Introduction

Geographical Information Systems (GIS) and Global Positioning Systems (GPS) are essential tools for a range of applications across disciplines. Unfortunately, there are not many avenues outside a formal degree, to get a basic grounding in GIS and the use of GPS for navigation and spatially explicit data collection. This workshop is an attempt to fill in this gap through an intense three day, hands on workshop.

Quantum GIS is among the most popular free and open source GIS software. It is cross platform and easy to learn. Thanks to its active developers and contributors, the capabilities of QGIS match or exceed many commercial GIS software.

The Workshop

This is an intense hands-on workshop comprised of tutorials and exercises for persons new to GIS and GPS. The team conducting the workshop has over a decade of experience in using and teaching the subject. Materials and tutorials being used for this course and other courses conducted by FERAL are available for free on the FERAL course management site.

Given that GIS and GPS is a vast topic, the number of topics we will cover depend on the pace at which participants are able to maintain. In a typical workshop we cover the following:

1. Import, view, edit and manage spatially explicit data in a number of vector formats.

2. Manage attributes and data stored in tables.

3. Georeference maps and imageries.

4. Digitise maps.

5. Analyse and manipulate vector data using geo-processing routines, database features, research and analysis tools.

6. Use QGIS along with GPS units and GPS enabled smartphones to collect waypoints and navigate.

7. Make publication quality maps.

If time permits the following additional topics will be covered:

1. Pair QGIS with a popular on-line form design and data collection system - EpiCollect.net, to collect and map spatially explicit data on GPS equipped smart phones.

2. Convert between different data formats and upload data to web based applications such as OpenStreetMap or GoogleMaps.

What is expected from you

1. Bring a relatively powerful laptop with at least 100GB of free disk space and preferably 4 GB or more of RAM. Please note: net-books are not suitable for GIS/RS applications.

2. Bring your GPS and cable - if you have one.

3. Install the latest stable version of Quantum GIS and GPSBabel.

4. If you have an Android or iOS based phone or tablet with a GPS, please install the EpiCollect package.

5. Bring a digital mouse and mouse-pad, touch-pads are not suitable for GIS work.

6. We expect participants to be familiar with basic computer usage.

Facilities being provided

We have modest boarding and lodging facilities at FERAL, five kilometers from Pondicherry. Please note that the campus is surrounded by scrub and forests. We suggest you visit our web page introducing the campus ahead of your visit

Tentative Schedule.

Date/Day	Session 1	Session 2	Session 3	Session 4
17th – Friday 10:00 to 17:00	Registration Participant introduction.	The QGIS menu. Drawing with QGIS.	Types of vector objects. Georeferencing a scanned cadastral map.	Georeferencing a scanned topo-sheet. Georeferencing an image.
18th – Saturday 09:30 to 17:00	Map projections. Digitising.	Managing attributes. Basic geo-processing.	Importing a CSV file into QGIS and exporting to different formats.	Thematic mapping. Using the QGIS field calculator.
19th – Sunday 09:30: 16:30	Using a GPS for collecting waypoints and navigation.	Using EpiCollect. Converting EpiCollect data to a vector.	Making maps for publication.	Course evaluation and wrap up.