continuing education programme
March 9-13, 2020

@Azim Premji University, PES Campus,
Hosur Road, Bangalore

Azim Premji
University
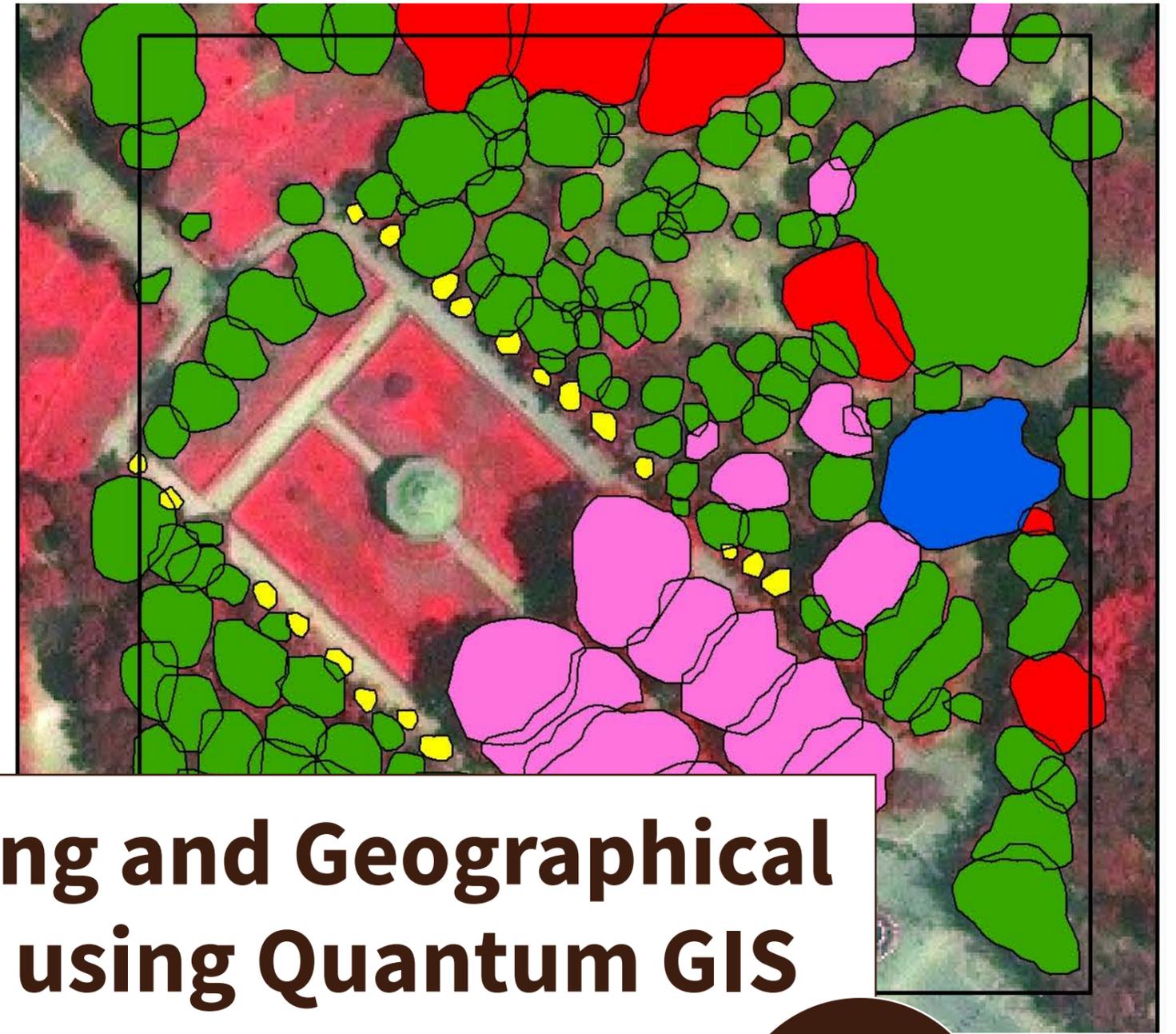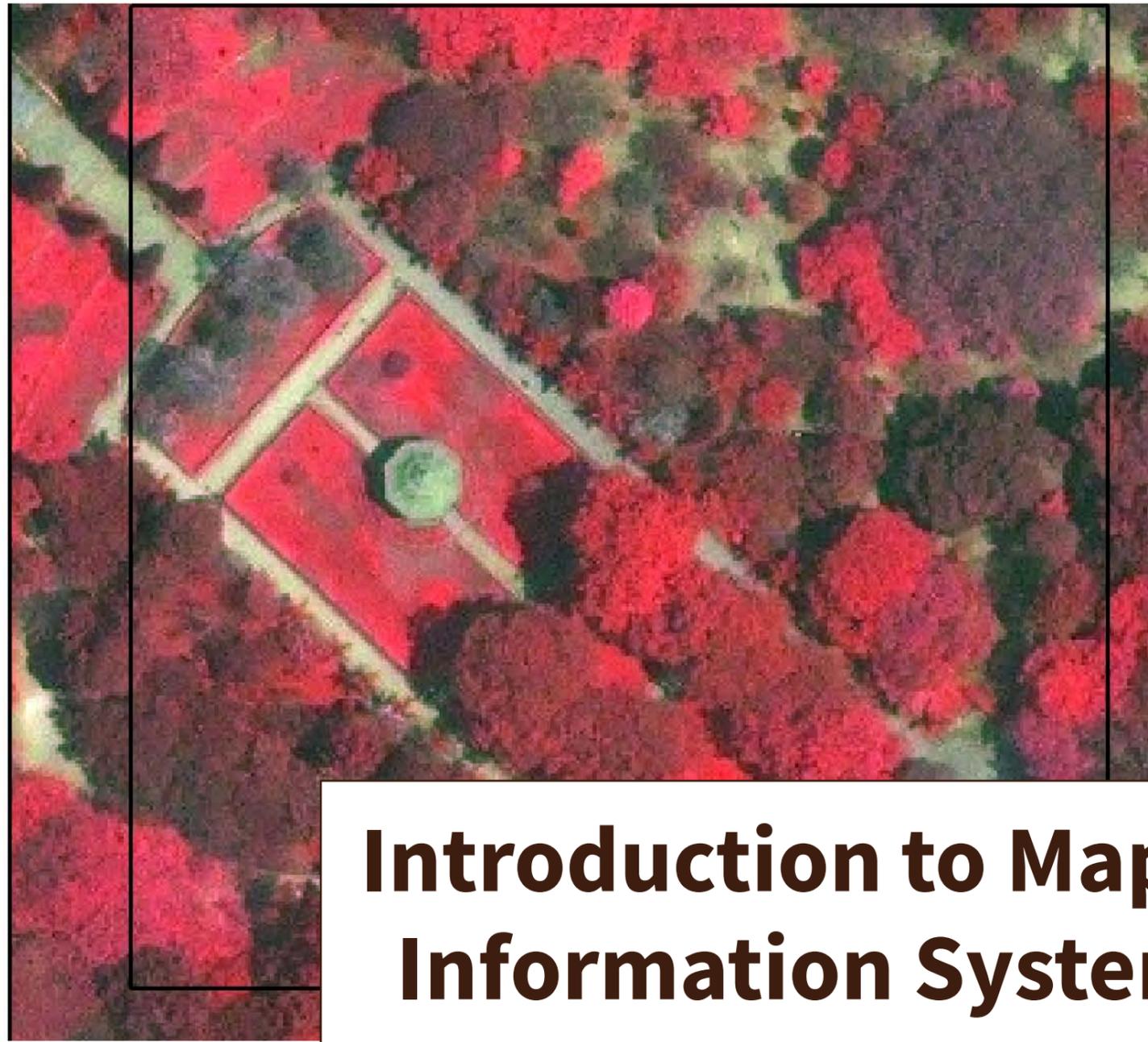
Introduction to Mapping and Geographical Information Systems using Quantum GIS

Five day course for development, conservation and education practitioners

Apply by
Feb 9, 2020

Why this course?

In recent years, geographic information systems (GIS) and mapping techniques have become very important for understanding issues related to research and practice in development, education, conservation, policy and related areas. GIS is a highly sought-after methodology that development and conservation practice is increasingly putting to use.

This course aims to provide practitioners, educators, researchers, and others working in the areas mentioned above with basic mapping and GIS skills, via exposure to a free, open-source GIS platform (Quantum GIS) which is available to all.

What will you learn?

On successful completion of the course, participants will be able to:

- Understand the basic principles of Geographical Information Systems (GIS).

- Appreciate how GIS can help to understand issues related to broad areas of education, development and conservation.

- Gain familiarity with using Quantum GIS (QGIS) – a state-of-the-art free, open source GIS software.

- Create maps using GIS, and relate these to issues of conservation, development, and other areas of research and practice.

Who should attend?

Primarily aimed at development and conservation practitioners, from NGOs. In addition, educators, researchers and PhD students may find the course interesting.

Pedagogy

The course is intended to be hands-on, focused on learning via doing in the lab, on the computer. In-class exercise datasets will be used for initial practice. Participants will also work on individual locations of their choice for additional practice, relating in-class work to their area and themes of interest.

Certificate of Participation

The participants will be awarded a certificate of participation on successful completion of five days.

Session Details

Monday / March 9, 2020

- Participant introductions.
- Introduction to GIS.
- Exploring QGIS software.
- Exploring Google Earth.
- Geometric registration.

Tuesday / March 10, 2020

- Introduction to Vector Data – points, lines, polygons.
- Digitization.
- Working on individual projects – geometric registration.

Wednesday / March 11, 2020

- Introduction to Symbology and Attributes.
- Labeling the digitized layers.
- Creating a map using Map Composer.
- Individual projects - Digitization of points, lines and polygons.

Thursday / March 12, 2020

- Importing and working with external datasets (e.g. elevation, rivers and roads, demography).
- Querying and basic GIS analysis.
- Individual projects - adding external layers, labelling, map making.

Friday / March 13, 2020

- Presentation of maps and group discussion.
- Closing session.
- Wrap-up, followed by group reflection, written feedback, and presentation of certificates.

* All the sessions will start at 9:30 am and end by 5pm.

Course Directors

Harini Nagendra

Harini Nagendra teaches sustainability at Azim Premji University. She has over 25 years of experience working on remote sensing and GIS for research on ecology, conservation and urban sustainability. Her research focuses on land cover change in forests and cities across South Asia as well as in other parts of the world. She has written over 150 research papers, and supervised a number of PhD students working on these topics.

Enakshi Bhar

Enakshi Bhar is an Electrical Engineer from Gujarat University and a Masters in Geomatics from CEPT University, Ahmedabad. She has 6 years of experience in Geographical Information Systems and Remote Sensing in CRDU, CEPT University, Ahmedabad and in Indian Institute of Science, Bangalore, respectively. She joined Azim Premji University in 2016 and currently works as a Mapping Lab Coordinator.

Course Fee

- General: Rs. 5,900/- (all taxes included).
- Field partner organisations of University: Rs. 1,180/- (all taxes included)
- Partial fee waivers available for deserving research scholars

Accommodation and other costs:

The course fee does not include accommodation. The university can arrange accommodatio for 06 days for additional payment of Rs. 7080/- (all taxes included). Request for the same has to be made at time of application. Alternatively, participants can make their arrangements.

All other costs, such as travel to and from Bangalore, local travel, stay, breakfast and dinner, must be borne by participants.

Note: This course will be conducted at the university computer lab, so the participants are not required to bring their laptops.

For more information, email at gis.ced@apu.edu.in

About Azim Premji University

Azim Premji University was established as a not for- profit, private university under the Azim Premji University Act 2010. The University has a clear social purpose of working towards a just, equitable, humane and sustainable society. Azim Premji University plays a critical role in developing new talent, building capacity in existing functionaries and creating domain knowledge in the fields of education and in development. The Azim Premji Foundation is the sponsor of the University. The roots of Azim Premji University lie in the learning and experience of a decade of work in elementary education by Azim Premji Foundation. The University is one of the Foundation's key responses to the challenges confronting the education and development sectors in India. The University offers Bachelors' degrees in Physics, Biology, Maths, Economics and Humanities and Masters' degrees in Education, Development, Public Policy and Governance and LLM (Law and Development).
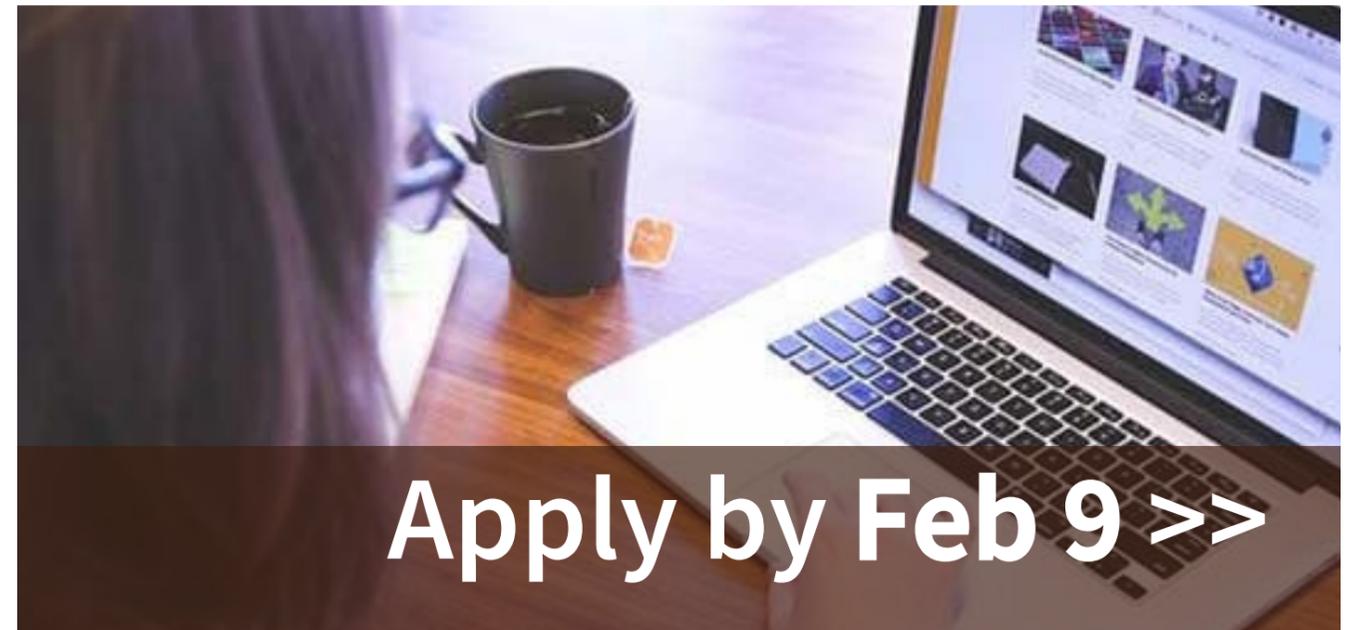
Apply by Feb 9 >>

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