About Course

The IIRS outreach programme, which started in 2007 with 12 universities/ institutions has now grown substantially. Currently, about 930 universities / institutions spread across India are networked with IIRS. The online workshop is latest addition to the IIRS distance learning activities. The first online workshop in this mode is being organized for highlighting the role of crowd sourcing and participatory GIS for various spatial decision support systems. The main aim of this workshop is to spread the awareness about importance of crowdsourcing and participatory GIS for various decision support systems in developing strategic action plans.

Course Outline

This online course will cover following topics related to geoprocessing using python programming language.

- Overview of python programming language.
- Integrated Development Environment (IDE): Anaconda.
- Data types: Basic and Compound
- Programming concepts: Iteration/Conditionals/ Recursion/Functions/File handling and External Libraries usage
- Open Source geospatial libraries like GDAL, Geopandas
- Vector data handling.
- Raster data handling.

Finally a group panel discussion will be conducted with all online users and expert panel

Target Participants

The course is designed for professionals from Central / State Govt. / Private Organizations / NGO engaged in geospatial data collection and analysis related research and projects; students and researchers aligned to research in participatory GIS.

Expected Outcome

The workshop will enable interaction among professionals from Central / State Govt. / Private Organizations / NGO engaged in geospatial data collection and analysis based regional and national projects; students and researchers aligned to research in participatory GIS. It will also enable flagging key issues of crowdsourcing and participatory GIS for various decision support systems.

Course Registration

- Course updates and other details will be available on URL- http://www.iirs.gov.in/Edusat-News/
- To participate in this programme the interested organizations/ universities/ departments/ Institutes has to identify a coordinator at their end. The identified coordinator will register online his/her Institute as nodal center in IIRS website.
- All the participants has to register online through registration page by selecting his/her organization as nodal center.

Course Reception

Programme can be received through Internet connectivity of 2Mbps or better. Following hardware and software set-up is required at user end:

Hardware Requirements :

High-end Computer/Laptop (Windows OS);
Good quality web camera ;
Headphone with Microphone;
Speakers ;
Large Display Screen (Projector or TV) .

Software and Internet Requirements:

Desktop based: A-VIEW software (free to download from www.aview.in or IIRS ftp link: ftp://ftp.iirs.gov.in)
Online live access through http://live.iirs.gov.in with free registration.

Connectivity & Other configurations:

NKN or any other high speed internet facility (preferably without firewall, with minimum of 2 Mbps bandwidth)
Network requirements: Port 80 and RTMP (port 1935) protocol should be unblocked from user's computer and Firewall.

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IIRS Outreach Programme

Geoprocessing using Python

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Indian Space Research Organisation
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