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SUNRAISE: Sustainable Natural Resource Use in Arctic and High Mountainous Areas

Report on:

Winter School on QGIS

03-07 February 2020

Special Center for Disaster Research (SCDR),

Jawaharlal Nehru University (JNU), New Delhi India



Partner number: P12

**Jawaharlal Nehru University, New Delhi
India**

Report

Winter School on QGIS 3-7 Feb 2020

at

Special Centre for Disaster Research (SCDR) Jawaharlal Nehru University (JNU) New Delhi

A manual on Hands-on course on Basics of GIS Analysis is developed for the Summer/Winter School or Training on the remotely sensed satellite data processing. A “*Winter School on QGIS*” was organised by the School of Environmental Sciences (SES), Jawaharlal Nehru University (JNU) for students and research scholars at the Special Centre for Disaster Research (SCDR) as a party of capacity building under sustainable natural resource use in Arctic and high mountainous Areas (SUNRAISE project) on 3-7 February 2020.

The Winter School was coordinated by the Doctoral Research Students of SES under the supervision of Prof. P K Joshi one of the partners of SUNRAISE project.

The purpose of the winter school was to introduce satellite data processing to the beginners. The participants were MA and PhD students SCDR/JNU. These students are attending the course entitled “*Remote Sensing, GIS for Emergency Management*”, which is developed with the SUNRAISE project

The five-day school covered the topics (i) QGIS - Installation, (ii) Introduction to QGIS, (iii) Tables and Queries, (iv) Topographic Analysis, (v) Geo-referencing, (vi) Digitization, and (vii) Layout. The manual provides step based approach to learn different aspects of spatial data processing, integration in GIS environment, interpretation and decision making.

All the participants actively participated in the winter school and learnt these aspects. The participants were exposed to fundamentals of GIS (spatial and non-spatial,) using spatial data from different sources, creating new database and analysis thereon. Different data formats, storage, visualisation and archiving techniques were shared during this session. The coordinators also shared practical know-how of about different applications, from the real-time examples of their masters’ research work and proposed doctoral research work.

After winter school, a formal feedback was collected from the each of the participants with open ended questions. Some extracts from the feedback are given below.

“...I feel the workshop provided a more practical experience and help us to understand the theories better. This will be very helpful in future when we apply for any internships or jobs and in overall having a good understanding regarding the use and importance of GIS in disaster management and other fields...” - Titikshya Tejawini

“...This can be a pretty useful software for people who needs to analyze data and modify it at the same time, because each elements of the maps is open separately, and we can see the tables and add information easily and keep on track about all the changes...” - Dinesh Kumar

“...It was a great opportunity to learn the basics and applications of GIS. I will prefer using this in my masters dissertation and would be happy to have a career in this area. I am confident learnings from this training will add value to my future endeavors...” - Surbhi Mahawar

This was the first test of the manual developed in the SUNRAISE project, testing its utility for the students/scholars attending courses on remote sensing and applicability. It is planned to use this manual for winter school for the coming yeasts in SCDR/JNU and also use it to other school of the university and share with other partners of SUNRAISE project.

At the end of the talk, Prof PK Joshi thanked the coordinators and students/research scholars for their interest and attendance.



Participants interacting during the Winter School

List of Participants

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NB: as the lockdown was announced while this report is being prepared, hence the actual attendance sheet is not appended.