



Foundational Course on GIT for Sustainable Land Management

United Nations Satellite Centre UNOSAT

Deadline: 8 Apr 2024

Type:	Course
Location:	Thimphu, Bhutan
Date:	10 Apr 2024 to 12 Apr 2024
Duration:	3 Days
Programme Area:	Satellite Imagery and Analysis
Website:	https://unosat.org/
Price:	\$0.00
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BACKGROUND

UNOSAT is implementing The project “Strengthening Capacities in the Use of Geospatial Information for Improved Resilience in Asia-Pacific and Africa.” (2021-2024) intends to develop sustainable capacities and implement ad-hoc and tailored geospatial solutions. These can help to improve existing policy and decision-making processes to solve priority issues in the fields of Disaster Risk Reduction. Partnership with the government is crucial to the success of the

project. UNOSAT aims to develop innovative capacity development solutions and geospatial services by integrating data, technology, knowledge, and people - custom-tailored to the country's needs. This 3-year long project builds on previous experiences and aims to further enhance capacities by leveraging technological advances and innovation and providing integrated geospatial solutions for improved decision making in the fields of Disaster Risk Reduction, Climate Resilience, Environmental Preservation in the eight target countries: Bangladesh, Bhutan, Fiji, Lao PDR, Nigeria, Solomon Islands, Uganda, and Vanuatu.

Geospatial information technology (GIT) plays a vital role in managing land resources and NLCS has been striving to leverage this technology in effective management of the country's limited land resources. The Land Management Division (LMD) under the Department of Land Administration is mandated with overseeing the distribution, management, and administration of state land within the country. The division has been proactive in exploring the application of GIT for efficient release and allocation of state land on lease, exchange, and substitution.

EVENT OBJECTIVES

Given Bhutan's current trajectory, particularly with the rapid urbanization and economic pursuits, optimizing the release and management of the limited state land has been crucial. However, the division staffs currently face a capacity deficit in effectively utilizing GIT tools in their work. This gap impedes the seamless integration of GIT into their workflow, thereby affecting the overall efficiency and effectiveness of land management processes. Therefore, UNOSAT will enhance their capacity, as well as that of the other divisions in the department, through a foundational course on the GIT application for efficient land service delivery. The training will also instruct the participants on how to access online resources such maps and satellite data, which can be instrumental in making land related decisions.

LEARNING OBJECTIVES

At the end of the course participants should be able to:

- Recall the basic concepts and terminology related to Geospatial Information Systems (GIS)
- Apply basic methods and functionalities of GIS software (QGIS) to analyse spatial data.
- Gather free geospatial data and satellite image available in the web.
- Produce maps for supporting decision making process.

CONTENT AND STRUCTURE

This introductory training aims to provide participants with lectures on key concepts on Geospatial Information Technology (GIT) and practical exercises to perform basic operations using open-source GIS software. By the end of this training, participants should be able to prepare maps and perform geospatial analysis.

METHODOLOGY

Duration: 3 Days

Expected Workload: 21 hours.

This is a 3-day full-time face-to-face technical training divided into 3 modules. This face-to-face course will consist of lectures and GIS lab exercises using GIS datasets and real case scenarios, whereas 70% of the training content will focus on lab exercises while 30% will be lectures and discussions

TARGETED AUDIENCE

The course is designed to accommodate selected participants with a variety of backgrounds and professional experiences, from the Department of Social Welfare and relevant ministries. The criteria for selection include:

- 50% of female participants.
- No previous GIS or Remote Sensing knowledge or experience are needed. Basic computer literacy is required.
- Commitment to use the knowledge and skills acquired to provide efficient land services