



GLOBAL ONLINE CERTIFICATE COURSE ENVIRONMENT DATA, MAPS AND GIS (GEOGRAPHIC INFORMATION SYSTEM) FOR COMMUNICATION IN 21ST CENTURY

(focus on climate change and extreme weather events)



Date
MAY06-20,2026



Course Duration
15 HOURS



Platforms
ZOOM AND MOODLE

In today's dynamic, data-driven world, mastering the skills of finding, processing, and visualizing environmental and sustainability data is essential for career advancement and professional success.

As we confront 21st-century challenges such as climate change, air pollution, water scarcity, urbanization, biodiversity loss, and sustainable development, the role of GIS and maps in environmental communication becomes increasingly vital.

By analyzing and integrating data and maps, we can gain a comprehensive understanding of sustainability and development issues. Among these challenges, climate change stands out as the most pressing global risk for the next decade, representing a profound social, political, economic, and environmental challenge.

When effectively understood and visualized, spatial and environmental data can serve as a powerful foundation for research and actions aimed at mitigating or adapting to climate change.

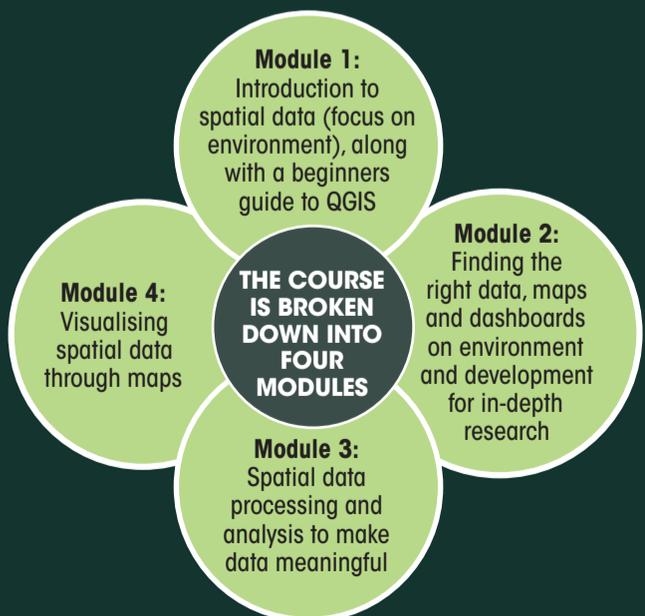
So, the Centre for Science and Environment (CSE), one of leading think tanks in Global South on the politics of development, environment and climate change, invites you to join its Global Online Certificate Course. This course is designed to equip you with the skills to interpret spatial data through hands-on training in Quantum GIS, a powerful tool for analyzing spatial data and visualising impactful maps

WHAT WILL YOU LEARN?

- **Data Sourcing:** Learn how and where to research for relevant spatial data. You will learn to find different data sets, clean and transform and make them ready for analysis using QGIS.
- **Data Analysis:** Learn how to read, analyse and make sense of spatial or geographic data

- **Data Visualisation:** Understand the basic concepts of visualisation and learn to visualise spatial data using QGIS for research, environmental management and communication

Note: take a broad view of the role of GIS in environmental communication and management, but will focus on climate change and its impacts including extreme weather events



COURSE STRUCTURE

- The self-paced online programme will have video lectures, presentations, tutorials, quizzes and assignments. Participants will also get an opportunity to work on an in-depth project of their choice.
- The programme will also have **three live interactive sessions** for meeting the trainers and fellow participants.
- The programme has been designed in such a way that it can be completed along with a regular job or study.

KEY REQUIREMENTS

- All participants would require:
- 1) A computer/laptop
 - 2) A high-speed internet connection

TRAINING FEES
₹4,000 for Indian participants.
US \$100 (for global participants)



WHO CAN ATTEND?

- Environmental and development professionals associated with environmental management, conservation, and sustainability.
- Researchers in environmental science, geography, and urban planning.
- Government officials and policymakers in environmental policy, urban planning and sustainable development
- NGOs and Civil Society Organizations
- Urban planners, engineers and other professionals in infrastructure development and sustainable urban planning.
- Corporate Sustainability Officers
- Reporters and media professionals covering environment and sustainability
- Aspiring professionals in environmental science, GIS, or sustainability and others interested in the subject

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