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Tiruchirappalli - 620 024

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Assistant Professor  
Department of Geography  
Bharathidasan University  
Tiruchirappalli - 620 024

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**One Day National Workshop on  
Geoinformatics for  
Climate Change Analysis**

**18 March, 2025**

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**Organising Secretary**

**Dr. P. Masilamani**  
**Assistant Professor**  
**Department of Geography**  
**School of Earth Sciences**  
**Bharathidasan University**  
**Tiruchirappalli - 620 024**  
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**TNCCM Sponsored**



**Tamil Nadu Climate  
Change Mission.**

**One Day National Workshop on**

**Geoinformatics for  
Climate Change Analysis**

**18 March, 2025**



**Organised by**

**Department of Geography**  
**School of Earth Sciences**  
**Bharathidasan University**  
**(Accredited with A+ Grade by NAAC)**  
**Tiruchirappalli - 620 024**  
**Tamil Nadu**

## About the University

Bharathidasan University established in February 1982, and was named after the great revolutionary Tamil Poet, Bharathidasan (1891-1964). The motto of the University "We will create a brave new world". The University endeavours to be true to such a vision by creating the region a brave new world of academic innovation for social change. The university is accredited with A+ Grade by NAAC in the Third Cycle & 41st Rank among the Indian Universities in NIRF-2023. Conduct of International / National Level Conferences and Workshops for promoting healthy research is a regular practice of Bharathidasan University.

## About the Department

The Department of Geography was established in Bharathidasan University in July 2001 with the vision to conduct research in frontier and emerging areas of geography and to disseminate the knowledge to the community. Between 1997 and 2001 the faculty members of the Department of Geography were attached with the erstwhile School of Earth Sciences composed of Geography and Geology faculty members. The School started offering M.Tech Remote Sensing in 1994; M.Sc. Applied Geography and M.Phil Geography programmes in the year 1996 and 1999 respectively. The Department of Geography has vibrant faculty, undertaking a full range of degree programmes from five year integrated M.Sc., programme to Ph.D. in emerging and frontier areas of Geography. During the academic year 2002-2003, M.Tech programme in GIS was introduced and it was enhanced to M.Tech Geoinformatics since 2012. In the year 2006, the Department has introduced a five year integrated programme in Geosciences and later in the year 2014 it was changed into five year integrated programme in Geography. Then, Two Year M.Sc. programme in Geography was introduced in the year 2019. M.Phil in Geography was introduced in the year 2018. The University Grants Commission (UGC), New Delhi has awarded an Innovative Programme on Post Graduate Diploma in Geomatics to the Department in (2005-2010). The agencies like UGC, MEF, ISRO, DST, ICSSR and TNSCST have funded a number of research projects and fellowships to the Department. During 2008-2009, the UGC has awarded Special Assistance Programme (SAP) DRS Phase-I level (2009 – 2014) and DRS II (2015-2019) to the Department. The Indian Society of Remote Sensing (ISRS), Dehradun has housed its Tiruchirappalli Regional Chapter of ISRS at the Department. The Department regularly conducts Refresher courses and Summer schools for enhancing academic excellence of the teachers of higher educational Institutions. The Department conducts Indian Geographical Society's Talent Test for UG and PG students of geography in all the institutions in the state since 2010.

## Objective of the Workshop

Climate change refers to long-term shifts in temperature, precipitation patterns, and other atmospheric conditions on Earth. It is a significant global concern, affecting ecosystems, weather patterns, and human livelihoods. The primary drivers of climate change include both natural factors such as volcanic eruptions, solar radiation, and oceanic circulation and anthropogenic factors, including greenhouse gas emissions, deforestation, industrialization, and land-use changes. Analyzing climate change involves assessing its physical, chemical, and biological impacts on the environment. Key indicators of climate change include rising global temperatures, sea level rise, glacier retreat, changing precipitation patterns, and extreme weather events such as hurricanes, heatwaves, and droughts. These changes influence biodiversity, water resources, agriculture, and public health, posing challenges to sustainable development.

Understanding and monitoring climate change is essential for developing mitigation and adaptation strategies. Scientific research, climate modelling, and policy measures help predict future trends and guide decision-making to reduce emissions and enhance resilience. By acquiring knowledge about climate change and implementing sustainable management practices, societies can work towards minimizing its adverse effects and ensuring environmental stability for future generations.

This National Workshop aims to equip participants with a comprehensive understanding of how geoinformatics can be utilized to analyze climate change implications and develop effective adaptation strategies. By leveraging technologies such as Geographic Information Systems (GIS), Remote Sensing (RS), and Global Navigation Satellite System (GNSS), the Workshop will highlight their applications in assessing climate vulnerabilities, identifying adaptive solutions, and monitoring climate change adaptation measures. The discussions will emphasize actionable insights relevant to sectors such as agriculture, urban and regional planning, disaster management, and natural resource management. The researchers of geography, geology, and environmental sciences are the target groups. This workshop offers a unique opportunity to learn from experts, researchers and peers in the field of climate change. The target population can gain insights into the latest research findings, technologies, and best practices. It brings together professionals, researchers and students to build a network within this community which can open doors to collaboration and valuable contacts. With this background, the One Day National Workshop on "Geoinformatics for Climate Change Analysis" is being organized by the Department of Geography, School of Earth Science, Bharathidasan University, Tiruchirappalli on 18 March, 2025.

## The Workshop is designed for

- Government officials involved in urban planning, disaster management, and environmental policy-making.
- Researchers and academicians working on climate change, geoinformatics, and related fields.
- Representatives from NGOs and community-based organizations engaged in climate adaptation projects.
- Engineers working in geo-spatial technology industries.

## Registration

Registration is completely free for the participants,. Interested participants can apply for the Program by filling and submitting in google form on or before 14.03.2025. Working lunch will be provided for the selected participants.

## Certificate

The participants will be provided certificates on successful completion of the course. It is mandatory for all participants to attend all the sessions.

## Important Dates

Last date for submission of Application	14.03.2025
Date of the National Workshop	18.03.2025

## Program Venue and Time

AC Auditorium, Bharathidasan University, Tiruchirappalli  
10:00 am to 5:00 pm



Department of Geography, Bharathidasan University

Contact us on : [nwgcca2025@gmail.com](mailto:nwgcca2025@gmail.com)