



A High-end Workshop on

STATistical Analysis and Modelling of Climate Extremes (STACE)

under Karyashala – SERB Accelerate Vigyan

12 - 17 December 2022

About the workshop

The event will be conducted under the 'Karyashala' scheme of Accelerate Vigyan program of the SERB to support PG and PhD students. The program aims to impart knowledge regarding the detection of climate extremes (such as, floods, droughts, extreme rainfall, heat waves, cold waves, and others) using big hydroclimatic datasets; their analysis and modelling through several statistical testing procedures in a MATLAB® environment. The program would cover theoretical concepts and hands-on practice sessions using real-world data.

Funded by

Science & Engineering Research Board (SERB),
Department of Science & Technology (DST),
Government of India

Organized by

Department of Civil Engineering,
Indian Institute of Technology Indore
Khandwa Road, Simrol, Indore – 453552.



Course Content

The program would cover the following topics:

- Introduction to hydroclimatic datasets and climate extremes
- Univariate and multivariate analysis
- Frequency analysis of climate extremes
- Downscaling techniques, bias correction and ensembling approaches
- Analysis of joint climate extremes
- Stationarity assessment of climate extremes
- Climate variability and teleconnections
- Intensity-duration-frequency curves under stationary and non-stationary conditions

Who can attend?

- Applicants pursuing Postgraduate (PG) or PhD degrees in the disciplines of Water Resources, Climate Change, Agriculture, Disaster Management & allied fields from Indian Institutes/Colleges/Universities can apply.
- Recently graduated (within last two years) PG students are also eligible.
- Total **number of seats are limited to 25**.
- There is **no registration fee**.
- A departmental committee will review the applications and shortlisted candidates will be informed through email.

How to apply?

- Submit your details in the online form provided at the below link or scan the QR: <https://bit.ly/3W8v0PK>



Important Dates

- Application opens: **31 October, 2022**
- Last date of application: **20 November, 2022**
- Shortlisting of candidates: **22 November, 2022**
- Workshop dates: **12-17 December, 2022**

Whom to contact?

Ms. Achala Singh

Ph.D. Scholar & Student Coordinator, STACE

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About IIT Indore

Indian Institute of Technology Indore located in Madhya Pradesh, known as IIT Indore or IITI, is an institute of national importance established by the Government of India in 2009. IIT Indore is spread over an area of around 501.42 acre (2.1 km²) at Simrol village on Khandwa Road about 25 km from the Indore city. The Department of Civil Engineering was established in 2016 and imparts UG and PhD degrees.

How to reach IIT Indore?

IIT Indore is well connected with major cities of India by road, rail and air. It is located approx. 34 kms from the Indore Airport and approx. 25 kms from Indore Railway Station and Sarwate Bus Stand. Frequent city bus services are available from Bhawarkua to IIT Simrol (Bus no. M-19).

Course Coordinator

Dr. Priyank J. Sharma

Assistant Professor, IIT Indore

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Course Faculty

- **Prof. Manish Kumar Goyal**, Professor, IIT Indore
- **Prof. Ramesh Teegavarapu**, Professor, Florida Atlantic University, USA
- **Dr. Prafulkumar V. Timbadiya**, Associate Professor, SVNIT Surat
- **Dr. Subbarao Pichuka**, Assistant Professor, NIT Andhra Pradesh
- **Dr. Somil Swarnkar**, Assistant Professor, IISER Bhopal

