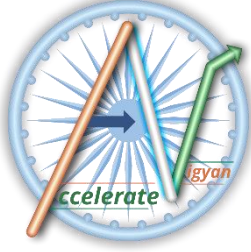


High-End Workshop
On
**Sustainable Built
Resilience Environment**

07th Feb 2022 (Mon) – 11th Feb 2022 (Fri)



Organized by:

Department of Civil Engineering,
Visvesvaraya National Institute of Technology,
Nagpur

Funded by:

Science & Engineering Research Board (SERB)
under the Accelerate Vigyan Scheme

Advisory Board

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About the Institute

Visvesvaraya National Institute of Technology, Nagpur is one of the thirty National Institutes of Technology in the country. It is an Institute of National Importance, named after Bharat Ratna Sir M. Visvesvaraya. Earlier, the Institute was known as Visvesvaraya Regional College of Engineering (VRCE). It was established in the year 1960 under the scheme sponsored by Govt. of India and Govt. of Maharashtra. The vision of institute is to contribute effectively to the national endeavour of producing quality human resource of world class standard by developing a sustainable technical education system to meet the changing technological needs of the country incorporating relevant social concerns and to build an environment to create and propagate innovative technologies for the economic development of the nation.



About the Department

The Department of Civil Engineering is one of the finest and oldest engineering department of the Institute and stands with an immortal reputation. The department was formed along with the Institute itself and therefore is as old. The Department has highly educated and well experienced faculty members who endeavor to produce finest engineers, contributing incredibly to the nation. The alumni of the department are widespread in India and abroad, occupying high positions in their respective fields. The Department has an intake of 120 students per year under UG Course and 100 students per year under PG Courses.

About the Course

This course will be conducted under Accelerate Vigyan scheme intended towards “Abhyaas” mission to understand the need and urgency for Sustainable habitat with practical applications for young and passionate researchers. Sustainable habitat is the single most influencing factor which outlines a society's aspiration for living a sustainable life. All the newly designed habitats are struggling with various issues arising from poorly conceived habitat design. Knowledge and developing human resources in habitat design are of utmost importance in today's emerging India. **The course shall be conducted through virtual mode.**

Target Participants

Motivated Doctoral & Master's students from Tier-II & Tier-III level institutes as defined under the Scheme 'Accelerate Vigyan' by DST-SERB.

Workshop Coordinators / Event Organizers

Dr. Udit Jain

Assistant Professor,
Department of Civil Engineering,
Visvesvaraya National Institute of Technology,
Nagpur- 440 010
Ph: 0712 - 2802259
Email: uditjain@civ.vnit.ac.in

Dr. Srinivasan V

Assistant Professor,
Department of Civil Engineering,
Visvesvaraya National Institute of Technology,
Nagpur - 440 010
Ph: 0712 - 2802254
Email: srinivasanv@civ.vnit.ac.in

Support Team

- Mr. Mayuresh Patil, VNIT Nagpur
- Mr. Jagdish Gouda, VNIT Nagpur

Programme Schedule

| Tentative Topics | Speaker | Tentative Topics | Speaker |
|---|---|--|--------------------------------------|
| Landuse & Landcover management for a Sustainable Built Resilience Environment | Dr. G. Janardhanan, NITTTR Chennai | Power of Doubling-Population Growth and Resource Consumption | Dr. Sarika Bahadure, VNIT Nagpur |
| Alkali-Activated Concrete Technology and it's Practical Applications | Dr. Arkamitra Kar, BITS Pilani, Hyderabad | Urban heat Island studies for Sustainable Urban Development | Dr. Rajashree Kotharkar, VNIT Nagpur |
| Sustainable Nature based Ground Improvement Method | Dr Neelima Satyam, IIT Indore | Low cost Sustainable housing | Dr. Rahul V Ralegaonkar, VNIT Nagpur |
| Framework for Systematic Pre-treatment process and Optimization of Sugarcane Bagasse Ash use in Cement based products | Dr. Prakash Nanthagopalan, IIT Bombay | Utilization of C&D waste for Sustainable Rigid Pavements Application - An Indian Prospective | Dr. Surender Singh, IIT Madras |
| Development & Application of LC3 for Sustainable Built Environment | Dr. Shashank Bishnoi, IIT Delhi | Bio-cementation for Sustainable Resilience built Environment | Dr. M V Latkar, VNIT Nagpur |
| Water Geotechnics for Sustainable Resilience Built Environment | Dr. BVS Viswanadham, IIT Bombay | Railway Geotechnology for Sustainable Built Resilience Environment | Dr. Sowmiya Chawla, IIT(ISM) Dhanbad |

Objective of the Course

- ✓ As desired by DST-SERB **KARYASHALA**, the course is intended towards “Abhyaas” mission.
- ✓ Innovative design for reducing ill effects of increasing human habitation on environment.
- ✓ Necessity to create benchmarks that would identify sustainable development of habitat.
- ✓ Focusing on invariable distribution of economic benefits and it's environmental impact on urban regions.

Key Features

- ✓ Sustainable habitat
- ✓ Metropolitanisation – Pros & Cons
- ✓ Spatial reflection of socioeconomic growth
- ✓ “One size fits all” policy Vs Diversity in social and cultural ethos across the country
- ✓ Social connection is also enhanced by networking and ease of access, which contributes to societal development.

Registration & Guidelines

- **The course will be completely free of cost for the shortlisted participants.**
- The participants will be limited to 100 candidates (as per SERB norms). The applicants shall produce a endorsement letter from their Head of the department indicating their enrolment with the institute and “No Objection Certificate (NOC)” for permitting to undergo training in the workshop, if selected.
- VNIT reserves the right to devise a well-defined shortlisting criteria for selection of candidates based on the basic eligibility criteria laid out by SERB and as per formulated guidelines for this workshop.
- Please fill Google form for Registration: <https://tinyurl.com/2p8zckyc>



Scan to Register

Course Assessment & Feedback

Active participation in lectures & discussion/interaction sessions along with a basic level evaluation shall fetch the participant the KARYASHALA Course Completion Certificate.

As per SERB guidelines, mandatory anonymous course feedback shall be taken in the stipulated format.

Important Dates

Last date for registration : 31-01-2022
Notification to selected participants : 03-02-2022