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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 Ratan 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 endeavor of producing quality human re-source 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.

High-End Workshop

on

Sustainable & Resilient Infrastructures for Built Environment

23rd – 29th Jan 2023



Organized by:

Department of Civil Engineering
Visvesvaraya National Institute of Technology
Nagpur

Funded by:

Science & Engineering Research Board (SERB)
under
'Karyashala' Abhyas Programme
Accelerate Vigyan Scheme

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 its environmental impact on urban regions.

Course Outline

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.

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.

Programme Schedule

Tentative Topics	Eminent Speakers
Sustainability of construction materials	Dr. Janardhanan, NITTTR Chennai
Environmental Sustainability	Dr. Karthik B., VNIT Nagpur
Making of Sustainable & Durable Concrete with Additives	Er. Vivek Naik, MD, Apple Chemie
Thermal Behavior of Natural Building Materials	Dr. Nikhil N Sirdesai, VNIT Nagpur
Sustainable Walling Material	Dr. Rahul V. Ralegaonkar, VNIT Nagpur
Sustainable Aspects of Geogrid-Reinforced Flexible Pavements	Dr. S Sireesh, IIT Hyderabad
Application of GIS & Remote Sensing for Sustainable Watershed Management	Dr. Yashwant B Katpatal, VNIT Nagpur
Disaster Resilient Infrastructure	Dr. S. Deshkar, VNIT Nagpur
Creating Sustainable Transportation System – Pavement Engineer Perspective	Dr. Priyansh Singh, IIT Indore
Assessing Sustainability and Resiliency	Dr. Sarika Bahadure, VNIT Nagpur
Sustainable & Safe Urban Transportation	Dr. Udit Jain, VNIT Nagpur
Blast: A Manmade Disaster - Understanding Its Importance for Design and Development of Resilient Infrastructure	Dr. M. D. Goel, VNIT Nagpur

Eligibility Criteria

The candidate should be pursuing PhD Degree in full time / part-time in any discipline.

or

The candidate should be pursuing a Master's Degree in full time / part-time in any discipline.

Registration Details

- ✓ The course is completely free of cost for all shortlisted participants (SERB norms).
- ✓ Travelling expenditure of 3AC train fare will be reimbursed to all selected candidates upon submission of train tickets by the shortest route to and from Nagpur.
- ✓ Accommodation will be provided to all selected candidates by VNIT during the course in the hostels on sharing basis, subject to availability.
- ✓ The participants are limited to 25 candidates only.
- ✓ Preference shall be given to students from Tier-II / Tier-III institutes as per the norms of the Accelerate Vigyan "Karyashala" scheme.
- ✓ Interested candidates should fill out the Google Form at the earliest:
<https://forms.gle/GeLD2huUdAm12sgm7>



SCAN QR TO REGISTER

- ✓ NO REGISTRATION FEE
- ✓ TRAVEL REIMBURSEMENT
- ✓ FREE ACCOMMODATION

Important Dates

Last date for registration : 07th Jan 2023
Notification to selected participants : 10th Jan 2023

Shortlisted candidates will get complete instructions to deposit "Fully Refundable" Caution Money (₹ 1,000/-) and submit a No-Objection Certificate duly signed by their respective Head of the Department by 13th Jan 2023.

Course Dates (Physical Mode at VNIT Nagpur):
23rd – 29th Jan 2023