



# HIGH END WORKSHOP ON Characterization Techniques and Life Cycle Assessment of Construction Materials for Sustainable Infrastructure



Organized by  
Department of Civil and Infrastructure Engineering,  
Indian Institute of Technology (IIT), Dharwad

[Accelerate Vigyan, Science and Engineering Research Board (SERB), Government of India]

## Preamble:

"Accelerate Vigyan" (AV) strives to provide a big push to high-end scientific research and prepare scientific manpower which can venture into research careers and a knowledge-based economy. The aim of AV is to expand the research base in the country, with three broad goals - consolidation/aggregation of all scientific training programs, initiating High-end Orientation Workshops and creating opportunities for Training and Skill Internship.

## About the WORKSHOP:

This is a high-end workshop for young researchers (UG, PG & Ph.D.) to experience hands-on training on various technologies available for materials characterization and analysis in advances and research in the construction materials and technologies sector, especially related to Technologies for Low carbon and energy materials and technologies towards sustainable Infrastructure.

The primary focus of a related initiative at IIT Dharwad would be to undertake projects and related activities to minimize the waste in construction - in terms of materials and processes, and promote the possibility of suitably employing waste from other industries by means of life cycle assessment. The workshop aims at engaging young researchers.

## Major Course Contents:

- Understand the tools and techniques available for materials characterization to employ waste from other industries in concrete as a binder.
- Understand the life cycle environment and cost assessment.
- To connect and interact with others working in the same domain, to throw queries and learn concepts from renowned experts in the area of different aspects of construction materials, both theoretical and applied, and
- Get guidance from renowned experts working on construction materials and technology.

## About the Programme:

The Programme will be handled by faculty members/researchers from IITs and industry experts from reputed companies.

## Course Evaluation:

Continuous assessments will be conducted at regular intervals. Assessment includes MCQ's, fill in the blanks, True/False and/or scenario based questions.

## Eligibility:

The programme is open to the UG (Final Year), PG students and PhD (fulltime) scholars of various institutions across the India working in the field of Civil Engineering and allied disciplines.

## How to Apply:

Participants are required to fill the online registration form by clicking on the following link:

Registration Link : <https://forms.gle/qPEiHkWU7qKKZjQV9>

## Selection Criteria:

Selection will be done based on **SOP** and the confirmed candidates will be notified immediately. The maximum number of participants will be 25 (Twenty Five). Only 5 UG students are allowed. The list of selected participants will be intimated through e-mail. They will be provided with travel allowances (3AC train fare- shortest route), food and accommodation as per SERB and GoI norms. Candidates will be issued satisfactory certificates on successful completion of the course.

## Important Dates:

Last Date for Submission of Application	23-02-2024
Selection List by E-mail	29-02-2024
Duration of Program – 7 days	11-03-2024 to 17-03-2024

## About IIT Dharwad:

Indian Institute of Technology Dharwad (IIT Dharwad) is an autonomous premier Science and Technology Institute established by the Ministry of Human Resource Development, Government of India in 2016. Academic activities at IIT Dharwad commenced in July 2016 with B.Tech. course being offered in three core branches, namely, Civil and Infrastructure Engineering, Computer Science, Electrical Engineering, Mechanical Engineering and Chemical Engineering. The current intake at the institute stands is about 60 students in each of the specializations. PhD program in all 5 sciences and 5 engineering departments commenced from January 2021 session and MS (by research) in three engineering departments commenced from August 2019.

## Address for Correspondence:

### Coordinator of the Program:

**Dr. Ramesh Nayaka,**

Assistant Professor,  
Department of Civil and Infrastructure Engineering,  
Indian Institute of Technology (IIT) Dharwad  
Dharwad- 580007, Karnataka State, India  
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## Contact Details:

1. Manjunathgouda M Patil (Research Scholar) – 8147899079
2. Hema Gurappa Pol (JRF) - 9845122250



## HIGH END WORKSHOP ON

# Characterization Techniques and Life Cycle Assessment of Construction Materials for Sustainable Infrastructure



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## APPLICATION FORM

### ENDORSEMENT CERTIFICATE

1. Name:
2. Designation:
3. Institution:
4. Email:
5. Mobile No:
6. Research Interest:
7. Address for Correspondence:
8. Educational Qualification:
9. No. of Karyashala workshops attended:
10. Statement of Purpose to Attend this High-End Workshop:  
(Write the SOP while filling Google form)

Dr. / Mr. / Ms. .... is  
an UG (Final Year)/PG/Ph.D. (Full Time) student of our  
Institute/Organization and is hereby sponsored to participate  
in High End Workshop on "**Characterization Techniques and  
Life Cycle Assessment of Construction Materials for  
Sustainable Infrastructure**" organized by the Department  
of Civil and Infrastructure engineering during **11<sup>th</sup>  
March 2024 to 17<sup>th</sup> March 2024** at IIT Dharwad.

Place:

Date:

Signature of Head of Institution (With Seal)

### Declaration

The information provided is true to the best of my knowledge. If  
selected, I agree to abide by the rules and regulations of the High-  
End Workshop and shall attend the course for the entire duration.  
I also undertake the responsibility to inform the coordinator in  
case, I am unable to attend the course.

Date:

Signature of the Applicant