

Five-Days Online Workshop
on
MATLAB Applications in Civil Engineering
4th to 8th August 2023



Coordinators

Dr. Amrit Kumar Roy
Dr. Vimal Kumar

Organized by



Department of Civil Engineering
National Institute of Technology Hamirpur
Hamirpur-177005 (H.P.)

About the Institute

National Institute of Technology Hamirpur is one of the thirty-one NITs of the country, which came into existence on 7th August 1986 as Regional Engineering College, a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh. On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The Institute offers Bachelor, Master and Doctoral programs in Engineering, Sciences, Architecture, Management and Humanities. Various programs serve the purpose of building a comprehensive foundation of knowledge and of enhancing confidence, creativity and innovation in its students.

About the Department

National Institute of Technology, Hamirpur was established in the year 1986 and the Civil Engineering Department is part of the institute since its inception. Civil Engineering is the branch with lot of diversity right from structural to transportation engineering, environmental to hydrology to hydraulics engineering, geology to geo-technology to earthquake engineering. Being one of the primary Engineering Departments of the Institute, the Department of Civil Engineering offers B. Tech., M. Tech. and Ph.D. degree programs. The Department has been imparting quality education at undergraduate and post-graduate level. The faculty members have been active in teaching, research as well as academic activities.

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About the e-Workshop

The Workshop is intended to develop the knowledge of MATLAB used in the field of Civil engineering. It will make the audience aware of the basic and advanced tools available in MATAB and their usage in Civil Engineering. Distinguished experts from IITs, NITs will be considered potential speakers for the workshop which will benefit P.G. and Ph.D. students to enhance their knowledge and also help the students to solve their dissertation problems.

The primary aims of this e-Workshop are to enhance the computational skills of the participants for solving Civil Engineering Problems using MATLAB. The workshop will promote interaction with professionals working in specific areas of research in Academic Institutions. Also, exposure will be provided to the audience on the wide application of MATLAB that may help in carrying out their research work. This program will bring a positive transformation among the faculty members and research scholars toward research work, and enable the participants to develop competence in understanding—recent advances in the proposed topic of the workshop.

Topics to be Covered

- Introduction to MATLAB
- Hands-on sessions

- Finite Element Modeling of Civil Engineering problems
- Application of optimization algorithms for solving Civil Engineering Problems.
- Application of Machine Learning algorithms for solving Civil Engineering Problems, etc.

Resource Persons

The lectures will be delivered by technical people from MATLAB or MATLAB partner companies and different experts from NITs, IITs, CSIR Labs, etc.

Important Dates

Last date (Online Registration): 02-08-2023
Confirmation by E-mail: 03-08-2023
e-Workshop Duration: August 4-8, 2023

Eligibility

This program is open to faculty members, scientists, PhD scholars, PG & UG Students and industrial personnel.

e-Registration

Registration Fee: Through SBI Collect

- (a) Rs. 500 for the participants from Academia/R&D Labs
- (b) Rs. 200 for students
- (c) Rs. 1000 for participants from Industry

How to Apply

Interested candidates must deposit the non-refundable registration fee through SBI collect (ONLY) by the following procedure:

- a. Go to SBI collect home page
- b. Select Category '**Educational Institutions**'
- c. Search for Educational Institute '**NIT Hamirpur**' against state Himachal Pradesh
- d. Select payment category as **WORKSHOP FDP STC CONFERENCE**.
- e. Generate the payment slip and take a printout of the same.
- f. Fill the registration form available at the following link and also attach the soft copy of the payment slip generated in step 'e' above.

<https://forms.gle/xMXjDS68FeGRzB567>

Notes: *The above link will be closed once the limit of participants will reach. Therefore, check the registration link is open before payment of the fee, please. *The applications will be accepted on first-cum-first serve basis. *Venue: Through Google Meet.

e-Certification

E-certificates will be provided to the participants fulfilling the minimum attendance criteria and whose payment is verified.

Contact Details

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