

### Salient features:

- Hands on training on ANSYS FLUENT software from the experts.
- 1 month free software license will be provided by ANSYS to the participants for practice

### Registration for the Workshop:

This STTP is open to all, however, the preference will be given to faculty members. Registration is mandatory and limited to 25 participants only on first come first basis.

Early Bird Registration Deadline: 20th July 2024.

Early Bird Registration fee:

- Faculty member: ₹ 3000/- + GST
- Self-sponsored delegate/ Engineers: ₹ 3500/- + GST
- Research Scholar: ₹ 2500/- + GST

After Early Bird Registration Deadline the registration fee will be:

- Faculty member: ₹ 3500/- + GST
- Self-sponsored delegate/ Engineers: ₹ 4000/- + GST
- Research Scholar: ₹ 3000/- + GST

Registration Fees includes Registration Kit, Lunch, Tea or coffee for six days.

**Last date for registration is 25th July 2024.**

For registration details, please follow the link:

<https://iitram.in/workshop/index38/>

### Accommodation:

Accommodation request can be processed with nearby tied-up hotel on payment basis. Please contact the organizers for details.

### Venue for the Workshop:

Institute of Infrastructure Technology Research and Management (IITRAM)  
Near Khokhra Circle, Maninagar (East),  
Ahmedabad – 380026

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# One week STTP on MODELING THE WATER RESOURCES ENGINEERING PROBLEMS (MT-WREP-2024)

29<sup>th</sup> July – 3<sup>rd</sup> August 2024



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Organized by  
Department of Civil Engineering  
**Institute of Infrastructure, Technology,  
Research and Management (IITRAM)**

(An Autonomous University established by Government of Gujarat)

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Ahmedabad, Gujarat, India - 380026

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<http://www.iitram.ac.in>

### **About IITRAM:**

Institute of Infrastructure, Technology, Research and Management (IITRAM) has been established by the Government of Gujarat as an Autonomous University and has been mandated to bring about significant change in Engineering Education with respect to Technical and Managerial knowledge in the area of Infrastructure.

The objective of this Institute is to serve as a Center of excellence in Research and Teaching in all areas pertaining to Infrastructure, and the Institute has a vision of acquiring a status of National importance in Infrastructure and related areas.

Institute with focus on core infrastructure areas offer B.Tech, M.Tech and Ph.D programs in Civil, Electrical, Mechanical and Computer Engineering domain. Ph.D. program is also offered in relevant disciplines of science and humanities.

A strong base of faculty members, state-of-the-art infrastructure, and well-equipped laboratories have enabled the institute to undertake research and consultancy projects aimed at supporting infrastructure development.

To promote the exchange of thoughts and knowledge sharing, workshops and conferences are organized for public/private organizations, consultants, faculty members, and the student community. Established with a vision to promote

research, technology incubation, and product innovation, the institute is spearheading the promotion of a culture of interdisciplinary research, startup incubation, and industrial collaboration.

### **About the Department:**

The Department of Civil Engineering, established since the inception of the institute, has blossomed into a full-fledged department offering Bachelor's programs in Civil Engineering, Master's programs in Urban Infrastructure and Geotechnical Engineering, and Ph.D. programs in diverse areas of Civil Engineering. The department boasts faculty members spanning all major specializations from top research institutes in the country and abroad. The focus on the establishment of infrastructure facilities has ensured well-developed teaching and research laboratories within the department. Additionally, soft computing facilities, including software spanning civil engineering needs, complement teaching and learning activities. Besides teaching, faculty members in the department are engaged in research, consultancy, and skill enhancement activities.

### **Who should attend:**

This STTP is open to all individuals working in the field of hydraulics and water resources engineering. However, preference will be given to faculty members.

### **Speakers / Resource Persons:**

The speakers for the workshop:

- Eminent experts from IITs/NITs
- Eminent experts from ANSYS
- Faculty Members from IITRAM

### **Patrons:**

- Prof. B. N. Singh, Director General, IITRAM
- Prof. M.K. Barua, Director, IITRAM
- Mr. C. P. Joglekar, Registrar, IITRAM

### **Coordinators:**

- Dr. Manoj Langhi, Faculty, IITRAM
- Dr. Himanshu Sharma, Faculty, IITRAM

### **Workshop Theme:**

The workshop aims to develop a holistic view of computational hydraulics, thereby enabling a better understanding of the use of numerical modeling in addressing water resources engineering problems. Eminent personalities in the field of hydraulics and water resources engineering will update participants on the latest trends in numerical modeling. The STTP covers a wide range of applications, including

- Modeling flow through water treatment plant piping
- Dam break analysis
- Multiphase modeling approaches
- Pollutant mixing
- Scouring around bridge piers
- Flow pattern around submerged vanes
- Morphological modeling