

Call for Participation

3rd One-Week

Short Term Training Programme

On

“Recent Advances in Computational Heat and Mass Transfer”

16th -20th December-2019

Coordinator:

Dr. Ramakanta Meher
Assistant Professor



Organized by

Department of Applied Mathematics & Humanities
Sardar Vallabhbhai National Institute of Technology, Surat
(An Institute of National Importance, Govt.of India)

Surat – 395 007

Gujarat, India

About the Institute

The institute initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and has upgraded as a National Institute of Technology on 4th October, 2002. SVNIT is one of the pioneering engineering institutions of the country that has contributed many outstanding engineers in India & abroad. It is conducting seven UG programs, eighteen PG programs and a Ph.D. program in all disciplines of engineering and applied sciences. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year.

About the Department

Department of Applied Mathematics & Humanities is engaged in teaching & research in the subject of Mathematics, Management & English. It offers Ph.D. Program in Mathematics, Management & English and 5 years Integrated M.Sc. Programme in Mathematics. Faculty members of the department have covered a vast area of research field such as Fluid flow through Porous Media, Approximation theory, Computational Biology, Optimization technique, Special functions etc.

Eligibility for Participation

The training programme is open for science and engineering college teachers (both degree and polytechnic colleges), Ph.D., M.Tech. and M.Sc. Students. As the training programme is of interdisciplinary nature, Faculties and PhD scholars of Mathematics and Engineering disciplines can attend the programme.

Registration Fee:

The **Registration Fees** for the STTP Programme is **Rs.5000.00 for faculty members, Research Scholars (Ph.D. and M.Tech.) and M.Sc. students** from different institutions.

The non-refundable registration fees should be sent in the form of a **DD in favor of “Director, SVNIT-CCE”, Surat payable at Surat.**

Registration fees includes Registration kit, Breakfast, Lunch and tea during the programme. The accommodations are available for outside participants and that may be arranged on request in Narmad Bhavan guest house on twin-sharing basis (Rs. 200 per day).

Please refer to: <http://www.svnit.ac.in/web/campus.php?tag=guesthouse>.

Last Date of Registration

Hard copy of the registration form along with the DD should reach the Coordinator on or before 09-12-2019.

The candidates can send their advanced copy of signed and scanned registration forms to the Coordinator through e-mail

(meher_ramakanta@yahoo.com or ramakant_svnit@rediffmail.com).

Resource Persons

Faculties from IIT's, NIT's, various prestigious Institute, Universities and from Host Institution.

About the Training programme

The proposed STTP is an interdisciplinary programme that will bring together the faculties from engineering disciplines, Industries and faculties from Science colleges & Universities. This programme will greatly benefit in providing conceptual understanding, computational & procedural fluency and problem solving skills.

Objective of the Programme

The One week Short term Training Program on “**Recent Advances in Computational Heat and Mass Transfer**” will provide a forum for Researchers working on Differential equations, Computational Fluid Dynamics, Fluid Mechanics and thermodynamics from all corners of the globe to present the latest progress and developments in the field and foster an environment conducive to exchange ideas and information.

Computational techniques and methods are an evolutionary field from macroscopic-level to Nano-level, using continuum and discrete mechanics. It is necessary for scientists and engineers to come together every year in a relaxed environment to learn and discuss new ideas and developments in the area of computational methods and applications, especially in the topic of Differential Equations, Fluid Dynamics, heat and mass transfer in non-reactive and reactive processes. In addition, it is a good opportunity for new scientists and engineers to explore the art of computational methods.

Topics of the programme are, but not limited to, the following:

- Local existence and uniqueness theorem for partial differential equations
- Advanced analytical method with its convergence study for partial differential equations
- Advanced Numerical Methods
- Computational Thermal Fluid Dynamics
- Heat and Mass Transfer in Energy Systems and in Nuclear Applications
- Multi-Phase Flows and Transport Phenomena in Porous Media
- Software learning

Short Term Training Programme
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1. Full Name (BLOCK LETTERS):
2. Gender: Male/Female:
3. Educational Qualifications:
4. Designation:
5. Teaching Experience:
6. Affiliation and Office Address (if any):

7. Address for Communication:

8. E Mail:

9. Telephone:

10. Do you need accommodation? (Yes/No):

11. Detail of DD with Date:

Date:

Place:

Signature of Applicant

HOD/Principal/Director

Address for Correspondence

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