VIT-AP UNIVERSITY

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3-Day Online Workshop on Advances in Applied Mathematics and Computational Methods

Date : 7th - 9th January, 2022

Organized by
Department of Mathematics
School of Advanced Sciences
VIT-AP University
Andhra Pradesh, India

Registration link:
https://vtop1.vitap.ac.in/AAMCM/Conferenceinitial

Last date for Registration : 5th January, 2022

Conveners: Dr. Satyanarayana Badeti & Prof. S Srinivas

Secretary: Dr. V. Ramakrishna Reddy

About VIT-AP University, Amaravati

VIT-AP University founded under the eminent guidance of Founder and Chancellor Dr. G Viswanathan has emerged as one of the promising and prominent academic institutes of India. Despite being a quite young institute, the excellent and unique quality of teaching-learning, research and innovations shows the aspiration of the institute to become a global leader. In fact, the outlook university ranking 2021 has ranked VIT-AP University as number 2 in the emerging private universities in India.

VIT-AP attracts students from almost all the states of India because of its academic excellence. The University comprises of 7 prominent schools viz., School of Computer Science and Engineering, School of Electronics Engineering, School of Mechanical Engineering, School of Advanced Sciences, School of Social Sciences and Humanities, School of Business and School of Law which house around 210 faculty members dedicated to fulfil the needs of various engineering and science departments. Almost all faculty members are doctorates and are actively involved in research activities in addition to the regular teaching activities.

About the Department of Mathematics

The Department of Mathematics at VIT-AP, has 32 dedicated faculty members with two exclusive programs in Data Science at the under gradual and post gradual level besides fulfilling the needs of the various engineering schools. All faculty members are doctorates and are actively involved in research activities in addition to their regular teaching activities. The department is instrumental as training the students to make them motivated and dedicated engineers and scientists.

The department offers research opportunities in a wide spectrum of areas of Mathematics such as Fluid Dynamics, Computational Fluid Dynamics, Solid Mechanics, Functional Theory, Network and Graph Theory, Fractal theory, Lie Algebras, Stochastic Processes, Coding Theory, Theory of Computation, Fuzzy Logics, Optimal Control Problems, Numerical Methods, Cosmology etc. The Department has contributed phenomenally to the rapid growth of the University.

About the workshop

The present workshop aims at highlighting the recent advances and developments in applied mathematics and computational methods. This workshop will provide a prominent platform for researchers interested in pursuing problems in the field of applied mathematics and help address real world problems. This workshop also draws focus and introduces modern mathematical software packages like MATLAB, MATHEMATICA and PYTHON that are essential in addressing the computational challenges arising in solving mathematical models.

List of Invited Speakers:

Dr. Ashwin Vaidya, Professor, Montclair State University, USA

Dr. YVSS Sanyasi Raju, Professor, IIT Madras

Dr. B V Rathish Kumar, Professor, IIT Kanpur

Dr. Harish N Dixit, Associate Professor, IIT Hyderabad

Dr. S Srinivas, Professor, VIT-AP University

Dr. Pradeep G Siddheshwar, Professor, CHRIST University, Bangalore

Dr. T. R. Ramamohan, Professor (Former Chief Scientist , CSIR), Ramaiah Institute of Technology, Bangalore

Dr E Natarajan, Associate Professor, Indian Institute of Space Science and Technology, Thiruvananthapuram

Dr. Byron Smith, Sr Scientist, Petrochemical Industry, Bangalore

Dr. BSRV Prasad, Assistant Professor (Sr), VIT University, Vellore

Dr. Anant Kant Shukla, Assistant Professor (Sr), VIT University, Bhopal

Mr. Ganesh Rathod, Wolfram Software

Topics covered:

- **Fluid Dynamics**
- **Computational Fluid Dynamics**
- **Continuum Mechanics and Vibration**
- **Wave Propagation**
- **HAM**
- **Mesh Free BVP**
- **Wavelets and its Applications**
- **Perturbation Techniques**
- **Python**
- **MATHEMATICA**

REGISTRATION FEE: **All interested participants are requested to pay 200/- Rupees with the following link**

- REGISTRATION PAYMENT LINK:

  https://vtop1.vitap.ac.in/AAMCM/Conferenceinitial

- After payment you are requested to register your details with the following link. Last date for registration is **05-01-2022**.
- **Registration Link** : **https://tinyurl.com/36u37d6z**
- **The E-certificates** will be provided to all the participants after successful completion of the workshop.
- **Online platform:** The workshop will be conducted online in **MS Teams**. Workshop schedule and online links will be provided to all registered participants on 05-01-2022.

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Prof. S. Srinivas **Mobile No : 9894243574**

Dr. V. Ramakrishna Reddy **Mobile No : 9133073225**

For queries, please send an email to **workshop.aamcm@gmail.com**

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