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Sri V Siva Kanna, Asst. Professor

Address for Correspondence

Dr. T. Srinivasa Rao,
Professor
Department of Mechanical Engineering
Vasireddy Venkatadri Institute of Technology,
Nambur (V), Pedakakani (M), Guntur - 522508.
Email: sr.tanneeru@gmail.com
Mobile: +91-9866515229

Registration Form

Name:_____

Designation:_____

Institution & Department:_____

_____

Address:_____

Qualification:_____

Experience : Teaching/Research:_____Years

Age:_____ Sex: Male/Female

Mobile:_____

Email:_____

Details of Registration Fee:

DD No. _____

Dated:_____Amount:_____

In words_____

Drawn on _____

Tel No:_____Mobile No: _____

Email : _____

Signature of the Candidate **Signature of the Head of the Institution**

Note:

***Accommodation will be provided on payment base, if needed.**

A One Week Faculty Development Programme on

COMPUTATIONAL FLUID DYNAMICS

29th April to 03rd May, 2018

VVIT
VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY

Organized by

Department of Mechanical Engineering

NBA Accredited, NAAC Accredited with 'A' Grade & Permanently Affiliated to JNTUK, Kakinada

Nambur(V), Pedakakani(M), Guntur-522508
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About the College

Vasireddy Venkatadri Institute of Technology (VVIT) was established in the year 2007, under the Social Educational Trust in Nambur village, Pedakakani (M) of Guntur district in the sun rising state of Amravati by the visionary Sri **VASIREDDY VIDYA SAGAR**. VVIT has self contained infrastructure, located amidst the lush green paddy and maize fields of Nambur village, situated strategically between Guntur and Vijayawada, away from the hustle and bustle of the city life. The college has NBA Accredited, NAAC Accredited college with 'A' grade and is permanently affiliated to JNTUK, Kakinada. VVIT offers 6 Under Graduate programmes and 7 Post Graduate programmes with an intake of 1140 students and ranks among the top three out of 200 Engineering Colleges affiliated to JNTUK, Kakinada. The teaching staff is about 260 with well qualified and varied experience. The faculty members take interest in continuing education and are actively engaged in research work. They also publish their findings regularly in standard National and International Journals. Some of the faculty members obtained awards for their paramount publications. In-house placement training team, absolute discipline, air-conditioned class rooms, multimodal teaching methodology, 100 kVA roof-top solar power plant to supply green power are the hallmarks of VVIT and make a distinctively different professional college. Siemens Centre of Excellence established by Andhra Pradesh Skill Development Corporation (APSSDC), provides state of the art training to the Mechanical, Electronics and Electrical Engineering faculty and students for improving their practical exposure to cater the needs of the present industry.

About the Department of Mechanical Engineering

The Department of Mechanical Engineering, established in the year 2011, offers a four year Under Graduate programme with an intake of 180 students and one Post Graduate programme in Machine Design with an intake of 18 students. Support by a strong faculty of 30 members, the department possesses highly advanced hardware and software tools. The department also provides ample opportunities to students to work on mini projects, develop communication skills, explore internship opportunities in industry and take active participation in the National and International design contests. The laboratories are well equipped with modern training facilities that cater to the requirements of the university syllabus.

Department Vision

To impart the knowledge of Mechanical Engineering with global perspectives for graduates to serve the industry in particular and the society at large through quality education and research.

Registration

Interested participants can send their registration forms in the prescribed format duly attested by the Head of the Institution along with the registration fee in the form of a demand draft, drawn in favour of "**Principal, VVIT**" payable at Guntur.

FDP Venue

CAD LAB,
Department of Mechanical Engineering (Block-D)
Vasireddy Venkatadri Institute of Technology,
Nambur, Guntur – 522508.

Registration fee per each participant: Rs 1000/-

Last date for registration: 26th April, 2018.

Resource Persons

Dr. SANTOSH DORESWAMY Ph.D (IISc)
Assistant Professor
RAMESH K (Ph.D, IISc), Assistant Professor,
DEVARAJ K (Ph.D, IITM), Assistant Professor,
BMS College of Engineering, Bangalore.

Objective of the FDP

The primary objective of the workshop is to help participants in learning CFD fundamentals by conducting numerical experiments using MATLAB and ANSYS-FLUENT.

Theme of the FDP Computational Fluid Dynamics (CFD) is a branch of fluid mechanics that uses numerical methods and its analysis along with data structures to solve and analyze problems that involve fluid flows and Heat Transfer. CFD aids in solving with accuracy and speed of those complex simulation scenarios such as hypersonic, transonic, turbulent flows & flow in nuclear reactors where experimental facilities are highly complicated and costly and some instances where experiments are not feasible. Initial numerical experiments are done in such cases with software or Codes before performing the experiments and it is also used to validate the data obtained using a wind tunnel experiments before the final validation being done on full-scale testing, e.g. flight tests.

Topics for Learning

- Methodologies for solving ODE and other matrix methods.
- Linear wave equation and its implementation in MATLAB.
- Coding of Laplace equation in 1D and 2D with various boundary conditions.
- Numerical simulation of 1D burgers equation to understand non-linear affects.
- Numerical simulation of 1D unsteady heat equation and convention diffusion equations.
- Standard numerical test problems in ANSYS-FLUENT.