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Sri Mohan Sreekanth V, *Asst.Prof.*

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Dr. M.R.Ch. Sastry, *Prof. & HoD*

Co-Coordination:

Sri B.V.S. Raghu Vasmi, *Sr.Gr.Asst. Prof.*

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AICTE-ISTE

Sponsored

Refresher Course



on

COMPUTATIONAL FLUID DYNAMICS

18th - 23rd June, 2018



Organized by

Department of Mechanical Engineering



GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent

Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village

Gudlavaluru-521 356, Krishna Dist. A.P.

(Approved by AICTE, New Delhi, Accredited by

NBA & NAAC with 'A' Grade)

Phone : (08674) 273737, 273888,

Fax : (08674) 273957

E-mail : hod.me@gecgudlavaluru.ac.in

Website : www.gecgudlavaluru.ac.in

The College:

The Gudlavalleru Engineering College was established in 1998 by A.A.N.M. & V.V.R.S.R. Educational Society, Gudlavalleru. The College, situated at Gudlavalleru is surrounded by lush green fields providing serene atmosphere to the learners. The college offers B.Tech. programme in six branches of Engineering, viz., Civil, EEE, ME, ECE, CSE & IT, and PG courses in MBA and M.Tech (SE), M.Tech (PEED), M.Tech (MD), M.Tech (ES), and M.Tech (CSE).

All the eligible UG engineering programmes are accredited by National Board of Accreditation (NBA), New Delhi. The college is accredited by NAAC with 'A' Grade. The college is also accredited by TCS.

The Department:

The Department of Mechanical Engineering was established in 1998 and is offering B.Tech course in Mechanical Engineering and M.Tech in Machine Design. The department has qualified and experienced staff and well equipped laboratories with the state-of-the-art facilities. Students of the department have added value to the department by getting placed in reputed core and software companies and by excelling in competitive examinations like GATE.

The Department is marching forward keeping pace with the technological advances in Mechanical Engineering.

Location:

Gudlavalleru is located on Gudivada - Machilipatnam route and is well connected by road and rail to Gudivada (10 kms), Machilipatnam (26 kms) and Vijayawada (55 kms).

About the Course:

Computational Fluid Dynamics (CFD) is a tool being extensively used in research as well as in industry for solving complex fluid flow and heat transfer problems. It has grown from a mathematical curiosity to become an essential tool in almost every branch of fluid dynamics from aerospace propulsion to weather prediction. This refresher course is intended to provide insight into the principles and engineering applications of CFD with hands on training in CFD modeling.

This course will help the faculty to teach the subject at his / her workplace and also be helpful to pursue research in the fields of fluid dynamics and heat transfer.

Course Content:

- ❖ Introduction to CFD.
- ❖ Governing equations of fluid flow and heat transfer.
- ❖ Introduction to discretization methods.
- ❖ Solution techniques for system of algebraic equations.
- ❖ Finite difference and finite volume methods for fluid flow and heat transfer problems.
- ❖ Solution techniques for Navier-Stokes equation.
- ❖ Introduction to commercial CFD code.
- ❖ Practical guidelines for CFD simulation and analysis.

Resource Persons:

The experts will be from DRDL, IIT's, NIT's and other premier University's and Institutions.

- ❖ Dr. **R. Krishna Murthy**, *Scientist 'G' DRDL, Hyd.*
- ❖ Dr. **B.V.S.S.S. Prasad**, *IITM, Chennai*
- ❖ Dr. **S. Anil Lal**, *GEC, Thiruvanthapuram*
- ❖ Dr. **K. Arul Prakash**, *IITM, Chennai*
- ❖ Sri **G.R.K. Gupta**, *NITW, Warangal*
- ❖ Dr. **D. Jaya Krishna**, *NITW, Warangal*
- ❖ Dr. **R. Subba Rao**, *NITTTR, Kolkata*
- ❖ Dr. **B.V.N. Ram Kumar**, *Rolls-Royce, Bangalore*

Eligibility:

Faculty of AICTE approved Engineering Colleges and Post Graduate Students

Registration:

The participants have to send their registration form in the prescribed format duly attested by the Head of the Institution. There is no registration fee for the participants.

REGISTRATION FORM

**AICTE-ISTE Sponsored
Refresher Course**

on

"COMPUTATIONAL FLUID DYNAMICS"

18th - 23rd June, 2018

1. Name:
2. Designation:
3. Qualification:
4. Specialization:
5. Experience:
6. Address:
7. Mobile No :
8. E-mail :
9. Accommodation required: Yes/No

Applicant's Signature

SPONSORING AUTHORITY

The applicant Dr./ Mr./ Ms. _____
_____ from our Institution is
sponsored to attend the AICTE-ISTE Sponsored
Refresher Course.

Place:

Date:

*Signature of
Head of the Institution
(with Seal)*