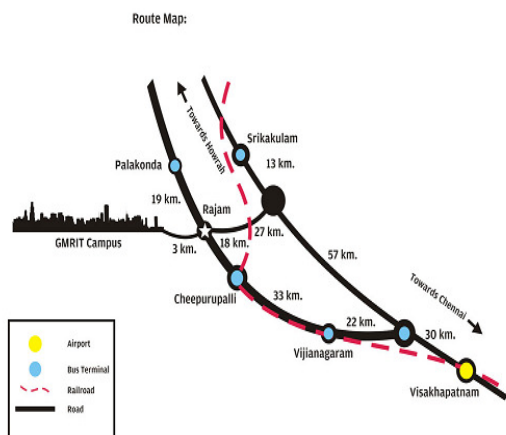


### Institution:

Established in the year 1997 under the aegis of GMR Varalakshmi Foundation, GMR Institute of Technology is a self-financing Autonomous Engineering college approved by the All India Council for Technical Education (AICTE). The institute is accredited by **NAAC with 'A' Grade**. All UG programs are accredited by **NBA**. It is an **ISO 9001:2008 Certified Institution** and affiliated to Jawaharlal Nehru Technological University, Kakinada.

Located in Rajam, Srikakulam district of Andhra Pradesh, GMRIT provides its learning community state-of-the-art facilities, infrastructure and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real world experiences.

### Route Map:



### Organizing Committee

#### Patron

Dr. V. Raghunathan  
CEO- GMR Varalakshmi Foundation

#### Chair

Dr. C.L.V.R.S.V. Prasad  
Principal, GMRIT

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Dr. B. Biswal (Assoc. Dean, R&D)  
Dr. M. V. Nageswara Rao (Assoc. Dean, F&S)

#### Organizing Secretary

Dr. M. Gangadhar

#### Organizing Committee Members

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Dr. R. Srikanth  
Prof. V. Srinivasa Rao  
Dr. S. N. Dash  
Dr. P. Kalpana  
Ms. G. Kalyani  
Mr. P. Satya Sagar  
Dr. G. Babu Rao  
Mr. H. Joga Rao  
Mr. B. Niranjana Rao

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Two Day National

Seminar

on

*Computational Fluid Dynamics  
Applications in Process*

*Industries:*

*Recent Developments 2k16*

15<sup>th</sup> – 16<sup>th</sup> April, 2016

Sponsored by

**Department of Science & Technology**

Organized by

**Department of Chemical Engineering  
GMR INSTITUTE OF TECHNOLOGY**

(An Autonomous Institute Affiliated to

JNTUK-Kakinada)

**GMR Nagar, Rajam – 532 127**

**Srikakulam (Dist.)**

**Andhra Pradesh, INDIA**

Visit us at [www.gmrit.org](http://www.gmrit.org)

**Objective:**

Computational Fluid Dynamics (CFD) is a methodology for computer simulation of fluid mechanics and heat transfer problems. The simulation results in prediction of the flow fields in the domain of interest, and of engineering parameters, which are very useful in the design and optimization of processes and equipment. It is an open ended application of undergraduate core courses of fluid mechanics and heat transfer. CFD reduces the time and cost for designing and analyzing engineering systems, and is slowly becoming part and parcel of Computer Aided Engineering (CAE). In academics, CFD is taught in different branches of engineering: aerospace, chemical, civil, mechanical, and metallurgy. In industry, CFD is rapidly developing as a powerful analysis tool used in diverse areas like aerospace, automobile, turbo-machinery, chemical, electronics cooling, bio-medical, etc. The increasing importance of CFD simulation software development, application, and analysis, in the Indian industry and research organizations, along with the lack of trained manpower in this area, has greatly increased the significance of this course. However, there is a lack of trained teachers for this course.

The objective of this course is to introduce the fundamentals of CFD, to know and understand the applications of CFD in multidisciplinary topics and to interact with eminent persons and get acquainted with the available CFD Packages.

**Thematic Areas:**

- Fundamentals of CFD ingredients and overview of open source CFD softwares.
- Best practices of CFD in the fields of Food Security, Energy and Environment.
- CFD analysis procedure (Preprocessing, Solving & Post processing).
- Industrial applications with recent advancements in CFD: Case studies from process industries.
- Validation of CFD results and report preparation Global status of CFD in Engineering Applications: A Glimpse.
- Perspectives and future directions in CFD.

**Call For Papers:**

Original research papers are invited from Practicing engineers from industry, CFD researchers in academia, Scientists and Research Engineers, CFD Teachers and consultants, CFD software developers and users over the above Research Scholars, PG and UG students. For more details, please visit our website.

**Registration:**

Faculty from Academics : Rs.750/-  
Industrial participants : Rs.1500/-  
Research Scholars & PG students : Rs. 500/-

**Mode of Payment:**

All Payments should be made by demand draft in favor of "The Principal, GMRIT" payable at Rajam and it should reach on or before 24<sup>th</sup> March, 2016 along with the registration form to the workshop coordinator mailing address.

**Important Dates:**

Submission of abstract : 20<sup>th</sup> March 2016  
Intimation of acceptance : 24<sup>th</sup> March 2016  
Submission of full paper : 25<sup>th</sup> March 2016

**Boarding & Lodging:**

The registration fee includes boarding & lodging during their stay at GMRIT, RAJAM. However, on campus accommodation will be provided on first cum first serve basis subject to availability.

**Key Note Lectures:**

Key note lectures will be delivered by renowned persons from industry and academia working in the field.

**Registration Form**

**Two Day National Seminar on  
*Computational Fluid Dynamics  
Applications in Process  
Industries: Recent Developments  
2k16 (CFDAPIRD-2k16)***

15<sup>th</sup> – 16<sup>th</sup> April, 2016

Participant's Name :  
Qualification :  
Department :  
Organization :  
Address for  
Communication :  
Phone No. (O) :  
(R) :  
E-mail :

Registration fee: Rs \_\_\_\_\_/- by DD in  
favor of "The Principal, GMRIT, Rajam"  
DD No.: \_\_\_\_\_ Date: \_\_\_\_\_

Accommodation required:  
Yes/No

Date: \_\_\_\_\_ Signature of Participant  
\_\_\_\_\_

**Sponsorship Certificate**

This is to certify that Dr./ Er./ Mr./ Ms.  
\_\_\_\_\_ is an  
employee of our institution since  
\_\_\_\_\_ and is hereby sponsored to  
attend the seminar on '**Computational Fluid  
Dynamics Applications in Process  
Industries: Recent Developments  
(CFDAPIRD-16)**' during 15<sup>th</sup>-16<sup>th</sup> April, 2016 at  
GMRIT, Rajam, Srikakulam.

Place: \_\_\_\_\_ Signature  
Date: \_\_\_\_\_ Head of the Institution