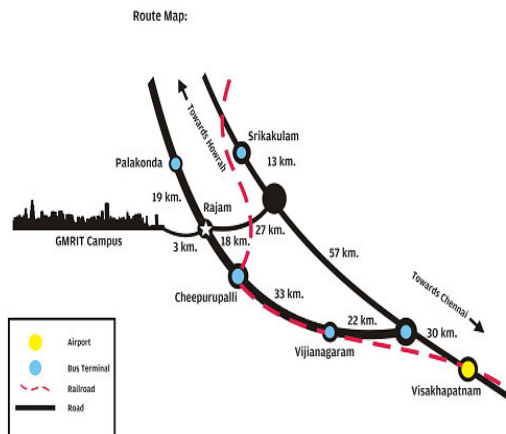


## INSTITUTION:

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 & ISO 9001:2008 Certified Institution**, 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:



## ORGANISING COMMITTEE

### CHIEF PATRON

Dr. V. Raghunathan  
CEO- GMR Varalakshmi Foundation

### PATRON

Dr B.S.Nagendra Parashar  
Director (Education)/Provost, GMRVF

### CHAIRPERSON

Dr. C.L.V.R.S.V. Prasad  
Rector & Principal

### ADVISOR- BOARD

Dr. S.V.Ramana, Prof. & Assoc. Dean (A)  
Dr.Birendra Biswal, Prof. & Assoc. Dean (R & D)  
Dr.M.V.Nageswara Rao, Prof.& Assoc. Dean (S & F)

### CONVENERS

Dr.V.Rambabu, HOD, Dept. of Mech.Engg.  
Dr.D.Krishna Rao, HOD, BS&H

### COORDINATORS

Dr.R.Umamaheswara Rao  
Asso. Professor, Dept. Of Mech.Engg.  
Dr. K.Srinivas  
Asso. Professor, Dept. Of BS&H

### MEMBERS

Dr. P.Ramesh Babu  
Mr.K. Prasada Rao  
Mr.M.Anil Kumar  
Dr.M.P.Srinivasa Rao  
Mr.P.Eswaraji  
Mr.M.Srikanth

### MAILING ADDRESS

Dr.R.Umamaheswara Rao  
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## Two-day National Workshop

On

**‘Applications of Nano-materials for Sustainability’**

**22<sup>nd</sup> – 23<sup>rd</sup> March, 2014**

Organized by

**Department of Mechanical Engineering  
&  
Department of Basic Sciences and  
Humanities (Engg. Physics) in association  
with ASME**

**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:**

In the words of Eric Drexler, who first coined the word *Nanotechnology*, the field of Nanoscience and Nanotechnology encompass remarkable inventions and perhaps will change the world in the coming years. Currently, the world wide investment in Nanotechnology is about 15 billion dollars and is expected to double in the next few years. Nanotechnology has now become a general purpose technology or an enabling technology with collaborations taking place across the science and engineering disciplines.

This workshop discusses the major applications of Nanoscience and Nanotechnology particularly, nanomaterials manufacturing and their applications in various disciplines of Engineering and Technology. It also provides a platform for meeting teaching faculty of engineering colleges with eminent resource persons from various disciplines of Nano Science /Technology. Since this area is changing at a rapid rate, it is important for people both in academics and industry to keep themselves up to date with the current status and challenges of Nanotechnology.

The goal of this workshop is to enhance the knowledge of faculty, students and industry professionals in the area of Nano-materials and encourage scientific research in this fast growing field.

### **Workshop covers:**

- Introduction to Materials at the Nano scale
- Nano composites & Carbon Nano Tubes
- Chemical synthesis and processing of Nanomaterials
- Modeling of aging of nanopolymeric materials
- Structural Characterization
- Recent applications of Nanotechnology

### **RESOURCE PERSONS:**

1. **Dr. Krishna Kannan**  
Professor, Dept. of Mech.Engg., IIT Madras, Chennai.
2. **Dr. P.K. Jain,**  
Scientist "F" & Team Leader, ARCI Hyderabad.
3. **Dr. K.Ramji,**  
Professor, Dept. of Mech.Engg., A.U Visakhapatnam.

### **ELIGIBILITY:**

Faculty members of any branch of Engineering /Engineering Physics & Chemistry / Researchers / Practicing Engineers/PG students are eligible.

### **REGISTRATION:**

Faculty from Institutions : Rs. 1000/-  
Research Institutions : Rs. 1250/-  
Industrial participants : Rs. 1500/-  
PG students & Ph.D Scholars : Rs. 500/-  
Participants can register by sending the registration form along with Demand Draft in favour of "Principal, GMRIT" payable at Rajam and it should reach on or before **15<sup>th</sup> March, 2014** to the workshop coordinator mailing address.

### **BOARDING & LODGING**

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

### **REGISTRATION FORM**

#### **Two-day National Workshop**

#### **On 'Applications of Nano-materials for Sustainability'**

22<sup>nd</sup> – 23<sup>rd</sup> March, 2014

Participant's Name: \_\_\_\_\_

Qualification: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for  
Communication: \_\_\_\_\_

Phone No. (O): \_\_\_\_\_  
(R): \_\_\_\_\_

e-mail : \_\_\_\_\_

Registration fee : Rs -----/- by DD in favour of  
"Principal, GMRIT" .

DD No.: \_\_\_\_\_ Date: \_\_\_\_\_

Accommodation required: Yes/No

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

### **SPONSORSHIP CERTIFICATE**

This is to certify that Mr. / Ms \_\_\_\_\_  
\_\_\_\_\_ is an employee of our institution  
since \_\_\_\_\_ and is hereby sponsored to attend the  
Workshop on 'Applications of Nanomaterials for  
sustainability' at GMRIT, Rajam, Srikakulam during the  
period 22<sup>nd</sup> – 23<sup>rd</sup> March, 2014.

Place: \_\_\_\_\_ Signature \_\_\_\_\_

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