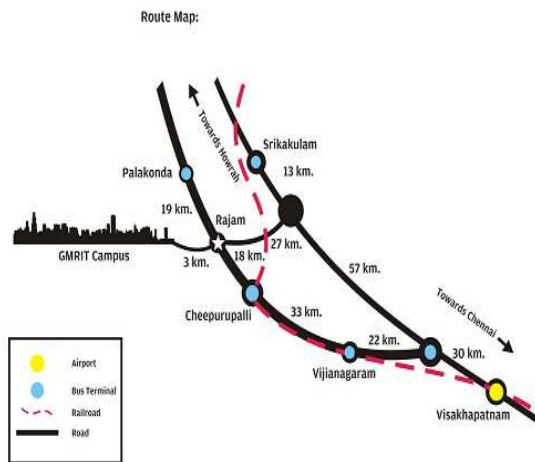


## INSTITUTION:

Established in the year 1997 under the aegis of GMR Varalakshmi Foundation, GMR Institute of Technology is an Autonomous Institute **Accredited by NBA, NAAC-A grade & an 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. Nagendra Parashar  
Director-Education

### CHAIRPERSON

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

### ADVISORS

Prof. B.I. Neelgar (HOD - ECE)  
Dr. Birendra Biswal (Professor-ECE)  
Prof. M.V. Nageswara Rao (ECE)

### CONVENER

Mr. B.Anil Kumar(ECE)

### MEMBERS

Mr. D Tirumala Rao(ECE)  
Mr. P.M.K Prasad(ECE)  
Mr. V Jagan Naveen(ECE)  
Mr. G.Manmadha Rao(ECE)  
Mr. G.B.S.R. Naidu (ECE)  
Mr. L. Govinda Rao (ECE)  
Mrs.T.Geetamma(ECE)  
Mr. P.Devipradeep(ECE)  
Mr. D.Srinivasa Rao(ECE)  
Mr.J.V.Suman(ECE)

### MAILING ADDRESS

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## Two-day National Workshop

On  
Embedded Systems  
&  
Real Time Operating Systems

**(ESRTOS-2012)**

**16<sup>th</sup> – 17<sup>th</sup> November, 2012**



Organized by  
Department of ECE

**GMR INSTITUTE OF TECHNOLOGY**  
**GMR Nagar, Rajam – 532 127**  
**Srikakulam (Dist.)**  
**Andhra Pradesh, INDIA**

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

## **OBJECTIVE:**

Embedded systems have an increasing importance in our everyday lives. They run our cars and telephones, production lines and aircraft, etc... The growing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to overcome these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget.

The main objective of this workshop is to present mature approaches and to provide a forum for the exchange and discussion of ideas, expertise and experiences on advances of smart embedded systems, Embedded Networking, real time operating system, security, prototypes, field studies and application among scientists researchers, practitioners, and application developers both from industry and academia from various parts of our country. In this the workshop will endeavor to prepare models of Instruction Laboratory, R&D Laboratory, Advance Course, with a view to ensure preparedness of the engineering graduates leaving our educational institutes to meet the market expectations and strengthen the position of the country as a hub of R&D on Embedded Systems. Presentations and demonstration of the hardware/software development platforms and tools by some vendors have also been arranged on this occasion.

## **WORKSHOP TOPICS:**

### **Hands on with ARM:**

- ARM Architecture and Organization
- ARM Assembly Programming
- THUMB Assembly Programming
- ARM-THUMB Interworking
- Embedded C Programming
- Exception Handling
- ARM Tool chain (Assemblers, Compilers, Linkers & Debuggers)
- Experiments on ARM

### **Networking in Embedded Systems:**

- TCP/IP Protocol stack
- Ethernet
- Wi-Fi
- GSM/GPRS modem
- DSL/Cable Modem

### **Real Time Operating Systems:**

- Introduction to RTOS
- Structure of RTOS
- Porting of RTOS
- Experiments on RTOS

### **GPS Navigation**

## **RESOURCE PERSONS**

1. Prof. Gottapu Sasi Bhushana Rao, Professor & HOD, Department of ECE, College of Engineering, Andhra University, Visakhapatnam.
2. Mr.Srinivasulu Karasala, Director, DEPIK Technologies Pvt Ltd, Hyderabad.
3. Mr.Manjunath.P, Director, Innovate Software Solutions Pvt. Ltd, Bangalore.

## **ELIGIBILITY**

Faculty members of Engineering / Polytechnic colleges approved by AICTE / Researchers / Practicing Engineers/Final Year students are eligible.

## **REGISTRATION:**

Faculty from Institutions : Rs. 600/-  
Research Institutions : Rs.1000/-  
Industrial participants : Rs.2000/-  
PG students & Ph.D Scholars : Rs. 400/-

Participants can register by sending the registration form along with demand draft in favor of Principal, GMRIT payable at Rajam and it should reach the Coordinator on or before **10<sup>th</sup> Nov 2012** to

**Mr. B.Anilkumar**  
**Convener (ESRTOS-2012)**  
**Department of ECE,**  
**GMR Institute of Technology,**  
**Rajam – 532 127,**  
**Srikakulam (Dist), Andhra Pradesh.**

## **BOARDING & LODGING**

The registration fee includes Registration Kit, boarding & lodging during their stay at GMRIT, RAJAM.

## **GMR Institute of Technology GMR Nagar, Rajam, Srikakulam(Dist.), A.P, 532127 (ESRTOS-2012) Registration Form**

Name:

Designation:

Institute/Industry:

Contact Address:

I would like to participate as (Please put  mark in the appropriate place)

Academic  Industry  Students

Email:

Phone Number

Demand Draft: in favor of (Principal,GMRIT, Payable at Rajam)

Payment details:  
DD No:

Date:

Drawn on Bank:

Place: Amount

## **SPONSORSHIP CERTIFICATE**

This is to certify that Mr. / Ms \_\_\_\_\_  
\_\_\_\_\_ is an employee of our  
institution since \_\_\_\_\_ and is hereby  
sponsored to attend the ESRTOS-2012.

On  
Hands on with ARM, Real Time Operating  
Systems, GPS in Embedded Systems and  
Networking in Embedded Systems

At GMRIT, Rajam, Srikakulam during the period  
16<sup>th</sup> – 17<sup>th</sup> November, 2012.

Place:  
Date:

Signature of Head  
of the Institution