



**G**MR Institute of Technology is situated at Rajam, a small industrial town about 100 Kms from the 'city of destiny', Visakhapatnam in Andhra Pradesh. The campus of the institute is spread over a sprawling 117 acres of land. The lush sylvan and idyllic surroundings at the heart of the agricultural belt, offer an ideal setting for higher studies. The institute is affiliated to the Jawaharlal Nehru Technological University, Kakinada and is approved by AICTE New Delhi. The institute has been accredited by National Board of accreditation (NBA) of AICTE and NAAC – 'A' grade of UGC. The institution is also having ISO 9001:2008 Quality Systems Certification.

The annual intake of the institute is 828 students. It has eleven batches of successful B.Tech graduates taking up positions as competent and responsible professionals in many reputed companies.

GMRIT offers 4 year B.Tech programs in seven core disciplines, 3 year MCA program and 2 year M.Tech programs in six specializations.

### Courses currently offered:

#### U.G. Courses:

- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engg.
- Electrical and Electronics Engineering
- Information Technology
- Mechanical Engineering

#### P.G. Courses

- M.Tech (Power & Industrial Drives)
- M.Tech (Transportation Engineering)
- M.Tech (CAD/CAM)
- M.Tech (CSE)
- M.Tech (Digital Electronic & Comm. Sys)
- M.Tech (VLSI Design) : Second Shift
- MCA

#### INSTITUTE RELATED

- **Tripartite MOU** between JNTUK-MAS GMR and Perth College UHI was signed on 13<sup>th</sup> May to offer dual degree with 2+2 twinning programme B Eng in Aircraft Engg.
- **MOU** was signed with ERI to establish CoE in Environmental science and Engg. on 14<sup>th</sup> May 2011
- **Ranked 71<sup>st</sup>** in top 75 engg colleges in India by Outlook magazine.
- Guest lecture on **"An Odyssey with Camera Interaction with Globe Trotter"** by Mr. **B. Ashok**, an amateur travel writer and photographer from Madrid, Spain who had worked for the prestigious **"Incredible India"** project on 28<sup>th</sup> June 2011 at 4:30 PM.
- **Faculty from EEE, Mechanical and Civil branches** participated in an interactive meeting with GMR Airport officials at Hyderabad for conducting **Add-on-Courses** at GMRIT on 9<sup>th</sup> & 10<sup>th</sup> June 2011.

- Department of Civil Engg conducted Staff Development Program (SDP) sponsored by AICTE on “**Condition Assessment and Retrofitting of Concrete Structures**” (CARCOS-2k11) during 30<sup>th</sup> May – 11<sup>th</sup> June 2011.
- **Guest lecture on “Advances in Process Planning & Special Casting Process”** by Dr. P N Rao, Northern Iowa University, USA is organized for 4<sup>th</sup> B.Tech Students during 11<sup>th</sup> to 16<sup>th</sup> July 2011.
- Six faculty members from departments of Mechanical, Civil, EEE and Chemical engineering attended a training program on Add-on Course at GHAIL, Hyderabad during 3<sup>rd</sup> to 6<sup>th</sup> July 2011.
- Dr C L V R S V Prasad attended a **two day leadership training program** on 16<sup>th</sup> and 17<sup>th</sup> July conducted by Wipro Mission 10X at Bhubaneswar.
- Wipro “**Mission 10X**” training program was conducted for thirty faculty members of GMRIT during 19<sup>th</sup> to 23<sup>rd</sup> July 2011.
- 9<sup>th</sup> to 11<sup>th</sup> Aug, 2011: GMRIT conducted a faculty development program by Mr.P.M.Kumar & Mr.Pankaj from People Builders (Mentors) in two spells.
- AICTE approved for one new PG program “**VLSI AND EMBEDDED SYSTEMS DESIGN**” in ECE for 2011-12
- Department of CSE conducted “**IBM DB2 Associate workshop**” for CSE and IT faculty.
- AICTE Expert visiting committee inspected the college for the approval of four M.Tech programs in 2<sup>nd</sup> shift.
- Face book page on GMRIT was opened. 149 ex- students are “friends” & 196 ex-students are followers.
- Dr. Birendra Biswal appointed as an **External Examiner** (for PG Thesis) – The Master of Engineering Science at **UNIVERSITY TUNKU ABDUL RAHMAN** (UTAR) Kuala Lumpur, Malaysia.
- **Amateur FM Radio Client Station** under the Project “**Amateur Radio Advanced Digital Communication Networks**” was installed at ECE lab by National Institute of Amateur Radio, Dept of IT, Govt of India on 19<sup>th</sup> July 2011

## WORKSHOPS

- **30<sup>th</sup> May – 11<sup>th</sup> June, 2011:** Civil Department started SDP Sponsored by AICTE on “**Condition Assessment and Retrofitting of Concrete Structures**” Chief Guest was Prof. N.V. RAMANA RAO, Principal, College of Engineering JNTU, Hyderabad.
- Department of ECE conducted a One day Workshop on “**Overview of Amateur FM Radio Client Station**” by National Institute of Amateur Radio, Department of IT Govt of India, Hyderabad on 19<sup>th</sup> July 2011

## ACADEMIC ACHIVEMENTS

### Technical Paper Publication in Conferences

- Dr. R.Suryanarayana presented a paper titled “**Some New Inequalities for the Generalized E-Gamma, Beta and Zeta Functions**” in the conference organized by Department of Engineering Mathematics, A.U.College of Engineering, AU, Visakhapatnam on 29<sup>th</sup> & 30<sup>th</sup> June 2011.
- Mr. S. V. Ramana presented a research paper entitled “**A metal cutting approach to investigate the tribological properties of nano crystalline boric acid and the effect of its carrying medium**” at 13<sup>th</sup> CIRP Conference on modeling of machining

## ACHIEVEMENTS

- Civil Dept got a grant of Rs 14.9 lakhs from AICTE under MODROBS

operations held at **Catholic University of Portugal, Sintra.**

- Mr. A. Appa Rao presented a paper titled **“Fuzzy Logic Based Speed Controller for Vector Controlled Cage Induction Motor Drive”**, in the National Conference on “Design, Operation and Control of Distribution Systems”, HITS, Bogaram, Hyderabad, 26<sup>th</sup>, 27<sup>th</sup> May 2011.
- Mr. M.Eswara Rao, presented a paper titled **“Integrating English Classroom with Web resources”** in 6<sup>th</sup> International conference organized by VIT University, Vellore during 16 to 18 July 2011.
- Ms. Ruksana Parveen, presented a paper titled **“Teacher Development: As a lifelong learner and his role in the 21<sup>st</sup> Century class room”** in 6<sup>th</sup> International conference organized by VIT University, Vellore, during 16 to 18 July 2011.
- Mr. K Krishna Kishore presented a paper titled “Design of Radar Waveform for Multi Target Detection” at International **conference** on Technology and Innovation ICTI 2011 at Green Park, Chennai on 26th July 2011.
- Mr. J.Vasudeva Rao presented a paper titled **“Performance Evaluation of Dynamic Routing Protocols in MANETS” & “A Comparison of Mobile Agent and Client-Server Paradigms for Information Retrieval”** Nanoscience, Engineering & Advanced Computing (ICNEAC-2011) Swarnandhra College of Engineering, Narsapur, W.G.Dist., A.P during 08<sup>th</sup> to 10<sup>th</sup> July 2011
- Ms.G.Anuradha & Ms. M.Vijaya Bharathi, presented a paper titled **“Survey on real world web”** Nanoscience, Engineering & Advanced Computing (ICNEAC-2011) Swarnandhra College of Engineering, Narsapur, W.G.Dist.,A.P during 08<sup>th</sup> to 10<sup>th</sup> July 2011
- Ms. R.Madhuri, presented a paper titled **“Data Clustering using K-means Algorithm for predicting appropriate K-value using Genetic Algorithm”** in the

**International Conference** on Nanoscience, Engineering & Advanced Computing (ICNEAC-2011) Swarnandhra College of Engineering, Narsapur, W.G.Dist.,A.P during 08<sup>th</sup> to 10<sup>th</sup> July, 2011

- Mr.K.Koteswara Rao presented a paper titled **“An Overview on Soft Computing Techniques” “Error Correction in Function Point Estimation Using Soft Computing Technique”** in International conference on High performance Architecture & Grid computing during 19<sup>th</sup> to 22<sup>nd</sup> July 2011 Chitkara University, Punjab

## **PUBLISHED IN JOURNALS**

- Dr. Birendra Biswal published a paper in **International Journal** titled **“Time Frequency analysis and FPGA implementation of Modified S – Transform for De – noising”** - International Journal of Signal Processing, Image Processing and Pattern Recognition, Volume 4, No.2, May 2011.
- Prof. B.I.Neelgar published a paper in **International Journal** titled **“Impedance Characteristics of Log Periodic Antenna”** – International Journal of Computer Applications (0975 – 8887) Volume 21, No. 1, May 2011.
- Mrs. P. Kalpana published a paper in International Journal titled **“Augmentation of Mass Transfer Coefficient in Decaying Swirl Flow”**, Asian Journal of Chemistry, Volume 23, No. 5 (2011), PP: 2128 – 2130.
- Mr. M.Gangadhar published a paper **“Kinetic Studies of Free Fatty Acids Esterification in Unrefined Palm Kernel Oil”** in International Journal of Environmental Science Development & Monitoring, Volume 1, Number 1 (2010), pp. 93-101.
- Mr. M.Gangadhar published a paper entitled **“Studies on Filtration Characteristics of Lime Using Discontinuous Pressure Filter”** in International Journal of

Engineering Studies, ISSN 0975- 6469, Volume 2, Number 4 (2010), pp. 485-490.

- Mr. M.Gangadhar published a paper entitled **“Mass Transfer in Circular Conduit with Co-Axially Placed Serrated Disc as Turbulence Promoter”**, in International Journal of Engineering Research and Technology, ISSN 0974-3154, Volume 3, Number 3 (2010), pp. 863-874.
- Mr. M.Gangadhar published a paper entitled **“Momentum Transfer Analysis in Circular Conduit with Coaxially Placed Serrated Disc as Turbulence Promoter”**, in International Journal of Engineering Research and Technology, ISSN 0974-3154, Volume 3, Number 3 (2010), pp. 875-885.
- Mr. B.Niranjana Rao & Mr. M.Gangadhar published a paper entitled **“Development of Model on Batch Grinding Characteristics of Raw Coal”** in International Journal of Applied Environmental Sciences, Volume 5, Number 6(2010), PP: 861-872.
- Mr. A. Appa Rao published a paper titled **“Optimum Compensation to Improve EHV Line Performance”**, in the International Journal of Power system operation and energy management (IJPSOEM).Volume–I,2011.
- Mr. A. Appa Rao published a paper titled **“New Formulation for load flow solution of Power systems with series FACTS Devices”**, International Journal of Power system operation and energy management (IJPSOEM). Volume – I, 2011.
- Mr. A. Appa Rao published a paper titled **“Simulation of two level and three level inverters using space vector pulse width modulation (SVPWM)”**, in International Journal of Power System Operation and Energy Management (IJPSOEM). Volume – I, 2011.
- Mr. V.Jagan Naveen published a paper titled "Generation of Nakagami Fading Signals with arbitrary correlation and fading parameters" in International Journal of

Future generation communication and networking published by SERSC, Korea, Volume 4, No.2, June 2011 pages 49 - 68.

- Ms. P.Kalpna published a paper titled **“Kinetic Modeling of Biosorption of Cadmium by Syzygium Cumini (L.) from Aqueous Solution”** in IUP Journal of Chemical Engineering, Volume III, Number 2 (2011), pp. 25-31.
- Mr. M.Ramakrishna Murthy published a paper **“Text Document Classification based-on Least Square Support Vector Machines with Singular Value Decomposition”** in an International Journal of Computer Applications, Volume 27-No.7, August 2011
- Mr. R.Umamaheswarao Rao published a paper **“A Study on the influence of hot press forming process parameters on mechanical properties of green composites using Taguchi experimental design”** in a International Journal of Engineering, science and technology, Vol. 3, No. 4, 2011, p.253-263

## WORKSHOPS ATTENDED

- **12<sup>th</sup> May 2011:** Mr. S. V. Ramana has attended 13<sup>th</sup> CIRP Conference on **“modeling of machining operations”** held at Catholic University of Portugal, Sintra.
- **13<sup>th</sup> May 2011:** Dr. VJJ Prasad has attended for DST PEC meeting at INSA Delhi on 13<sup>th</sup> May, 2011 and presented Project Proposal entitled **“Experimental Investigations over the extraction of bio-diesel from micro-algae and its implementation as an alternative fuel”**.
- **16<sup>th</sup> May 2011:** Mr. M. Satish, Mr. B. Kishore, & Mr. M. Balajee attended 14 days AICTE Sponsored SDP on **“Cloud Computing”** conducted by M A M College of Engineering, Tiruchirapalli from 16<sup>th</sup> May to 29<sup>th</sup> May 2011.
- Mr.T.Prabhakar attended AICTE sponsored QIP short term course on **“Medical Signals**

**and Image Processing"** at IIT Rourkee, during 13 to 17 June 2011.

- Dr. VJJ Prasad has attended for DST Sponsored SERC School on Combustion in **"Energy Sector organized"** by IIT, Bombay during 7<sup>th</sup> to 11<sup>th</sup> June 2011.
- Mr. A.Prasad, Mr. P.Satya Sagar and Mr. M.Gangadhar have attended an SDP on **"Condition Assessment and Retrofitting of Concrete Structures"** (CARCOS-2k11) in Civil Department at GMRIT, Rajam.
- Mr. P.Devendra, J.S.V. Siva Kumar (EEE) presented a paper titled **"Simulation Studies on MRAC Technique for the Vector Controlled Permanent Magnet Synchronous Motor Drive"** at International Conference on 'Nanoscience, Engineering & Advanced Computing' (ICNEAC-2011), Swarnandhra College of Engineering & Technology, Visakhapatnam, during 8<sup>th</sup> to 10<sup>th</sup> July 2011.
- Mr. S. N. Dash published a paper **"The use of phosphoric acid –activated carbon of Shorea Robusta Leaf litter in Ni (II) and Pb (II) removal from Aqueous Solutions"** in a National Journal of Techno Insight
- Mr.J.V.Suman attended 3day National Workshop on **"Non-Linear (Electronic) systems and its applications"** at VIT University, Vellore, Tamil Nadu during 06<sup>th</sup> to 8<sup>th</sup> July 2011.
- Mr. R.Srikanth and Mr. A.Prasad attended AICTE sponsored Faculty Development Programme on **"Modeling and Simulation for Rapid Progress in Chemical Engineering"** at Dept. of Chemical Engineering R.V.R. & J.C. College of Engineering, Chowdavaram, Guntur on 16<sup>th</sup> July 2011.

## DEPARTMENTWISE ACTIVITIES

### Dept. of Civil Engg.

- A three day **"Entrepreneurship Development Programme"** facilitated by

MSME was conducted by the dept of Civil Engineering from 28<sup>th</sup> to 30<sup>th</sup> July 2011 for IV B.Tech., Students.

- A Guest Lecture for (M. Tech Transportation Engineering Students) was conducted on the topic **"Pavement Design Evaluation and Strengthening"** by **Dr. S.K. Rao, Chief Consultant R&D, EPC Division, GMR Infra** on June 30<sup>th</sup> 2011. at 10.00AM.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty and HOD.

### Dept. of CSE

- A three day **"Entrepreneurship Development Programme"** facilitated by MSME was conducted by the dept of CSE from 28<sup>th</sup> to 30<sup>th</sup> July, 2011 for IV B.Tech., Students.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty Members and the HOD.
- Conducted Seminar on **"Qualnet Simulator"** by Mr.Anand, Nihon Communication Solutions Pvt.Ltd. Bangalore for IT & CSE Faculty on 23-06-2011 under CSI Activities.
- Guest lecture on **"Wireless Communications"** by Prof S.Venkateswarlu, Professor & Head-CSE, KL University Vijayawada is organized for final year Students under ISTE Students Chapter activities.

### Dept. of ECE

- A three day **"Entrepreneurship Development Programme"** facilitated by MSME was conducted by the dept of ECE from 28<sup>th</sup> to 30<sup>th</sup> July, 2011 for IV B.Tech., Students.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty Members and the HOD.



- A Guest Lecture on **"Way forward-2011"** was organized by T&P Cell on 28.06.2011 at 10.50AM to 12.30PM for IV B.Tech ECE students at A/C auditorium .

### Dept. of IT

- A three day **"Entrepreneurship Development Programme"** facilitated by MSME was conducted by the dept of IT from 28<sup>th</sup> to 30<sup>th</sup> July 2011 for IV B.Tech., Students.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty Members and the HOD.
- Conducted Seminar on **"AN OVERVIEW OF ARTIFICIAL INTELLIGENCE"** by Mr.G.Swain to B.Tech. III & IV year Students on 25-06-2011 under CSI Activities.

### Dept. of EEE

- A three day **"Entrepreneurship Development Programme"** facilitated by MSME was conducted by the dept of EEE from 28<sup>th</sup> to 30<sup>th</sup> July 2011 for IV B.Tech., Students.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty Members and the HOD.

### Dept. of Chemical Engineering.

- A three day **"Entrepreneurship Development Programme"** facilitated by MSME was conducted by the dept of Chemical Engineering from 28<sup>th</sup> to 30<sup>th</sup> July 2011 for IV B.Tech., Students.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty Members and the HOD.

### Dept. of Mechanical Engineering

- A three day **"Entrepreneurship Development Programme"** facilitated by MSME was conducted by the dept of Mechanical Engineering from 28<sup>th</sup> to 30<sup>th</sup> July, 2011 for IV B.Tech., Students.
- Induction Program was conducted for II B.Tech students on 12.07.2011 by Senior Faculty Members and the HOD.

### CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

- Mr. N.Suman from CSE presented a paper with title **"Network Security evaluation based on Information Security"** on 28<sup>th</sup> & 29<sup>th</sup> June 2011 at International Conference on Wisdom Base Computing, Thiruvananthapuram.
- Students of IV year IT and CSE attended an awareness programme conducted by HR of Accenture on 30<sup>th</sup> June 2011.
- 2010 B.Engg (Aircraft) students attended an awareness programme and visited **GHIAL & MAS GMR** on 28<sup>th</sup> and 29<sup>th</sup> June 2011.
- All the Final Year students are attended a presentation on **Way Forward-2012** presented by TPC on 27<sup>th</sup> June 2011
- **Mr.B. Hima Bindu & BSN Murthy** attended a seminar on **"Cutting Carbon Foot Prints"** and is **winners** in the program conducted by GVP, Visakhapatnam.
- **20<sup>th</sup> to 22<sup>nd</sup> August 2011:** 2 CSE M.Tech students presented two papers at the International Conference of Industrial Application on Soft Computing Technique at Bhubaneswar, Odisha.
- **11<sup>th</sup> & 12<sup>th</sup> August, 2011:** 3 IT students presented a paper at National conference SPARTANS conducted by MVGR college of Engineering
- **Mr.G.Ravi Teja** got **"silver medal"** in **"Swimming competition"** conducted by life saving swimming championship held at Kerala during 25<sup>th</sup> to 30<sup>th</sup> August 2011.

## NEW RECRUITMENTS

- **Dr. JVR Ravindra**, Professor, ECE.
- **Mr. Ch. Babji Prasad**, Asst. Prof., ECE.
- **Mr.Ch. Chakradhara Rao**, Asst. Prof., CSE.
- **Mr. G V Sivanarayana**, Asst. Prof., CSE.
- **Mrs. K .Rachitha Sony**, Asst. Prof., IT.
- **Mrs. K.Jayasri**, Assistant Professor, IT.
- **Mrs. A.Anupama**, Assistant Professor, IT.
- **Mr.S.Ravibabu**, Assistant Professor, MECH.
- **V.Srikanth Babu**, Assistant Professor, EEE.
- **Mr.A.Tirupathi Rao**, Asst. Professor, EEE.
- **Mr.P.Kiran Kumar**, Asst. Professor, EEE.
- **Mr.M.Vinay Kumar**, Asst. Professor, EEE.
- **Mr.S.Harikrishna Rao**, Asst. Prof., B S & H.
- **Mr.N.Venkata Prasad**, Asst. Prof., B S & H.
- **Mr.B.Praveen Kumar**, Asst. Prof., B S & H.
- **Mr.B.Srinivas**, Asst. Prof., B S & H.
- **Mr.K.Ravi babu**, Asst. Prof., B S & H.
- **Mr.V.Appala Naidu**, Asst. Prof., B S & H.
- **Mr.D.Govinda**, Asst. Prof., B S & H.
- **Mr.N.Santosh Kumar**, Asst. Prof., B S & H.
- **Mr. J.Suresh**, Assistant Professor, ECE.
- **Mr.S.Srinivas**, Assistant Professor, ECE.
- **Mr.C.Pavan Kumar**, Asst. Prof., ECE.
- **Mr.B.Hari Shankar**, Asst. Prof., Mech.

- **Ms.N.Vijaya Prasanthi**, Asst. Prof., Civil.
- **Ms.B.Krishna Prafulla**, Asst. Prof., Mech.
- **Mrs.N.V.Lalitha**, Asst. Prof., ECE.
- **Mr.A.Vara Prasad**, Asst. Prof., Civil.

## Training & Placement

- T & P achieved cumulative placements of 337 students as on August 2011.
- Team TPC facilitated the Language Assessment program for the faculty conducted by IICED on 21<sup>st</sup>-23<sup>rd</sup> June 2011.
- Presentation – Way Forward 2012 for all the Final Year B Tech students by Team TPC on 27<sup>th</sup> – 28<sup>th</sup> June 2011.
- Team TPC facilitated the Wipro Mission 10X Faculty Development Program from 19<sup>th</sup>-23<sup>rd</sup> July 2011. 32 faculty members participated.
- A seminar on “*The various career options for Engineers*” with a focus on CAT & GRE organized for the Third Year Students on 2<sup>nd</sup> July 2011
- The coaching classes for CAT-2012 and GRE commenced from 15<sup>th</sup> Jul 2011 and around 50 Students are attending the same.
- A seminar on ‘*Career Opportunities in the Indian Navy*’ by the Eastern Naval Command, Vizag for the Final Year B. Tech and 2<sup>nd</sup> year Intermediate Students on 16<sup>th</sup> July 2011
- A workshop on Employability Skills & Alumni Connect Session was conducted by TCS for Final Year Students on 18<sup>th</sup> July’11
- 56 hours Campus Recruitment Training was conducted for all the Final year B.Tech, MCA & M. Tech students.
- 14 hours of Personality Development & Communication Skills sessions were conducted by Team TPC for 3<sup>rd</sup> year B. Tech students.

## **FORTHCOMING EVENTS**

- National Level Student Technical Paper Contest and Exhibition STEPCONE-12 on first week of January, 2012