

# MARG-DARSHAN



A Quarterly from IIITD&M Kancheepuram

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## Research Internships

A one month research internship programme was organized by Computer Engineering discipline during June 2013. The programme was aimed at attracting bright UG and PG students from engineering institutes across the country. Over 600 applications were received from students of reputed institutes and around 50 applications were shortlisted and guided by Computer Engineering faculty. All the participants were exposed to basic concepts in the proposed areas of intern, in addition to projects in the specific topics. The research areas include Image Processing, Graph Theory, Computer Architecture, Data Mining, Open Flow Networks etc. The programme was a grand success considering the huge response it evoked in its first year of operation and the enthusiastic participation and involvement of the research interns. The internship programme was coordinated by Dr N Sadagopan, Assistant Professor, CSE.



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## Workshop on Research Challenges in RF & Wireless Communication

A two day workshop on research challenge in RF and Wireless Communications was coordinated by Dr M D Selvaraj and Dr S Karthikeyan from Electronics Engineering stream. The workshop attracted participants from all over the country, totaling around 75. The workshop was inaugurated by Prof. Amitava Das Gupta, Professor, Department of Electrical Engineering, IIT Madras. Guest and invited lectures were delivered by experts from IIT Madras, NIT Trichy, Tata Elxsi and the host institute. The workshop was sponsored by CSIR and jointly organized by IIITD&M Kancheepuram and M/s. Rohde & Schwartz India. Participants were exposed to the recent issues and research trends in RF and Wireless Communication and the workshop talks were received well by participants from both academia and industry.



## 2 One Week STTP on Robotics

A one week Short Term Training Programme (STTP) on Practical Approaches in Robotics and Smart Material Technologies was organized by IIITD&M Kancheepuram inside the campus during 24-28 June 2013. Twenty three participants, both faculties and research scholars, from various Institutes throughout India participated. Experts from IIT Madras, IIITD&M Kancheepuram, IGCAR Kalpakkam, SERC-CSIR Chennai and also industrial experts from National Instruments, Bangalore and GSM Software, Bangalore have delivered lectures in specialized areas such as Underwater Robotics, Smart Materials-Modeling and Applications, Structural Applications of Smart Materials, Sensor Integration and Data Acquisition using LabVIEW, Robots in Nuclear Applications and Robot Control. Prof R Gnanamoorthy, Director, inaugurated the programme. Dr M Sreekumar was the programme coordinator.



Resources	Numbers
Total No of Books as on 11 <sup>th</sup> June	2908
Total No of books has been purchased last one year (01 <sup>st</sup> April 2012 to 30 <sup>th</sup> March 2013)	749
Journals/Magazines (print version)	27
News Papers	05
CD-ROM/DVDs	182
Theses and Dissertation	56
E-Journals - Subscribed through INDEST consortium (Elsevier science direct 175 + IEEE Xplore 415)	590
Gratis	21

## Product Development @ IIITDM

In line with the vision of the institute to excel in innovative product design and development, students of the computer, electronics and mechanical engineering discipline involve in an interdisciplinary product development activity as part of the B.Tech and M.Des curricula. Over the years, this course has resulted in several interesting and novel ideas and products and, highlights of the same by the students during the relevant period are listed below.



### ***Piezo Disc Mounted Shoe Charger***

Samaresh Chandra Nayak (EDS12M006), Ashish Kumar (MDS12M002), Srinivasan G (MDS12M008) and Vimal K M (MDS12M013)



### ***Smart Book Holder for Differently Abled***

Nirupam Paul (EDS12M003), Shashank Ukadley (MDS12M007) Sikharam Uday Kiran (EDS12M008)



### **Bulge Walk -To cure flat-foot related problems:**

Narendran. G (MDS12M003), Venkataraman Sahoo (MDS12M012) and Naresh. V (EDS12M002)



## Hostel Inauguration & Tree Plantation Drive

Permanent infrastructure creation in the institute is under full swing and the administrative and academic zones are nearing completion. For the period relevant to the news letter, Jasmine Hostel was inaugurated and the event was accompanied by a tree plantation drive. The event saw active participation from the students, staff and faculty members. A similar event was also conducted during the visit of the members of the Board of Governors of the institute during May 2013. Activity in the above right is the plantation by Dr G Viswanathan, Chancellor VIT and member of the BoG of the institute during the visit.

## Research / Academic Activities

- ✦ Dr Sreekumar M- Key Note Speech on "Smart Materials for Smart Applications", on 12 April 2013 IEEE Intern Conf on Energy Efficient Technologies for Sustainability (ICCEETS'13) organized by ST Xavier Catholic College of Engineering, Nagercoil, 10-12 April 2013.
- ✦ Key Note Speech on "Innovative Applications of Smart Materials in Mechanical and Mechatronic Systems, during the National Conf on Innovations in Mechanical, Mechatronic and Building Sciences (NCIMMBS 2013) organized by Kongu Engg College, Erode, 25-26 April 2013 by Dr M Sreekumar.
- ✦ Abdul Majeed K and Binsu J Kailath, "Low power, High Frequency, Free Dead Zone PFD for a PLL Design, IEEE International Conference on Faible Tension Faible Consommation 2013, (12th IEEE FTFC) held in Paris from 19-20 June 2013
- ✦ Swaminathan R, Rajarshi Roy and M.D. Selvaraj, "Performance Analysis of Triple Correlated Selection Combining for Cooperative Diversity Systems" at IEEE International Conference on Communication (ICC 2013), 9-13 June 2013, Budapest, Hungary.

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