

October 2015



# NEWS LETTER

Dr. Ambedkar Institute of Technology, Bangalore-56

An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgaum



## Our Mission:

*To Distinctively Serve the Diverse People of India especially the Historically Under Privileged Population*

*To Provide Affordable High Quality Technical Education at Under Graduate Post Graduate and Doctoral levels*

*To Emerge as a Lead Institution to cooperate in the development of networked Institutions, and Promote Industry Institute Interaction in a way beneficial and Productive for the Society.*



## The 69<sup>th</sup> Independence Day Celebrations at Dr. AIT



The independence day was celebrated with a very huge gathering of the students and faculty. The chairman hoisted the national flag and the national anthem followed. The shower of tricoloured petals from atop caught everyone in cheerful mood. The girls with their face painted with national flag, added more colour to the cherishable moment. The honourable chairman Sri S Chinnaswamy and the honourable secretary Dr. M Mahadeva addressed the audience. Also present were Vice Chancellor Dr. B Hanumaiah and Principal Dr. T C Manjunath. The flag hoisting was followed with breakfast and a very colourful entertainment by the students. The students put up a splendid show, which was very befitting to the occasion, rousing patriotism and also a grave reminder of the present day abuses of the society. Each of the performing team was encouraged by presenting a cash award by the college management.

## About the Institution

Dr. Ambedkar Institute of Technology (Dr. AIT) is managed by Panchajanya Vidya Peetha Welfare Trust. Dr. AIT was established in 1980 by Late Sri. M H Jayaprakash Narayan. An Autonomous Institution aided by the Government of Karnataka.

**Vision:** "To create Dynamic, Resourceful, Able and Innovative Technical Manpower to ensure that India regain her responsible and creative leadership in Technology"

Inside this

College Activities

Department Activities

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGG.

### Publications

1. Ramling Halmandge, Jeevan J, Pushpalatha S, Satish B Basapur , **Design and Implementation of Efficient Authentication Agent to Reduce Number of Hops in VANETs**, in *IJSRD - International Journal for Scientific Research & Development* | Vol. 3, Issue 05, July 2015 | ISSN (online): 2321-0613.
2. Jeevan. J, Pushpalatha. S, Vidya Rani H J, Ramaling Halmandge, **Retrieving Safe Information for Decentralized Fault Tolerant Military Network**, in *IJSRD - International Journal for Scientific Research & Development* | Vol. 3, Issue 05, July 2015 | ISSN (online): 2321-0613.
3. Bindushree. M.R and Vijayalaxmi.R.Patil **An Efficient Conflict Free Multi-Path Dynamic Routing For Improving QoS in Wireless Sensor Networks** *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)* ,Vol. 4, Issue 8, August 2015 ,ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710 , DOI:10.15680/IJIRSET.2015.0408094.
4. Saritha K R , Pushpalatha S, VidyaRani HJ **Cloud Computing Service models and Solution to their security Concerns** in the *International Journal of Latest Technology in Engineering, Management & Applied Science –IJLTEMAS* ISSN 2278 - 2540 during July 2015.
5. Sunil Kumar.B.K, Dr.Shylaja B S, **An Optimized Method for Securing Data Stored in Cloud using Decentralized Access Control Mechanism**, in *IJSRD - International Journal for Scientific Research & Development* | Vol. 3, Issue 05, July 2015 | ISSN (online): 2321-0613.
6. Nandini Prasad K S, Pavan , **Comparative Study on Security Protocols for VANET's**, *International Journal of Science, Engineering and Technology Research (IJSETR)* , ISSN: 2278–7798, Volume 4, Issue 9, September 2015, pp.3004-3006

Akarsh, 5th Sem. won a prize at the **National level Go-Kart Design Challenge** organized by ISNEE



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## DEPARTMENT OF INSTRUMENTATION TECHNOLOGY

**Expert Talk : ANN and its Applications** delivered by Dr. M Meenakshi on 11<sup>th</sup> August 2015 at 3 days workshop on Soft computing and its applications in engineering , MSRIT, Bangalore

### Workshop Attended

- \* Soumya B S and Monikashree T S attended **One week FDP on A Practical Approach towards Embedded System Design** during 27-07-2015 to 01-08-2015 at MSRIT, Bangalore
- \* Dr. M Meenakshi and Shubha P attended **Hands –on-Training on FEKO** 7<sup>th</sup> to 11<sup>th</sup> April 2015, Dr.AIT

### **CCSO 2015** *3rd National Conference on Computational Control Systems and Optimisations*

Dr. M. M. Naik former Director ISRO, professor, IISC, Bangalore inaugurated the conference .

Eminent speakers from academic institutions, industries and R&D organizations delivered lectures.

There were three invited talks and a the key note address on the specialized areas of the conference. Around seventy five peer reviewed papers were presented in eight parallel sessions over the two

days. This provided ample scope for interaction among the participants. Student project/poster presentations were also arranged.

The programme was convened by Dr. M Meenakshi Professor and head of the department. The conference was successfully organised with the cooperation and support of all the faculty and staff in the department.



INAUGURATION OF CONFERENCE

October 2015

RELEASING OF PROCEEDINGS



Reported by: Dr. M Meenakshi

## DEPARTMENT OF MBA

### Events

Industry visit to KSIC and KSDL Mysore on August 21<sup>st</sup> and 22<sup>nd</sup>

Prof. Susheela Devi. D. delivered A Talk Titled **FOCUS ON HRM** on 29/9/15 addressing final year BBM and B Com. students at PVP First Grade College, Mallathally, Bangalore

III semester students attended a workshop on **SKILL DEVELOPMENT, RURAL ENTREPRENEURSHIP AND TECHNOLOGY** during 3/9/15 and 4/9/15 at VTU Regional office, Bangalore

Dr. Rupla Naik.S, attended a workshop on **CHOICE BASED CREDIT SYSTEM** on 11/9/15 organized by VTU at K.S.School of Engineering and Management, Bangalore.

**Teacher's Day** was celebrated on 7th September 2015.

**Fresher's party** was organized by the III sem. students and department of MBA on 7/10/15

Reported by: Arundhathi

## DEPARTMENT OF MATHEMATICS

### Publications

- ◇ B. Sooryanarayana et. al., **Open Neighborhood Chromatic Number of an Antiprism Graph**, *Applied Mathematics E- Notes* Aug 2015, pp 54-62, ISSN 1607-2510
- ◇ Dr. R. Murali et.al., **Rainbow Connection Number of Sunlet Graph and its Line, Middle and Total Graph**, *International Journal of Mathematics and its Applications* Vol 3, Issue 4-A Aug 2015, pp 105-113, ISSN 2347-1557
- ◇ Jayalakshmi M, Padma MM, B. Sooryanarayana, **Outer Sum Coloring of a Graph**, *Universal Journal of Mathematics and Mathematical Science*, Vol 7, No. 1, 2015, PP 33-49, ISSN:2277-1417

### *Talks Delivered*

Dr. B. Sooryanarayana delivered talks on

1. **Security sets in a Network** at National Conference on *Graph Theory and its Applications* during 7<sup>th</sup> and 8<sup>th</sup> Aug 2015 at Amrita School of Engineering, Bengaluru.
2. **Dimension in Graphs**, at National Workshop on Graph Theory and Applications on 17<sup>th</sup> Oct 2015 at Siddaganga Institute of Technology, Tumkur

### WORKSHOP ATTENDED

- ◆ Dr. R. Murali: **Hands on Training on Qualnet**, at Dr. AIT, during 22<sup>nd</sup> & 23<sup>rd</sup> Sept. 2015
- ◆ Dr. Jayalakshmi M, Dr. Shivaprasanna G S, Ms. Prabhavathi G Angadi, Ms, Ashwini R : National level workshop on **A Pedagogy for Effective use of Mathematics for Research in Science and Technology** during 27 to 31 July 2015 at Jawaharlal Nehru National college of Engg., Shimoga,

*Reported by : Dr. Jayalakshmi M*



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## DEPARTMENT OF CHEMISTRY

### *WORKSHOP ATTENDED*

1. Dr. B. Veena Devi:

- **QUALNET** during 22<sup>nd</sup> & 23<sup>rd</sup> September, 2015 at Dr. AIT, Bangalore – 56.
- **Skill Development, Rural Entrepreneurship and Technology** during 3<sup>rd</sup> & 4<sup>th</sup> September, 2015 at VTU regional office, Bangalore.
- **Principles of Photonics and Applications** during 20-24 July 2015, MSRIT, Bangalore
- **Industry Readiness in Engineering Education IREE-2015** during 23-25 April 2015 DR. AIT, Bangalore -56

2. A. A. Jahagirdar,

- **Principles of Photonics and Applications** during 20-24 July held at MSRIT,

### CONFERENCE

Shruthi. B, **Electrochemical behaviour of modified  $\beta$ -nickel hydroxide electrode material for applications in alkaline secondary batteries** National Symposium on Electrochemical Science and Technology, NSEST-2015 during 24-25 July 2015 at IISC, Bangalore

*Reported by : SHRUTHI B*

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Publications

- ♦ Dr. B V Sumangala, **A Single Phase Inverter With D-Statcom Capability For Small Wind Turbines Advanced Research In Electrical And Electronic Engineering**, *Krishi sanskriti Publications* ISSN:2349-5804, Vol2. No. 6, pp65-68 April-June 2015
- ♦ Dr. B V Sumangala, **Modular Multilevel Inverter Using Phase Disposition Pulse Width Modulation Technique**, *Advanced Research in electrical and Electronic Engineering, Krishi Sanskriti Publications* ISSN:2349-5804, Vol2. No. 7, pp.69-73, April-June 2015
- ♦ Eranna ,**Reactive Power Compensation Using STATCOM** *International Conference on Emerging Trends In Engg. And Technology (IFERP) 7<sup>th</sup> June 2015 Bangalore*
- ♦ Dr. Jyoti P Koujalagi, **Multilevel Cascaded Inverters Under Unbalanced DC Source , National Conference On Power, Control And Signal Processing (NCONPCS-2015), 8<sup>th</sup> April 2015 , GCE, Ramanagaram**
- ♦ Dr. Jyoti P Koujalagi , **A Fuzzy Logic Based Control System Used To Improve Energy Production From Alternatice Sources**, *National Conference On Power, Control And Signal Processing-2015 (NCONPCS-2015), GCE, Ramanagaram, 8<sup>th</sup> April 2015*
- ♦ Dr. Jyoti P Koujalagi , **Torque Ripple Minimization In 8/6 SRM By Variation Of Conduction Angle And XSG For Controller Design**, *2<sup>nd</sup> International Conference on recent trends in signal processing, Image processing and VLSI, DBIT, Bangalore 15.16 May 2015*
- ♦ Dr. Jyoti P Koujalagi , **Fuzzy Logic based control system used to Improve energy production from Alternative sources**, *International Journal on, Advanced Research in Electrical Engineering, AREEE* ISSN:2349-5812online, vol2 no.5, pp.68-73, *Krishi Sanskriti publications, April-June 2015*
- ♦ T B Dayananda , **A 250 W Full Bridge DC-DC Step-up Converter**, *Advanced Research in Electrical Engineering, AREEE Print* ISSN:2349-5804,online, vol2 no,5April-June 2015, pp.12-17*Krishi Sanskriti publications, April-June 2015*
- ♦ T B Dayananda , **Improvement in Power Quality using DC-DC Converters**, *IFERP, International Conference on emerging trends in Engg. And Technology, IFERP, International Conference on emerging trends in Engg. And Technology*
- ♦ H V Govindaraju, **High Efficiency, isolated, Resonant converter for Photovoltaic Applications**, *International Conference on, " Innovative Research in Mechanical, Electrical, Electronics, Civil, Computer Science and Information Technology, 16-17<sup>th</sup> May 2015, JNU, New Delhi*
- ♦ H V Govindaraju, **High Efficiency, isolated, Resonant converter for Photovoltaic Applications**, *Krishi sanskriti Publications* ISSN:2349-5804, Vol2. No. 7, April-June 2015, pp 26-29
- ♦ Nalini S , **Reduction of Commutation Torque Ripple in sensorless DC Motor using Fuzzy logic controller**, *International Journal of advanced Research in Electrical, Electronics and Instrumentation Engineering, (IJAREEIE),Vol 4,Issue 6, ISSN:2320-3765,pages5655—5661, June 2015*
- ♦ Nalini S , **Commutation Torque Ripple Reduction using Fuzzy Logic Controller in sensor less Brushless DC Motor**, *International Journal of Engineering Sciences and Research Technology (IJESRT),ISSN:2277-9655(I2OR)Vol.4, Issue 7, ,pages:664-669, July 2015*
- ♦ Arpitha Raju , **Cascaded Two Level Inverter Based Multilevel Statcom For Power Quality Improvement**, *International Conference On, Innovative Research in Mechanical, Electrical, Electronics, Civil, Computer Science and Information Technology, 16-17<sup>th</sup> May 2015, JNU, New Delhi*
- ♦ Arpitha Raju , **Automatic Power Factor Correction Using FPGA**, *International Conference on, Innovative Research in Mechanical, Electrical, Electronics, Civil, Computer Science and Information Technology, 16-17<sup>th</sup> May 2015, JNU, New Delhi*
- ♦ Deepthi S S , **Electrical Power Generation By Speed Breakers**, *National Conference on, Wireless Control and Communication Technologies, 27-28<sup>th</sup> April 2015, Dr.AIT, Bangalore*



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## Workshop Attended

- ♦ Arpitha Raju **Research Methodologies** 21-23 May 2015 VTU, Bangalore
- ♦ Nalini S, Arpitha Raju **Hands on Training in FEKO** 7-11 April 2015 Dr. AIT
- ♦ Dhanyavathi A, Harini V, Soumya S, Deepthi S S, Pankaja **Industry Readiness in Engg. Education (IREE-2015)** 23-25<sup>th</sup> April 2015 Dr. AIT
- ♦ Dhanyavathi A **Research Methodologies** 8-9<sup>th</sup> June 2015 NIE, Mysore

Reported by: Nalini S

## DEPARTMENT OF MEDICAL ELECTRONICS

### Internship

- ⇒ Around ten final year students underwent two month long internship at Major Hospitals in city and in Mysore
- ⇒ One student underwent internship at NIMHANS Bangalore



The final year students of 2015 Batch Chethan and Javeed explaining their project to the consultancy ASRAH TECHNOLOGIES PVT. LTD

## PUBLICATIONS

Kamala C : A 11 GHZ Narrow Band Pass Filter Design with Lumped Elements, EM Sights and AXEIM Technique: *International journal of Emerging Technology and Advanced Engineering* ISSN 2250-2459 Volume 5 Aug.2015

Ravish D K Wavelet Analysis of EEG & for Seizure Detection: Coherence and Phase Synchronous Estimation *Biomedical Research India* Vol. 26, Iss. 3 pp 514-524 May 2015

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## Department of Telecommunication Engineering

### Workshop Conducted

Workshop on **Hands on Training on QualNet** on 22nd & 23rd of September, 2015 An Industry Institute Interaction Program was conducted in association with **Nihon Communication Solutions Pvt Ltd (NCS)**.

### **Publication Details**

- ⇒ Praveen K.B **11GHZ Narrow Band Pass Filter Design with Lumped elements EM Sigt snd Axiem Techniques** in *International Journal of Emerging Technology and Advanced Engineering* Volume 5, Issue 8, August 2015
- ⇒ Kavitha Narayan B.M **RTL Design And Verification of SPI Master Slave using UVM** in *International Journal of Advanced Research in Electronics and Communication Engineering*, Volume 4. Issue 8., August-2015, pp.2159-2162.

### **Congratulations**

Subramanya A Iyer, Spoorthi Ramdas Nayak and Raksha M.V  
VII Sem. Students Won First place in All India contest EnginX-2015  
Organised by Tata Consultancy Services



*Reported by* : **KAVITHA NARAYAN**



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## *DEPARTMENT OF MCA*

Prof. S.K. Indumathi presented a paper on **A Visionary Approach for Technological Advancements through Education in Rural India** in the International Conference held at Mount Carmel College, Bangalore on Aug 30<sup>th</sup> and 31<sup>st</sup> 2015

### Workshop Organized

**Android Based Mobile Applications** on 21 August 2015 conducted by Mr. Arun S.Chandodi , Android Developer, at MSSCRIPT

MCA students have participated in the two day workshop on **Skill Development, Rural Entrepreneurship and Technology** organized by Skill Development Centre, Visvesvaraya Technological University on 3<sup>rd</sup> and 4<sup>th</sup> September 2015 at VTU Regional Office Bengaluru.



Reported by : Dharani NV



October 2015

# SPORTS



WINNERS AT VTU INTERCOLLEGE  
KABADDI TOURNAMENT 2014-15



Inauguration of VTU Intercollege  
Throw Ball Tournament at our col-  
lege campus on 8th & 9th October  
2015

*Reported by :*  
**Shivakumar K J**



Teams contesting at the Throw Ball Tournament



**October 2015**

Independence Day Flag Hoisting



Chief Editor : Principal Dr. T C Manjunath  
Complied and Edited by : Dr. Shanthi K J  
Prof. & HOD. Dept. of Medical Electronics