

January 2016



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.



Message from Principal's Desk

I warmly extend the New Year Greetings to each one of you. The year ahead 2016 is full of promises and hopes for Dr. AIT.

New challenges lay ahead with the institute readying itself for National Accreditation. With international recognition.

The management has its vision to realise Dr. AIT on par with the national reputed universities. This combined with the efforts of each individual member of Dr. AIT fraternity will surely see Dr. AIT in the front runners of higher education.

The placement activities are at the helm. With more companies joining in we hope to achieve highest percentage of placement this year.

Dr. C Nanjundaswamy
Principal

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

January 2016

DEPARTMENT OF
TELECOMMUNICATION AND ENGG.

Publications

1. Vidya Honguntikar **Performance Analysis Of GTS Allocation In IEEE 802.15.4 With CSMA/CA For Wireless Sensor Networks** in International Conference on Computers , Communications and systems (ICCCS-2015) on 2nd & 3rd of November 2015.
2. **Shruthi P.C Wavelength Converter in Optical WDM Networks Using Evolutionary Algorithm** IEEE proceedings on 12th International Conference on wireless and optical communications at MSRIT, Bangalore on 9th to 12th September 2015

M Tech. Internship : Students underwent internship at industries like BEL, CAIR, Reliance Communications Ltd. And BSNL

Reported by : Priya H K

DEPARTMENT OF
ELECTRICAL ENGINEERING

Publications

1. Dr. Shankarlingappa **Stability Enhancement of DFIG- based Wind farm connected to a grid using STATCOM**, *IEEE INDICON-International Conference* Dec. 17-20,2015 New Delhi
2. Dr. Shankarlingappa **Optimal allocation of distributed generators for minimizing energy losses and maximizing the economic benefits considering cost of energy** *IEEE-ITACT 2015, International Conference, 21-22 Dec.2015* Bangalore
3. **Wireless Power monitoring and controlling** *ICRECT-International conference 17-19th Dec.2015 PESCE* Mandya

Reported by : Halini S

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Publications

1. Prof. Smitha Shekar B & Prof. Harish G **Trends in Automation Communication and Computing Technologies** in *International Conference, ITACT-2015 on 21st, 22nd December 2015* at Acharya Institute of Technology, Bangalore.
2. Prof. Leena Giri G **In-Page semantic Ranking of Snippets for Web pages** 6th *International conference on Advances in Computing, Control and Telecommunication Technologies- ACT 2015* October 2015.

Workshop Attended

Sasirekha A of 7th semester participated in Apps Fluxus-20 National Android App Champions workshop on 2nd to 3rd November 2015

Reported by : Rashmi

DEPARTMENT OF MATHEMATICS

- ◇ Dr. R. Murali et.al., *Embedding Index in Graphs*, Journal of Advanced Mathematics and Applications , Volume 4, No. 2, Dec 2015, PP 1-7, ISSN: 2156-7565
- ◇ Dr. B. Sooryanarayana Attended and delivered an invitee talk on *Dimension in Graphs*, in one day national workshop on Graph theory and applications held on 17th Oct 2015 at Siddaganga Institute of Technology, Tumkur.

Other Activities

- ◇ Research Scholar Mr. Kamal kumar completed his final Viva- Voce on 22nd Dec 2015 under the guidance of Dr. R. Murali

Reported by : Jayalakshmi M

DEPARTMENT OF INFORMATION SCIENCE ENGINEERING

Publications

1. Vinutha M, Nagalakshmi S, **Estimation of Performance of MANET Routing Protocol in a Maritime Environment**, IJLTEMAS Volume IV, Issue X, October 2015 ISSN 2278 – 2540 pp 65-67.
2. Soumya N S, Prabha R, **Cloud Computing: Data Security Using RSA**, IJLTEMAS, Volume IV, Issue X, October 2015 ISSN 2278 – 2540 pp 57-59.
3. **Roopini K S , Dr. B S Shylaja Survey on Environmental Energy Harvesting Techniques used for optimizing Energy in WSN** , International Journal of Latest Technology in Engineering, Management & Applied Science [IJLTEMAS], Volume IV, Issue XI, November 2015, ISSN-2278-2540 pp.44-46.
4. Nandini Prasad K S, Priyanka S P, **Performance of Tracking Public Transport in Heterogeneous Networks** IEEE International Conference on Research in Computational Intelligence and Communication Network (ICRCICN), RCC Kolkata, 20th -22nd November 2015, pp. 357-362.
5. Nandini Prasad K S, Pratheek T R, **Providing Anonymity Using Top Down Specialization On Big Data Using Hadoop Framework** IEEE INDICON Conference, Jamia Millia Islamia, New Delhi, 17th-20th Dec. 2015.

Workshop

Application Development using Android on 17th & 19th, October, 2015



Industrial Visit to : TEJAS Networks
on 07/12/15

Reported by: Dr. Nandini Prasad

January 2016

DEPARTMENT OF CHEMISTRY

Publications

1. Dr. B. Veena **An Electrochemical Study of The Inhibiting Action of Cationic Surfactant Inhibitors on The Corrosion Behaviour of ZA-27 Alloy In 0.5M NaCl** National Conference on Recent Advances in Applied Chemistry Organized by Dayananda Sagar University, Bangalore on 17th December 2015.
2. Mamatha. K. M **Study of Thickness Distribution in Selective Gold Plating** 8th National women's science in congress Swadesi Vijnana Andolana Karnataka, Bangalore on 7th and 8th November 2015.
3. Shruthi. B **Synthesis of Nanoscale MgO Particles and Their Effect On The Electrochemical Behavior of Nickel Hydroxide Electrode** National Conference on Advanced functional materials (AFM-2015) Dayananda Sagar College of Engineering, Bangalore on 4th and 5th December 2015

Reported by : SHRUTHI B

LIBRARY

1. C.A .Malaghan Attended Two days National Seminar on **Library Consortia in Digital Age : Opportunities and Challenges** on 1st and 2nd December 2015 at Visvesvaraya Technological University, Jnana Sangama, Belagavi
2. C.A .Malaghan Attended in the National Conference on **Electronic Resource Management and Research Support Services in Academic Libraries** on 11th and 12th December 2015, at Dayanand Sagar College of Engineering Bangalore.
3. C.A .Malaghan Participated as a Rapporteur General in the National Conference on **Electronic Resource Management and Research Support Services in Academic Libraries** on 11th and 12th December 2015, at Dayanand Sagar College of Engineering Bangalore.

DEPARTMENT OF INSTRUMENTATION TECHNOLOGY

Publications

Ganapathi V Sagar Convolution Based Face Recognition using DWT & Feature Vector Compression 3rd IEEE International conference on ICIIP '2015 21st -24th Dec 2015 Bangalore

Ganapathi V Sagar A Feature Vector Compression Approach for Face Recognition using Convolution and DWT International Journal on IJCT vol 15, No.1, ISSN 2277-3061,PP6453-6470

Industrial Visit

Kerala State Electronics Development Corporation LTD, Keltron Controls, Kerala
on
17th October 2015

Around 30 students from 3rd and 5th semester accompanied by 2 faculty members visited the industry. The main objective of the visit was to expose the students to industrial adaptation of concepts of Controls and Instrumentation, Power Electronic System and Security & Surveillance Systems. The

company is located in Alappuzha (District) of Kerala. And Mr. Mohan Kumar guided and explained about various electronics gadgets like actuators, sensors etc. used in the industry.



Students at
KELTRON
Kerala

Reported by : SHUBHA P

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DEPARTMENT OF MEDICAL ELECTRONICS

Android APP Development Workshop :

2/11/15 & 3/11/15

The workshop cum contest was organised by ME-SA (Medical Electronics students Association). The

workshop was organised by APPSfluxus Delhi, The company is recognised by IIT Roorkee and the three winners will represent the Tech Fest at IIT Roorkee to be held during Mar. 2016. The workshop was organised by Student volunteers Praful

Electrical Safety for Medical Devices :

Rizwan Khan and Hidayath TransCall India Pvt. Ltd.

The one day Talk was an Industry component in the curriculum and handled by a Medical Devices Calibration company called **TransCall India Pvt. Ltd.** Two of our Alumni entrepreneurs own this company. They did a fabulous job of inspiring the

Biomedical Engineers in Aviation and Space Medicine : Challenges and opportunities : 4/11/2015

Dr. Aravind, Head of BioMedical Engineering, Institute for Indian Aerospace Medicine, Indian Air force , Bangalore

Dr. Aravind, spoke on the various human centric design issues and intricacies involved in biomedical engineering in such hostile and demanding conditions. The field offers lot of opportunities for biomedical engineers.

Industrial Visit

The final year students and three faculty members visited AIISH All India Institute for Speech and Hearing Mysore

The VI Sem. Students underwent hospital training during 4-01-16 to 9-01-16 at BGS Medical College and Hospitals and Dr. B R Ambedkar Medical College and Hospitals K G Halli

PUBLICATION

Dr. Shanthi KJ , AP Manjunatha, Ravish DK : **Neural Network Based Drowsiness Detection System Using Physiological Parameters** : *IEEE International Conference WIECON ECE-16 Dhaka Bangla Desh Dec. 14 2015*

Workshop attended

- ◇ Narasimha Murthy and Chandrasekhar A N attended a workshop on Advanced Experiment Techniques on Data Acquisition in Pharmacological Research at JSS College of Pharmacy Ooty on 05/10/2015
- ◇ Ranganath K B attended the workshop

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Android APP Development



Snap Shots from Electrical Safety-The Alumni interacting with students



January 2016



Mr. Enrico Altino from Italy and Mr. Harish of AD Instruments with Dr. TC Manjunath and the ML team. Mr. Altino visited the department on 30th Nov. to enlighten us on a therapeutic equipment for research in the cardiac study with patient maneuvering. The students would get an opportunity to visit and learn about the equipment in one of the hospitals where the equipment is installed.



Mr. Ranganath K B attending Operation and Maintenance of ICU Equipment during 14/12/15 to 18/12/15 at Advanced Training Institute and Electronic Process Instrumentation ATI EPI Hyderabad



Dr. Arvind
Head of Bio Medical Engineering,
Institute for Indian Aerospace Medicine,



Final Year students on a Industrial Visit to All India Institute of Speech and Hearing On 06/11/2015

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Medical Electronics Students on Hospital Visit to Dr. B R Ambedkar Medical College and Hospitals Bangalore -45

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