

# Dr. Ambedkar Institute of Technology

(An Autonomous Institution Aided by Govt. of Karnataka)  
Affiliated to Visvesvaraya Technological University Belgaum  
Mallathalli Bangalore 56



## NEWS LETTER

Jan-March. 2018



### Our Vision

To create Dynamic, Resourceful, Adept and Innovative Technical professionals to meet global challenges



### *From the Principal's Desk*

Greetings to all the student friends, parents and other stake holders.

The college standing by the spirit of its Vision had hosted a very big technical event to showcase the innovations of the young budding engineers to mark the birth anniversary of Bharath Rathna Dr. B R Ambedkar, on April 14th.

We continue to support the cause of contributing to the society and to the nation by providing a holistic growth to the students by imparting quality education and shaping their character as well through Induction Training programme.

The National Project Implementation unit NPIU—MHRD Govt. of India has twinned the Institute of Engineering and Technology under Dr. Ram Manohar Lohia Avadh University, Faizabad, U P , with Dr.AIT for its development through mentoring.

Wishing you all a very peaceful and glorious days ahead!!

Best Regards

Dr. C Nanjundaswamy

## Science & Technology Club

Invited talk on 'Protection and conservation of Environment' by T. V. N. Murthy, Environmentalist, on 28th February on the occasion of National Science Day.



The event was coordinated by Dr. B Veena Devi Prof. & Head Dept. of Chemistry

Women's Day: Mar 8th.



The college is a hub of women folk at all levels. And the privileged group is given a week to have fun and frolic. Various women centric activities are organized by the enthusiastic lot. The International women's day was celebrated with a women achiever and this time it was the popular playback singer Shamitha Malnad, who in her very simple and confident manner won all the hearts. She inspired everyone to dream and to chase the dream. The dignitaries on the occasion were honourable Secretary Shri AR Krishnamurthy. The Women's Day was coordinated by Dr. Rajeshwari, IEM department

## Our Mission

- \* To offer state of the art undergraduate, postgraduate and doctoral programs in the fields of Engineering, Technology and Management.
- \* To generate new knowledge by engaging faculty and students in research, development and innovation.
- \* To provide strong theoretical foundation to the students, supported by extensive practical training to meet the industry requirements.
- \* To instill moral and ethical values with social and professional commitment.



# Induction Programme

Induction training was imparted to the first year students. The training was organised by the faculty who had undergone rigorous professional training on induction programmes held by the NPIU. The speakers were chosen from different walks of life who inspired the young minds on simple living, human values and ethics. The speakers were Sri. Santosh Kumar KAS, Joint Registrar of cooperative societies, Sri R Krishna, CEO of Ramanuja Management Services, Prof. Laxminarayana Bhat, retired Principal, V.V. Pura college. Sri. M.S.Vadiraja, Sri. Dhana Kumar, Director IIPM (Indian Institute of Plantation Management, an organization of the Ministry of Commerce & Industry, GOI),

Dr. Sudha Shankar, from Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, DISHA foundation, Malleshwaram, Bangalore, engaged the student through activities. Banthe Bodhidatta Thera, a Buddhist monk from Nalanda University, enlightened about Bhagawan Buddha's life. Students were introduced to practice meditation. Madhyastha Darshan philosophy that covered Human values and ethics from the point of view of Sri A. Nagaraj, a pioneer on Chetana Vikas. This was conducted by Sri. Rakesh Gupta, an engineer by education and a practitioner of this philosophy.





Glimpse of the various student activities during the induction training.





## Department of MCA

### Publications

L Manjunath Rao **A Container based Collaborative Research Cloud Framework with a Hybrid Access Control Approach for Enhanced Isolation** *IEEE Proceedings* , Doi:10.1109/ICECCOT.2017.8284605,IEEE 7

L Manjunath Rao **CCCORE Cloud Container for Collaborative Research**, *International Journal of Electrical and computer Engineering (IJECE)* Vol. 8, No.3,June 2018, pp.1659-70.ISSN:2088-8708,Doi :10.11591/ijece v8i3. Pp. 1659-1670.

L Manjunath Rao **An Approach to Improve Isolation and Security in Container Based Cloud System**, *International Journal of Advanced Research in Computer Science* Vol. 9, No.2, March-April 2018,(ISSN No.0976-5697)



IV Sem. Students visited IBM—Bangalore on 15th March

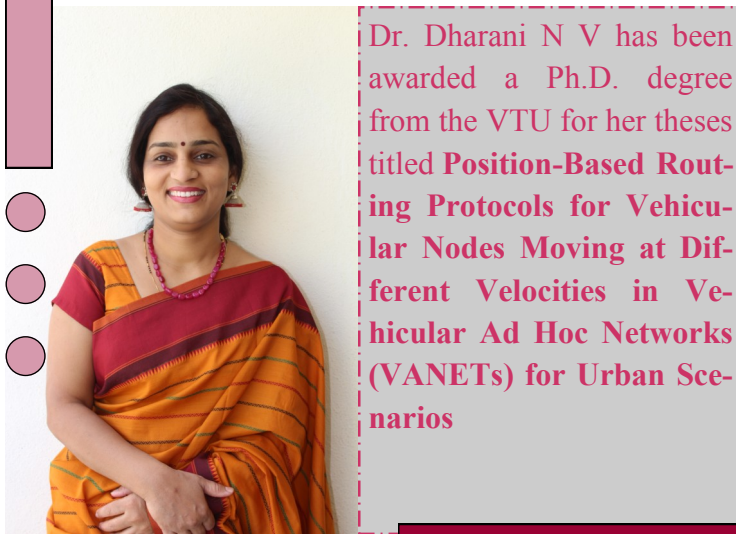
Mr. Varun an Alumnus, Quinnox Consultancy Service and Mr. Suresh, Relyon Soft tech Limited a Seminar on **Industry expectations and challenges** on 17th March 2018



## Workshop Attended

Dr .Dharani N.V, Ms. Shivaleela : workshop on **Software Testing Automation Tool** at Acharya Institute of Technology , Bangalore during 08/02/ 2018 to 10/02/2018.

## PhD Awarded





## Department Of Chemistry

### Publications

Dr. A. A. Jahagirdar **Synergistic Mechanism Of Znfe<sub>2</sub>o<sub>4</sub> / Zno Nano Powder In Photocatalytic Degradation Of Acid Orange 7** *Asian Journal of Chemistry*, Vol.30 (3) 31 January 2018 , pp 607- 612.

Dr. B.Veena Devi **Removal of Heavy Metals from Waste Water using Agricultural Waste as Adsorbents** National Conference on *Industrial Innovative Management Practices (IIMP-2018)* 15<sup>th</sup> and 16<sup>th</sup> March 2018.

One day Workshop on ‘Recent Advances in Micro & Nano Engineering Materials and Applications (RAEMA-2018)’ on 31<sup>st</sup> January 2018.



REPORTED BY: Shruthi B

# Department of Civil Engineering

## Workshop Organised

1. Finishing school on, **Technical Challenges for Civil Engineering Graduates** - 9th and 10th February 2018 under TEQIP-III
2. Finishing School on **Recent Developments in Highway Engineering** - 14<sup>th</sup> March 2018 under TEQIP-III



## Industry Visits

RTPS, Raichur, Supa Dam and Dandeli from 1<sup>st</sup> to 3<sup>rd</sup> March, 2018.



Visit to Thoraikadanahalli Water Treatment Plant on 12<sup>th</sup> March, 2018.



Solid waste Treatment Plant, Wet Waste Treatment Plant, BBMP Plastic Waste Treatment, Architecture aspects of Sri Narasihmaswamy temple, Devarayanadurga on 26<sup>th</sup> March, 2018.







Sanjana B Kallalli, N Sarika Reddy, Nishan M & Swathi M students 8<sup>th</sup> Sem. Technical paper on, “**Impact of Urbanization on Climate Change in Bangalore City and Mitigative Measures**” in *National Conference on Civil Engineering And Sustainable Urban Development – NCCESUD – 2018, Birla Institute of Technology, MESRA, Patna 16<sup>TH</sup> to 17<sup>th</sup> February 2018.*

**Dr. CHANDRASEKAR, Associate Professor has been awarded 2018 Best Theoretical-Oriented Paper Award for his paper on The Environmental & Water Resources by Institute of American Society for Civil Engineering will present this award during the World Environmental & Water Resources Congress 2018 in Minneapolis, Minnesota, during the Environmental Council Luncheon and Awards Ceremony which will be held on Tuesday, June 5, 2018 at Minneapolis.**

REPORTED BY: DR. S Vijaya

## Department of Information Science & Engineering

<u>Publications</u>	Dr. Nandini Prasad K.S <b>Development of On-Board Diagnostics for Car &amp; it's Integration with Android Mobile</b> at <i>2<sup>nd</sup> International Conference on IEEE Computational Systems and Information Technology for Sustainable Solutions</i> at RVCE, Bangalore held from 21/12/2018 to 23/12/2018.
<u>Workshops Organized</u>	<b>Cyber Security and Forensics</b> in association with Geeks Lab New Delhi Noida from 26/03/2018 to 28/03/2018.  <b>Finishing School for Industry Readiness</b> on 12/4/2018.  <b>Data Analytics Using R</b> in technical association Data Satva from 16/04/2018 to 21/04/2018.
<u>Seminars Attended</u>	Dr. B. S. Shylaja Symposium on <b>Cyber Security and Forensics</b> at Subex on 25/4/2018. Ms. Shilpa Biradar <b>Data Science and Communication Networks</b> during 2/1/2018 to 6/1/2018 at BMSCE, Bangalore.
<u>Industrial Visits</u>	1. Industrial visit to <b>ISRO</b> organized by departments of ISE, TCE and EI on 28/12/2017. Industrial visit to <b>Tata Consultancy Services</b> , Trivandrum on 19/1/2018.





## Snap Shots of the events





## Publications

Mahesan K V, **Multi-resolution Approach for the Segmentation of Brain Tumor from MR Images Using Active Contour Model** *Journal of Advanced Research in Dynamical & Control Systems*-Vol. 10, 01-Special Issue, Jan-2018 , Page 625-632 .

## Workshop Attended

1. Usha Rani M.A, Sowmya M, & Shruthi P.C. **National Workshop on Research Information Management in a Networked Environment** on 1<sup>st</sup> and 2<sup>nd</sup> March 2018, at Dr. AIT
2. Usha Rani M.A **Computer Networks Laboratory using NS3, NCTUNS, C++** during 23<sup>rd</sup> to 25<sup>th</sup> January 2018, at RNSIT, Bangalore.
3. Usha Rani M.A & Shruthi P. C. **Satellite Telecommunication** on 29/03/ 2018 at Institute Of Satellite Telecom Pvt. Ltd, Pune
4. Mahesan K V **Latest Research Trends in IT Industry** on 10.02.18 at Dr. AIT.
5. Kavitha Narayan B M & Sowmya M **Administration Fundamentals of Sales Force Cloud Platform** during 5th to 9th February 2018 at Dr. AIT
6. Kavitha Narayan B M & Shruthi P C **Intelligent Algorithms & Applications** during 17th to 19th January 2018 at Dr. AIT

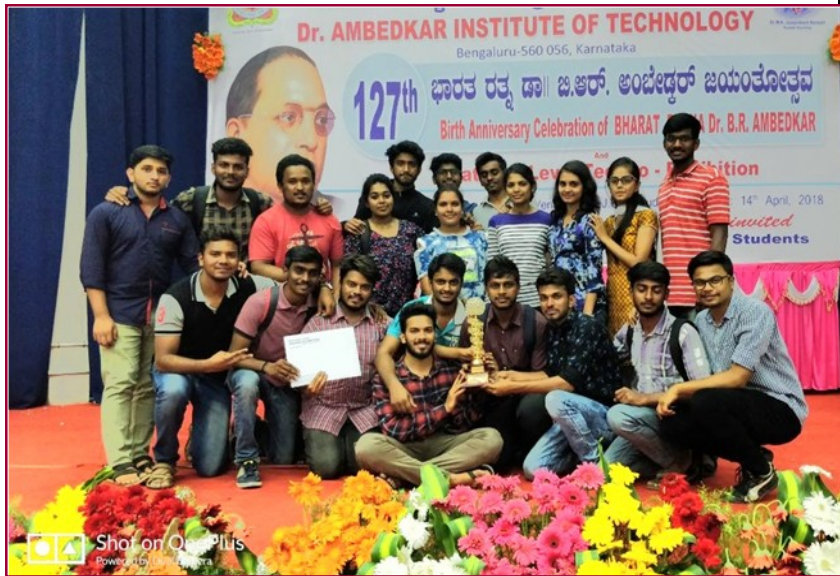


Industrial visit to Institute of Satellite Telecommunication Pvt. Ltd Pune.



**Telecommunication Technical Forum –TTF 2K18 on 09/02/ 2018**

**Various technical events were held as a part of the event.**



**Gaurav J & Darshan H O Secured First Prize in the National Level Techno Exhibition at Dr.AIT on April 14th 2018, for a project titled **Novel Technology for Remote Monitoring of Waste Water Treatment Plant** The project was funded by Bill and Melinda Gate Foundation in association with BITS GOA**

## Technical Talk Delivered :

Dr. Prashanth C.R at a Seminar on **Choice Based Credit Systems and its Implications** on 16<sup>th</sup> February 2018 at APS college of Engineering, Bangalore.



## KSCST Sponsored Student Projects

Sl. No.	Project Title	Student Name/ Guide name	Amount
1.	Andriod based Warfield ROBOT with Wireless Night Vision Camera	Team Leader: Mr.Chethan Gowda H S Guide: Mrs. Usha Rani M.A	Rs.6000/-
2.	ARM CORTEX M3 based Secured Data Transmission for Examination System	Team Leader: Mr.Bhargava.P Guide: K V Mahesan	Rs.5000/-
3.	Smart Phone Controlled Unmanned Ground Sensor Drone Vehicle for Air Quality and Environmental Monitoring	Team Leader: Ms.Swati.S Guide: Mrs. Sowmya.M	Rs.4000/-

REPORTED BY: Sudha T & Usha Rani M. A



INTERNATIONAL PATENT

Dr. B.V Sumangala and Mr. S Vasudeva Murthy Obtained a **US Patent** for their invention on **A Process To Extract Liquid Dielectric Coolant From Rice Bran Oil**

**Technical Talk**

1. **Power Quality Issues and Its Impact** on 3/02/2018, Speaker Dr. Pradip Kumar Dikshith, Professor at MSRIT Bengaluru
2. **Real Time Power System Operation & Control** on 26/03/2018, Speaker Mr. Raghuram, former Executive Director, SRLDC
3. **Technical Paper Writing Do's and Dont's** on 21/01/2018, Speaker Professor Raghuram-IISc Bengaluru

**Workshop Organised**

**Modeling & Simulations for Power Electronics & Drives using MATLAB** during 20th—24th Feb. 2018, in association with Kalyan Ram from Electrono Solutions

**Faculty Development Programme**

**Intelligent Algorithms and Applications** during 17/01-19/01/2018, Speaker Shri. Gangaprasad.

Four Faculty members attended the Workshop on CCS and DSP Lab 23-24/01/2018 RNSIT Bengaluru

**Talks Delivered**

Dr. B V Sumangala Delivered a Talk on **Applications of FACTS Controllers** on 21/03/2018 at R.V College of Engineering, Bangalore

Dr. Jyoti P Koujalagi Delivered a Talk on **Switched Reluctance Motor and its Control** 24/2/2018, BNMIT, Bangalore

## INDUSTRIAL VISITS

IV Sem. students at Simsha 5 kW Solar Plant on 06-02-18



VI Sem. Students Varahi Underground Hydro Power Plant on 12-02-2018





*INDUSTRIAL VISITS*

VIII Sem. & M Tech. Students Supa Dam Power House on 01-03-18





## Inauguration of TANTRIX– 2018 an Inter College Technical Fest

On 28th March



The Rangoli contest during Kalarava  
Tejaswari who won the first Prize



REPORTED BY: Nalini S

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## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

- \* Siddaraju A **Survey On Routing Protocols, Path Loss Models And Communication Technologies For Heterogeneous Network** *International Journal of Emerging Technology & Advanced Engineering (IJETAE)*, Volume 8, Issue 1, January 2018.
- \* M V Vijaya Kumar **Implementation of Modified Q learning Technique in EMCAP control architectures** *International Journal of Engineering Technology – February 2018.*
- \* M V Vijaya Kumar **Implementation of Modified SARSA learning Technique in EMCAP** *International Journal of Engineering Technology – February 2018*
- \* Mary Cherian **Novel Approach to Virtual Machine Migration In Cloud Computing Environment – A Survey** *International Journal of Science and Research, Volume 7, Issue 1, January 2018.*
- \* Prof. K R Shylaja **Artificial Minds with Consciousness and Commonsense Aspects** *International Journal of Agent Technology and System, February 2018.*
- \* Prof. Smitha Shekar **B Survey on Routing Protocol, Path loss models and Communication Technologies for Heterogeneous Networks** *International Journal of Emerging technology and Advanced Engineering, Volume 8, Issue 1, January 2018*

### Workshop Organised:

#### Machine Learning and Data Analytics A NEW FRONTIER 23rd & 24th Jan. 2018

**Speakers:** Mr. Balachander Agoramurthy Co-Founder & CTO Innov4Sight Health and Biomedical Systems Pvt. Ltd., Bengaluru, Mr. Anant Rajee Bara and Mr. Snijesh V P.

#### Administration Fundamentals of Sales force Cloud Platform 5th & 9th Feb.2018

**Speakers:** Mr. Rajesh Nambiar, Program Manager – Trailhead for Students (APAC), salesforce.com India Pvt. Ltd. Bengaluru, Mr. Kumara Murali Salesforce.com India Pvt Ltd.



A Government of Karnataka Sponsored Workshop on

Internet of Things Based Boot Camp on Smart Governance on 23rd & 24th March. In Association with



**Speakers :** Dr. H S Jamadagni ,IISC, Bangalore



**Workshop On**

**ACADEMIC INTEGRITY AND PLAGIARISM PREVENTION 15<sup>th</sup> March 2018**

**Speakers:** Dr. B S Mahanand Dept of ISE, SJCE, Mysore and Dr. Sunil M.V Dept. of Library & Information Science ,SDM Institute for Management Development, Mysuru.

**Workshop On**

**APPLICATION DESIGNING USING Qt- FRAMEWORK 19th to 25th February 2018**

**Speaker:** Dheerendra from Pthinks





## INTERRUPT 7.0



**Interrupt 7.0 is a 2-day Techno Cultural Fest on 9<sup>th</sup> and 10<sup>th</sup> of March 2018.**

Mr. Prabhudeva V H, Enterprise Architect and Consultant, Tata Consultancy Services Limited was the Honorable Chief Guest . The diverse number of events conducted this year made interrupt one of the most unique and sought-for fest in Bangalore. The technical events are Rapid Chess, Code Art, QR hunt, Tattoo mania, Fusion, Blind world, etc.

All the above events received a very good response and reviews from participants and audiences alike. It also received rave response from participants from other branches as well. To top it all, on the second day the cultural events such as dance, drama and singing kept the audiences and participants entertained and gave a platform for students to showcase their talents on a larger stage.

REPORTED BY:  
Rashmi N and Sowmya CL

## Department of Medical Electronics

Medical Electronics Students Association– MESA organized a Tech Paper Contest on 03/04/2018 covering all interdisciplinary topics related to Medical Electronics . The event was sponsored by a private company Life Sciences Bangalore.



Technical Talk on **Multi Modal Imaging for Medical Applications** on 24/03/2018 by Mr. Arun Shreedhar—Philips Healthcare Bangalore an Alumnus of the department





**Internship at BGS Global Institute of Medical Sciences Bangalore for 6th semester during 08/01/2018 to 19/01/2018**



6th semester students at National Institute of Mental Health & Neuroscience– NIMHANS– Bangalore during 27th & 28th Feb. 2018





## LIBRARY

<b>Workshop Organized</b>	<b>Research Information Management in a Networked Environment</b> on 1 <sup>st</sup> and 2 <sup>nd</sup> of March 2018
<b>Technical Talk Attended</b>	H. J. Nataraja <b>Library and Information Science Profession at the Crossroads: Challenges and Opportunities for a Great Future</b> on 28 <sup>th</sup> March 2018 at Documentation Research & Training Centre Indian Statistical Institute Bangalore.

REPORTED BY:

H G Nataraja

# SPORTS

**Mr. Gagan representing State team in Cycling Nationals at Jamkandi during 25th to 28th October 2017.**



**Mr. Akshay Ram of I semester Civil selected for the state Hand Ball team and participated in the nationals held at Tenali Andhra Pradesh on 24<sup>th</sup> to 26<sup>th</sup> January 2018.**



## J.P.N Staff Tournament



The Tournament for Cricket, Volley Ball, Kabaddi, and Throw ball for women was held in the month of December 2017

### Student Participation in EVENTS

Basket Ball Teams (Men and Women) participated in R.V.C.E. Tournament in the month of January 2018.

Cricket team participated in R V C E cricket Tournament in the month of January 2018.

Foot ball team participated in V T U Foot Ball tournament held at MSRIT Bangalore on 20<sup>th</sup> and 21<sup>st</sup> February 2018.

Cricket team participated in VTU Cricket Tournament held on 1<sup>st</sup> March 2018 at C M R I T Bangalore.

Cricket team participated in VTU volley ball Tournament held on 2<sup>nd</sup> March 2018 at H K B K Bangalore.

REPORTED BY : K J SHIVAKUMAR  
Physical Education Director

### EDITORIAL :

CHIEF EDITOR : Dr. C NANJUNDASWAMY, Principal  
EDITOR : Dr. SHANTHI K J , HOD Medical Electronics

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