

Dr. Ambedkar Institute of Technology

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



NEWS LETTER

Jun.-Dec. 2017



Our Vision

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



From the Principal's Desk

At the outset I extend a Happy and Peaceful New Year Greetings to all the readers.

The Institution is accredited with A grade by National Assessment and Accreditation Council NAAC and certain UG & PG departments are accredited by the National Board of Accreditation NBA, while the preparations are on for the remaining departments.

AIT is always looking for new frontiers to attain its vision.

The institute is embracing itself the induction programme for the first year students, which would add human value to their education, help build gradually a definite human conduct and inculcate the social responsibility in them. This is a nation wide policy and is being adapted and implemented in our institution. And senior teachers are trained to impart induction training programme.

The institute is identifying young enterprising students to groom them into flourishing entrepreneurs. The funding is provided through TEQIP III and the institute is slating its own policy to ensure proper utilization.

We march ahead with full glory and enthusiasm in our heart and mind.

Wishing all the Very Best to the online Institute News Letter and its Readers!

Best Regards

Dr. C Nanjundaswamy

Founders Day: Dec. 21

The institution celebrated the 91st Birth Day of the Founder Late Sri. MH Jayaprakash Narayan on December 21st. All the educational institutions of the PVP Welfare Trust had participated in the Founders Day celebrations. Honourable Minister for PWD Dr. H C Mahadevappa was the chief guest for the function. And the function was presided by honourable Chairman Shri S Mariswamy. The Honourable Secretary Shri AR Krishnamurthy, Honourable trustees Shri PL Nannjundaswamy, Shri S Shivamallu and Dr. M Mahadeva had graced the occasion.

The Institute celebrates the Kannada Rajyotsava Day on the same day. The thinker and the Chairman Kuvempu Bhasha Bharathi Pradhikara Dr. K Marulasiddappa was the invited speaker of the day.



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.



Honourable Minister for PWD Dr. H C Mahadevappa garlanding the JPN Bust





Chairman Kuvempu Bhasha Bharathi Pradhikara Dr. K Marulasiddappa being felicitated and addressing the gathering during the Kannada Rajyotsava celebrations



SCIENCE CLUB

Padma Bhushan awardee Dr. B N Suresh former Director, Vikram Sarabhai Space Centre addressed the first year students on The Excitement of Rocket Science on 10th Oct. 2017

Principal Dr. C Nanjundaswamy Dean Academic Dr. M N Hegde had attended the event. Honourable Chairman Shri S Mariswamy had presided over the function. And honourable Secretary Shri AR Krishnamurthy had graced the meeting. The event was coordinated by Dr. Veena Amarnath Head of Chemistry Department.



Padma Bhushan Dr. BN Suresh addressing the first year students

Alumni Meet –2017

The College had organized the annual Alumni Meet on December 9th. Nearly 300 Alumni had attended and relived their memories, shared their experiences. Honourable Chairman Shri S Mariswamy had presided over the function. And honourable Secretary Shri AR Krishnamurthy had attended the meeting.

Principal Dr. C Nanjundaswamy gave a report on the college while Dean Academic Dr. M N Hegde delivered the Vote of thanks. The three Alumni from the earlier batches were felicitated on the occasion. Principal declared that hence forth the Alumni Meet would be held on the second Saturday of December.



Publications

N. Muralidhara, Rajesh, Rajashekhar C Biradar, and Jayaramaiah G.V **Designing Polyphase Code for Digital Pulse Compression for Surveillance Radar** *Second IEEE International Conference on Computing and Communications Technologies (ICCCT)* pp.1-5, Feb. 2017

Mohankumar.V and Dr.G.V.Jayaramaiah **Design and Verification of a Robust Neural Network Based Kannada Base Character Recognition System** *International Journal of Informative & Futuristic Research* vol.4, issue 5, pp.6259-6265, 2017

Mahalinga V. Mandi, Dileep D and Ramesh S **Generation of Binary Sequences having Better Odd Correlation and Linear Complexity Property compared to Gold Codes for use in Global Navigation Satellites Systems (GNSS) Applications** *IEEE International Conference Proc. of IEEE- ICCTCEEC 2017*, Sept. 2017, pp.69 - 74

Naveen K N, K. Ramesha and Harshaveni **Performing Ranging Process on OFDMA System Using MMLD Algorithm for Improving Timing Offset Estimation** *International Journal of Social, Technological and Environment Sciences* vol.6, no.2, pp.496-507, May-August 2017.

Harshaveni, Naveen K N and K. Ramesha **Multi-User Ranging Code Detection in OFDMA System Using MMLD Algorithm for Improving Detection Performance** *International Journal on Recent and Innovation Trends in Computing and Communication* vol. 5, issue: 6, pp.1326 – 1331, 2017.

Kalyani H N, H Umadevi **Efficient FPGA Implementation of Radix 8 Partial Product Generator for FIR Filter and MAC Applications**, *International Research Journal of Engineering and Technology*, vol. 04, issue: 05, May -2017, p-ISSN: 2395-0072

Ramesh S, Dileep D and Mahalinga V Mandi **Generation of Binary Sequences having better Odd Correlation and Linear Complexity Property Compared to Gold Codes for use in Global Navigation Satellite System (GNSS) Applications** *Proceeding of IEEE International Conference on CTCEEC (ICCTCTEE)* pp.69-74, 2017

Ramesh S and Spoorthi C **FPGA Implementation of Linear Frequency Modulation Waveforms for Radar** *MATS Journal, Journal of Digital Integrated Circuits and Electrical Devices* vol.2, issue.3, pp.1-8, 2017

Prashanth Kumar B T, Siddesha K and Kavitha Narayan B M **Real-time Embedded Based Environment Monitoring System with IOT Technology** *International Journal of Emerging Technology and Advanced Engineering* Vol.7, issue.9, pp.718-723, Sept.2017

Workshop Attended

Dr.Mahalinga V Mandi, Workshop on **Preparation of Procurement Plan and Action Plan for Academic Activities** NPIU at Dr. APJ Abdul Kalam Technical University, Lucknow on 4th August 2017

ELECTROTECH 2K17

The annual inter-college technical event from Electronics and Communication Engineering student of the department called “**ELECTROTECH 2K17**” organized with the great enthusiasm and determination among the new set of student coordinators, volunteers and faculty coordinators on Thursday September 14th, 2017.



Congratulations !!
Ph.D. Awardees



Dr. Shilpa KC was awarded with Ph. D. Degree from the Visweswaraya Technological University VTU for her these titled **Scheduling and Allocation in High Level Synthesis using Evolutionary Computation**

Dr. Shivaputra was awarded with Ph.D. Degree from Jain University for his theses titled **Design and Development of Efficient Algorithms for Lossless Image Compression**

REPORTED BY: Vidyashree C

8

DEPARTMENT OF ELECTRICAL ENGINEERING

Publications

- * Pankaja H.G, P. & Meena Control Strategy for an Induction- Generator in TSCAO1 Mode **2017 International Conference On Smart Conference On Smart Technologies For Smart Nation** 17-19 Aug 2017, *International Conference On Smart Conference On Smart Technologies For Smart Nation* Reva University Bangalore, India under IEEE section.
- * Rekha S & Prof. V Keshavamurthy **Dynamic Power Factor Regulation Using Thyristor Switched Capacitor For Industrial Loads** *2017 International Conference On Smart Conference On Smart Technologies For Smart Nation* 17-19 Aug 2017, Reva University Bangalore, India under IEEE section.
- * Ms. Mauna, Dr. Shankarlingappa C.B, Resonant Inverter with IGBT for Induction Heating Applications *IJIREEICE*, Vol 5, Issue 9, September 2017, ISSN: 2321-2004, PP82-89.
- * Mr. Manjunath A, Dr. Shankarlingappa C.B **A New Multilevel VSI With SPWM For Medium Voltage Application** , *IJIREEICE* Vol. 5, Issue 8, August 2017, ISSN 2321-2004, PP:4-12
- * Mr. Manjunath A, Dr. Shankarlingappa C.B **A New Multilevel VSI With SPWM For Medium Voltage Application** *IJIREEICE* Vol. 5, Issue 8, August 2017, ISSN 2321-2004, PP:4-12
- * **Mr. Eranna, Dr. B.V Sumangala, Dr. G.R Nagabhushana Surge Voltage Distribution In A Transformer Winding Model For Fast Rising Double Exponential Switching Surges** *IJAERD*, Vol 4, Issue 9, September 2017, PP62-66, ISSN:2348-4470

Technical Talk on Paper Writing – Do's and Don'ts on 28th August 2017
P T RAGHURAM Professor, IISc Bengaluru.

Industry Visits:

1. **Varahi Hydro Electric Power Plant -12/10/17**
2. **Sharavathi Hydro Electric Power Plant –01/09/17**



Students on Industrial Visit



NSS Activities:
Students on
Cleanliness
Campaign on
10/09/17
at Mallathalli
Slum and
Vijayanagara

Publications

- * Vidya Honguntikar, G S Biradar, **Frog Based Routing Algorithm To Enhance Lifetime Of Wireless Sensor Network** *International Journal of Computer Network and Information Security* 2017,8,9-15,DOI 10.5815.
- * Mahesan K V **Identify The Attacked Information From The Spoofers By Using Passive IP Traceback (PIT) Method** *International Journal of Engineering Science and Computing (IJESC)*, Vol. 7, Issue 8, Aug 2017.
- * Sudha H. Thimmaiah and Mahadevan.G **A Range Based Localization Error Minimization Technique for Wireless Sensor Network** *Indonesian Journal of Electrical Engineering and Computer Science* p-ISSN: 2502-4752; e-ISSN: 2502-4760 UGC Approved Journal No: 47077 DOI: 10.11591/ijeecs.v7.i2.pp395-403.
- * Shreyas Goutham Kumar, K V Veerabhadra Swamy, C. R. Prashanth **Quantum Modeling Of Transport Theory In A 1-D Nano Device** IEEE Xplore on 02 October 2017 at Bangalore.
- * Mahesh N Naik, C. R. Prashanth **Design of Compact Annular Ring Micro strip Antenna for Multiband Communication System** *Journal of Network Communications and Emerging Technologies (JNCET)*, Volume 7, Issue 8, August 2017. ISSN: 2395-5317, Ever Science Publications.
- * Nadiya N, C. R. Prashanth **Secured Clone Detection using Witness Head Selection to Avoid Malicious Nodes in WSN** *International Journal of Computer Science & Communication Networks (IJCSCN)*, June-July 2017, Vol 7(3), 46-51
- * Chandrakala V **Face Recognition on Local Pattern of DWT and LBP** *International Conference on Science, Technology & Management (ICSTM-2017)*; 24th September 2017, Bangalore, India.

Workshop Attended

Sudha T & Vidya H **Teach Smart and Not Hard** on 22nd September 2017, organised by Dept. of MBA, Dr. AIT.

Industrial Visit :

Students of 5th semester-visit to **KELTRON and HARRISON'S MALAYALAM LIMITED** Kerala on 13th to 15th November 2017.

Internship:

- Dheeraj S. E. and Prasanna V Kamath III Sem. Students Internship on IoT; JSS Academy of Technical Education, Bengaluru; July 29th – Aug 5, 2017.
- Nagashree K. V.& Poojashree A. P. V Sem. Students Internship at KONIGTRONICS (OPC) PRIVATE LIMITED; 11TH Jun-11th Aug 2017.

R & D Projects

The Department has been awarded the VGST Project Titled : **Monosek for Network Security Lab**

Other R & D Projects

- * **Inception of IOT Test Bench to Facilitate Experimentation, Research and Product Development on Device to Device Communication using Multiple Sensor Node Analysis**
- * **Remote Engineering and Virtual Instrumentation through Establishment of Remote Communication Laboratory**

Industrial Visit :

Students of 5th semester-visited the industries **KELTRON** and **HARRISON'S MALAYALAM LIMITED** at Trivandrum & Wayanad , Kerala on 13th to 15th November 2017.



Internship:

- Dheeraj S. E. and Prasanna V Kamath III Sem. Students Internship on IoT; JSS Academy of Technical Education, Bengaluru; July 29th – Aug 5, 2017.
- Nagashree K. V.& Poojashree A. P. V Sem. Students Internship at KONIGTRONICS (OPC) PRIVATE LIMITED; 11TH Jun-11th Aug 2017.

Best Intern Award

Prasanna Kamath –III Sem. Student Won Outstanding Performance award at Internship on IoT at JSS Academy of Technical Education, Bengaluru; July 29th – Aug 5, 2017.



REPORTED BY: Ms. Sudha T

Department of Chemistry

Dr. S. Soundeswaran Degradation Of Organic Pollutants By Indirect Electrochemical Oxidation Process Using Composite Electrode *International Journal of Engineering Research and Advanced Technology (IJERAT)* Vol.3 (8) Aug -2017, pp 42-47.

DEPARTMENT OF MBA

Publication

- * Dr. Baskaran.S **Study On Pay Tm – Opportunities And Challenges In Business** *International Journal - Asia Pacific Journal of Research* on August 2017, Vol 1, Issue 4. ISSN: 2320-5504.
- * Ms. Shailaja M.L **A Study On Technical Analysis Of Stocks Listed In NSE With Respect To Banking Sector** *International Journal - Asia Pacific Journal of Research*, August 2017, Vol 1, Issue 4. ISSN: 2320-5504.
- * Ms. Kavitha. S **A Study On Customer Loyalty Towards BSNL Broadband Services At Vijaynagar, Bengaluru** *International Journal of creative research Thoughts - IJCRT* , Vol. 5, Issue 3, September 2017. ISSN: 2320-2882.

Conference Attended

Faculty presented papers at International conference on Ecosystem for growth of Business held on 8th and 9th September , 2017 at Acharya Bangalore B School, Bengaluru.

Ms. Shailaja M L **Social Entrepreneurship – A Tool For Sustaining The Competitive Business World**

Dr. Leela M H and Ms.Kavitha S, **Conceptual Framework on Government Initiatives and Developments of Tertiary Sector in India**

Technical Talk Delivered

Dr. Baskaran S delivered a talk on **Research Methodology** on 12/9/17 at St. Joseph College, Bengaluru

Dr. Susheela Devi B Devaru delivered a lecture on **Management Process** at East west College of Management on 31/8/17

Management Development Programme Organised
Teach Smart and Not Hard on 22/9/17

Faculty Development Programme Attended

- * Dr. Leela M H & Mrs. Rajeshwari R R, **Research Methodology & Data Analysis – Using R** during 10/8/17 to 12/8/17 held at RNSIT-MBA, Bengaluru
- * Dr. Susheela Devi B Devaru and Ms.Kavitha S, **Digital Marketing** on 27/9/17 at Department of Management Studies Surana College, Bengaluru on 27th, September 2017.

REPORTED BY: Kavitha S

Technical Talks Organised :

Career Mentoring And Preparation Steps Necessary To Prepare For CAT/GMAT:

on 22/08/17

The Talk was arranged for pre final year students under the Department Technical Club DISC by Byju's class, Bawas organized

Compumusic Technology on 12/10/2017

By: Prof. Chidambara Kalamani, PESU, Bangalore

Workshop Attended :

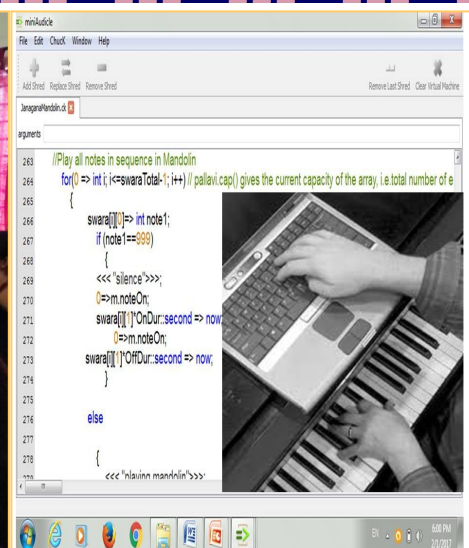
1. Dr. Nandini Prasad K.S and Ms. Pushpalatha S : National Level Workshop **Bloom's Taxonomy: A Taxonomy for Accreditation** at MSRIT Bangalore on 28/7/2017.
2. Dr. Nandini Prasad K.S : TEQIP -III Orientation Workshop for **Student Learning Assessment (SLA)** at AICTE, New Delhi on 11/11/2017.
3. Mr. Satish B. Basapura and Mr. Shivakumar C: **Python Programming** at SJBIT Bangalore during 31/7/2017 to 5/8/2017.

ORIENTATION PROGRAMME

DISC organised the programme for III Sem. Students on 09/9/2017

Subex Limited Bangalore, visited the department on 13/9/2017 and proposed their vision to setup the Internet of Things—IoT lab in the department.

Students at COMPUMUSIC Talk



REPORTED BY
Dr. Nandini Prasad KS

Department of Instrumentation Technology

Technical Talk :

Embedded Systems And Industrial Automation 11/09/2017

BY: Mr. Shivashankar and Ms Ranjitha

Prolific Systems & Technologies Pvt. Ltd. Bangalore

The talk was organized under the banner of ISTE Students Chapter. Mr. Shivashankar has very rich experience on Industrial Automation and Embedded systems. During the talk he highlighted about various industrial automation, and its related control hardwares and softwares like PID Controller, PLC, DCS and SCADA. During his talk the speaker also emphasized on the latest developments in Industrial Automation.

Ms. Ranjitha spoke on the Embedded Systems Basics & its Applications in day to day life. Students were immensely benefited by this talk learning about the Industrial Automation and Embedded Systems Applications.





Senior students welcoming the 3rd Sem. Students and arranging the Orientation Programme

PARICHAY on 29/08/2017

Reported by : Ms. Shubha P

DEPARTMENT OF MEDICAL ELECTRONICS

PUBLICATIONS

- * Ravish D K, Shanthi KJ **Parametric Spectral Estimation of Transient Otoacoustic Emissions for Auditory Function Measurement** *International Journal of Innovative Research in Science and Engineering* Vol. No.3, Issue07, July 2017
- * Shanthi KJ , Ravish D K, **A Guide to Practical Implementation of Wavelet filters for Image De-Noising** *IOSR Journal of Electronics & communication Engineering* Vol. No. 12 Issue 03 May-June 2017
- * Kamala C, Nayana R Shenoy, Vindhya K **Performance Evaluation of Wide Bandwidth RF Signal Generator Chip** *International Journal of Advanced Engineering Research and science (IJAERS)*

CONGRATULATIONS



Dr. D K Ravish has been awarded with Ph.D. degree from Anna University for his theses titled “Analysis of EEG Signal for Seizure Detection and Prediction”

Activities

WORKSHOP ON PYTHON PROGRAMMING during 9/10 & 10/10/2017

**Training on Embedded Systems in Association with Texas Instruments—
EDGATE Technologies Bangalore on 17/11/17**

Technical Talk on Electrical Safety for Biomedical Equipments by Mr. Rizwan Khan—CEO TransCall Bangalore— an Alumnus of the department on 18/11/2017

The final year students visited the Biosensors Lab at the School of Electronics—VIT Vellore on 7/11/2017



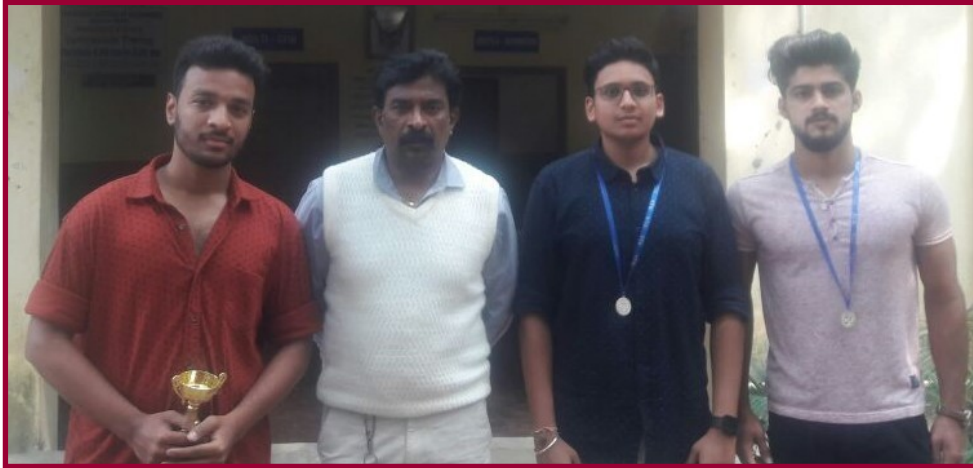
Students & faculty at VIT- Vellore



Workshop By EdGATE Technologies



SPORTS



Tejas S k, Silver Medal & Bharath Chandra Bronze Medal at VTU Single Zone Taekondow held at Vemanna IT during 9th & 10th Nov. 2017



REPORTED BY : K J SHIVAKUMAR

Gagan Gold Medalist at the National Level Cycling competition



Vishal Patel representing the state team at the National Level Sepak Takraw Game



EDITORIAL :

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

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, OUTER RING ROAD MALLATHALLI BANGALORE-56
PH. NO. 23218534,23211232, FAX: 080-23217789 WEBSITE www.dr-ait.org