



If You
Ate Today,
Thank
A Farmer.



BLDEA's

V. P. Dr. P. G. HALAKATTI COLLEGE
OF ENGINEERING & TECHNOLOGY

Editors:

Dr. Swastika Das,
Dr. Kailash S. Chadchan
Prof. Santosh Chinchali

Editorial...

Welcome to this first quarter of the year. Time flies as the new ideas crop up daily, new technology replaces the old and to keep pace with the change the year rolls over. The new thing round the corner which has again put everyone on their toes is Internet of Things or IoT. The “**Internet of Things**” (IoT) has the power to change our world through a pretty simple concept- it means taking all the things in the world and connecting them to the internet. IoT is going to play an important role in the future and the world is expected to see a significant amount of cash flowing through the market in

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Cover page theme:

Krishi Vihar - Invictus 2019

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the up-coming years. Over half of major new business processes and systems will incorporate IoT elements by 2020. It is the next industrial revolution which is going to change our lives in ways never imagined before. With last industrial revolution which is Internet, the way we communicate and connect with people has changed like never before and also the Internet boom has improved our lives in many ways. IoT is creating a plethora of possibilities for businesses to get more efficient, helping them control valuable data for analysis and turning dumb devices to intelligent machines. Business owners have to take better decisions for increasing operational efficiency for this they should need accurate analytics. IoT based actionable business analytics is very beneficial for enterprises. Overall benefits are so huge that it is now need of the hour that all engineering students and faculties must learn this new concept to get placed in the industry and to incorporate it into daily life. Hence in our Institution we had a few sessions to understand IoT. Students and faculties participated in the seminar, workshops and FDPs on IoT. Our faculty also delivered lecture son IoT in diffent Institutions to enlighten the society at large.

Technical Fest plays an important role in the college curriculum. It is one such event where young brains get to showcase their skills and compete with others to find the best. It is not just about the competitions but also an event where a lot of those new ideas are seen live and learn more and be inspired. Such inspiring events that happen every year in various colleges help guiding engineers to dream bigger and make those dreams come true. College fests are a great platform to showcase leadership quality in students and organizational skills. Students learn to coordinate, manage, interact and work together as a team aimed at achieving a common objective. Every year we organize a National level Tech Fest named INVICTUS wherein students from many colleges participate in different events. This is a platform to learn only. Hence the two days festival brings joy to all its stake holders. Similarly, we celebrate all the significant days of the year with much enthusiasm including the students and faculty members. This issue has all the events organized by the Institute in the first three months of the year.

STUDENTS WHO BROUGHT LAURELS TO THE INSTITUTE



Student of M. Tech. Thermal Engineering “Mr. Manjunath Bhimaraya Kembhavi” (2BL16MTP01) has secured first Rank in VTU PG Exam 2018-19 with 8.49 CGPA.



Student of M. Tech. Machine Design Engineering “Mr. Jayaram S”, has secured 6th rank (2BL16MMD01) in VTU PG Exam 2018-19 with 8.69 CGPA.



Student of M.Tech in Digital Communication and Networking Miss. Asha Kannolli, secured First rank in VTU PG Exam 2018-19.



Student of M. Tech. Digital Communication and Networking. Miss. Sunita Rathod, secured Second rank in VTU PG exam 2018-19



SHORT TERM TRAINING PROGRAMM ON “CURRENT TRENDS AND TECHNOLOGIES OF INDUSTRY”

A short term training program on Current Trends and Technologies of Industry was successfully organized from 5th March 2019 to 9th March 2019 by Department of Mechanical Engineering and Mechanical Engineering Student Association [MESA] in B.L.D.E.A'S College of Engineering and Technology, The Programme was mainly focused for Pre Final Year and Final year Under Graduate Students . The programme

was inaugurated in the LIBRARY SEMINAR HALL on 5th March 2019 at 10:30 am. The session was graced, by Prof. G.V.Patil Head Dept.. of Mechanical Engg, Prof. P. V. Malaji, Mr. Veeresh Biradar [Technical specialist] Robert BOSCH PVT. LTD and Prof. P . S. Patil, Coordinator of the programme. Prof. G. V. Patil and Prof. P. V. Malaji briefed about the importance of such programs for Mechanical Engineering students and

Staff. More than 80 students participated in this program.

The Technical Talk delivered by Mr. Nithyanand & Veeresh Biradar was focused on following key points: Artificial Intelligence (AI), Machine Learning, Robotic Process Automation, Blockchain, Virtual Reality and Augmented Reality, Internet of Things.



Dr. Muralidhar Development Manager, Denske IT, Bangalore delivered a **Technical Talk on Data Analytics**. The main goal of this technical talk was to provide the insights of what's the latest trend in the area of Big data analytics. In his talk, Dr. Muralidhar covered the importance of data analytics and provided the various tools details used for the data analysis.



Mr. Rakesh Patil Technical Trainer, Ashok Leyland, explained students about working of automobile Engine on Ashok Leyland Truck brought to the institute.



Blood Donation Camp was jointly organized by dept. of EEE and B.L.D.E.A's IEEE student society in association with BLDEA University Blood Bank on 30th march 2019. Students and staff members were actively participated in the Blood Donation Camp and made this social cause event successful. Totally 90 students and staff donated the blood.



Students of B. L. D. E. A's S. B. Arts and KCP Science College visited Digital lab and Power Electronics lab of E & C Department on 18th march 2019. This was a part of MoU signed by the two Institutions. This program was coordinated by Prof. P. S. Patil, Mr. S. N. Kugnoor and Mr. M. S. Doddamani.



TCS Tech Bytes

Mr. Amogh R. Lakkanagavi and Atif Hunachagi of CSE Department have secured First place in “TCS Tech Bytes” Zonal Level competition held at PDA Engineering College Gulbarga and they have also won 3rd place in “TCS Tech Bytes” State Level competition held in Bengaluru.



Praxis

Mr. Amogh R. Lakkanagavi, of CSE Department have secured 1st rank and Mr. Manikant Seth and Ms. Charmi Oswal of CSE Department have secured 3rd rank in “IT Quiz” at PRAXIS event held in K.L.E.I.T, Chikodi.



Workshop

One week ISTE approved FDP on 'IoT and Cadence' was organized from 1st to 6th February 2019 by E&C Department. The FDP is coordinated by Prof. A. H. Jamadar and Prof. R. M. Math.



IoT Workshop

Prof. R. M. Math and Prof. V. C. Sajjanar, faculties of E&C department conducted IoT workshop in BEC Bagalkot under BEC TEQIP on 17 and 18 February 2019.



Linux for All

Workshop

Two days workshop on “Linux for All” was conducted on 15th and 16th February, 2019 by Electronics and Communication Department.

DESIGN AND SIMULATION

Hands-on workshop on 'Design and simulation of electronic circuits using open source' was organized on 25th February 2019 for 4th semester students of E & C Department. The program was coordinated by Prof. M. S. Jolad and Prof. D. I. Hatti.

PROJECT METHODOLOGY

Two days workshop on Project Methodology was conducted on 23rd and 24th February 2019 for final and pre final year students of E & C Department. The workshop was coordinated by Prof. P. S. Patil, Prof. S. K. Padaganur and Prof. U. D. Dixit.

Seminars and guest lecture organized by various departments

- One day seminar was organized by Department of Civil Engineering on *Rain Water Harvesting methods & Soil health monitoring* on 22nd February 2019. Prof. S A Warad & Mr. S P Wathar were the coordinators. Dr. Shirahatti & Dr. G. R. Rajakumar were the resource persons.
- A guest lecture was organised by Department of Civil Engineering on “Liquefaction Analysis” by Dr. Kalyan Kumar, Asst. Professor NITW was arranged on 23rd February 2019.
- A Guest Lecture was organized by Department of Electrical and Electronics Engineering on “Modern Hydro Electric power plant using SCADA” on 1/4/2019. The resource person was Mr. Allamaprabhu. M. Ambi, Asst. Executive Engineer KPTCL, Almatti.
- Prof. Arvind Kotagond and Dr. Ramesh Jeergale were invited to chair a session at 4th National Conference on “Research and Development in Mechanical Engineering (NCRDME 19)” under QIP BCUD SPPU, Pune on 1st to 2nd March 2019.
- Dr. P. V. Malaji was invited for a Technical talk on “Introduction to MATLAB and its applications to Mechanical Engineering students in KLEIT Hubballi on 27-02-2019.
- Prof.S.K.Padaganur, Faculty of E&C Department delivered a talk on ‘Communication Protocol and Internet Devices’ at BLDE Polytechnic on 22 February 2019.



ENGINEERING INNOVATIONS

The Department of Information Science & Engineering,, Computer Science & Engineering in association with NAIN-Incubation Centre, organized a One-day workshop on “Engineering Innovations” by Consortium of Electronic Industries of Karnataka (CLIK) on 8th March 2019. CLIK is a non-profit organization registered under societies act. Their objective is to promote vibrant electronic industries in Karnataka by creating a platform for establishing

contacts, learning new technologies, forming new alliances and networking with industry players. The objectives are achieved through seminars, exhibition etc. About 80 students, 20 staff members and 8 local entrepreneurs attended the workshop. The workshop enabled the audience to understand the need of innovation and the systematic innovation process. The discussions with entrepreneurs provided an opportunity to the students to understand the experiences

and difficulties faced by entrepreneurs, during their endeavors. Dr. Arun Bharadwaj (Founder and Chief Mentor, Happiness Technology) delivered two talks on *Understanding the Need for Innovation* and *Understanding Systematic Innovation Process*. Mr. Mohandas, Mr. Madhav Badsheshi, Mrs. Irfana (Click Technology pvt. Ltd) delivered talks on “Creating Value Through Industry Academic Interaction.”



Faculty Development Program (FDP) on IoT:

The Department of Information Science and Engineering has conducted one Week Faculty Development Programme on “IOT and its Applications” from 18th Feb 2019 to 22nd Feb 2019. This program aimed at providing the students the foundation for building innovative products and applications involving the low-cost sensors, microcontrollers and IoT platforms. It would also focus on importance of prototypes in building the commercial products.

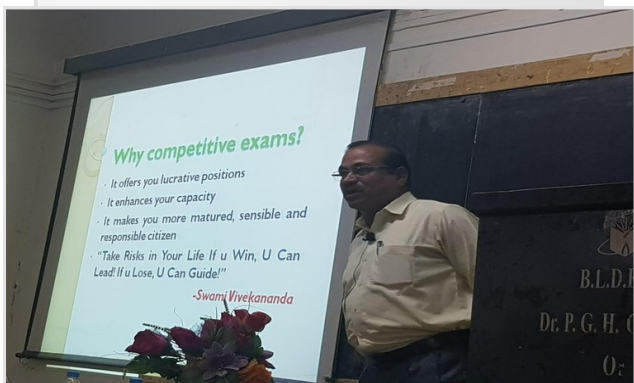
Resource Person Shri. Achyut Yargal, Asst. Professor, Dept. of ECE, BLDEA's CET, Vijayapur enlightened the participants about the Basics of IoT and its importance in present context, building blocks of IoT framework, Open-source hardware

and software components for IoT, Installation of Arduino IDE on windows platform (hands-on) and Importance of sensors for IoT applications.

Another resource person Shri S. N. Deshmukh, Asst. Professor, Dept. of ECE, BLDEA's CET, Vijayapur conducted sessions on Working principle of DHT11(Humidity + Temperature) sensor, Moisture sensor, LDR and Ultrasonic sensor (hands-on), Necessity of cloud platform for IoT applications, Getting started with Thing Speak as open-source IoT platform and Sending sensor data to Thing Speak Cloud server and data visualization (hands-on).

Shri Vijaykumar Sajjanar, Asst. Professor, Dept. of ECE, BLDEA's CET, conducted session on Introduc-

tion to Blynk Platform (iOS and Android app) to control Node MCU over the Internet, Downloading and installing Blynk App on Android phone (**hands-on**), Blinking LED using Mobile phone (**hands-on**), Sending sensor data to Blynk Cloud server and data visualization. Lastly, Prof. Rajinder kumar Math, Coordinator, CoE in IoT , Dept. of ECE, BLDEA's CET, Vijayapur enlightened the participants about Android App: Design and Customization , for IoT applications -Learning usage of relays for real world applications (Demo), Build Voice Controlled IoT Application for controlling multiple devices (hands-on) and Advantages of hosting web server for IoT application, Basic html coding, Build a local web server using Nodemcu (hands-on) .



WORKSHOP

One day Workshop titled “Competitive Exams - An Awareness” was organized by Department of Automobile Engg, IQAC, Central Library and TP cell in association with Classic IAS/ KAS Study Circle, Dharwad on 6th March 2019 to create awareness among students community. About 115 final year students of our institute participated in the workshop.



WORKSHOP

Two days’ workshop on “Emerging trends in Quality Education in Institutes of Higher Education” was organized by IQAC of the Institution on 22nd and 23rd February 2019. This workshop was organized with the academic approval of NAAC-Bengaluru. The objective of the workshop was to discuss the current status of higher education (HE) in India which is not up to the quality. Deliberations took on the possible reasons for the current poor quality of HE and also the possible solutions to improve the present status.



Entrepreneurship Awareness Camp

An Entrepreneurship Awareness Camp was organized on 28th Feb 2019 to 2nd Mar 2019 by Dept. of Information Science & Engineering. This workshop aims at providing the students about the foundation of entrepreneur Skill through various Session and industry visits. Sessions were handled by eminent entrepreneurs from local industry. The discussions with entrepreneurs provided an opportunity to the students to understand the experiences and difficulties faced by entrepreneurs, during their endeavors.



BRIDGE COURSE

Bridge course on "Core Java: A practical Approach” was conducted by CSE Department during 11th Feb. to 15th Feb 2019 for 4th semester students to extend their knowledge from C++ with a practical mode. The Coordinators for the event were Mr. Ravi Hosur and Mr.C.S. Kusur. Another Bridge course on C++ was conducted during 4th Feb. to 8th Feb. 2019 for 4th semester students to give them a brief insight into the concepts of Object Oriented Programming. The event was coordinated by Mr. Kiran Patil and Mr.Pavan Mahendrakar.

5-Days FDP/SDP on IoT and its Applications



Internet of Things (IoT) is a new revolution in the Internet & communication technology. Government, academia, and industry are involved in different aspects of research, implementation and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defense sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. Making a device as a smart device (intelligence) is called IoT. In this system, there are many android and server based application., where signals coming out of the sensors (e.g. temperature sensor, motion sensor, accelerometer sensor etc.) will be shown on GUI or web server or android application through wireless

communication and the device will be controlled automatically. These devices will be operated on Wi-Fi / GPRS.

Aiming to provide an intense Hands-on Advance Technology for Degree College Students and Faculties, a Five Days knowledge enrichment programme on “IOT and its Applications” was held during 12-March-2019 to 16-March-2019 by the Department of Masters of Computer Applications (MCA) at B.L.D.E.A’s V. P. Dr. P. G. Halakatti College of Engineering & Technology, Vijayapur-586103. The outcome of the FDP are as follows:

- Knowledge on fundamentals of IoT paradigms, architectures, possibilities and challenges, with respect to software and hardware
- A wide competence from different areas of technology, especial-

ly from Computer Engineering, robotics, electronics, intelligent systems.

- Understanding the meaning of IoT and how it relates to Cloud computing concepts.
- How open platforms allows us to store sensor data in the Cloud.
- The basic usage of the Arduino environment for creating our own embedded projects at low cost.
- How to connect Arduino to Android phone. How to send data to the Cloud and allow machines to talk to each other.
- How to update sensor readings on Twitter (Social Networking Sites). Control a Relay Switch by texting from the mobile Phone.

Resource persons of the FDP were, Prof Rajendra Math, Prof. A.S. Yaragal and Prof V. C. Sajjanar of Department of Electronics and Communications, BLDEA’s CET, Vijayapur.



GANITODDEEPINI – 2019

Ganitoddeepini - a carnival where Mathematical minds culminate, has been a mark of Mathematics department since 2010, in BLDEA Engg. college. Being the cordial blend of basic and applied Mathematics, it has instilled a numerical flair and a logical fervor in the growing buds of our college. The valuable guidance of HOD and staff of Mathematics department along with the organizational vigor of VI sem E & E students has reaped wonderful this year as well.

This year 111 students were shortlisted from among the 450 entrants. These students refreshed their basic mathematical skills (moolanveshane) to answer the verbal and non verbal questions and were made to think laterally in the event – Samayasaadhini. Basic Mathematical skills were tested in the event–Trikonbhumi. The students were asked to study about the life and works of great Mathematicians and the same were presented as seminar. An entertaining Quiz was also conducted. Final event of Ganitoddeepini- 2K19 and prize distribution function was

conducted on 20th March 2019. Dr.(Mrs) P. S. Nagathan welcomed the dignitaries, Dr. G. C. Sankad, HOD, summarized the event. Chief guests Mrs. Shweta Kulakarni and Mrs. Vibha Hittinahalli were the alumnis of our college who induced this program in the year 2010. They motivated the students with their talk on IT-opportunities and developments. Dr. S. C. Desai, coordinator of Ganitoddeepini - 2019 proposed the vote of thanks. The Quiz toppers along with toppers of the Ganitoddeepini-2K19 event were honoured.



Women's Day

It has never been easy for women to juggle a thriving career and a happy family life. It still isn't because being a full-time working mom comes with bouts of stress and guilt for not being able to give equal time to work and family. This being said, it's 21st century and women from all walks of life are choosing to have it all — a blissful family, a rewarding career and some solitude to find some time for themselves. Balancing the career and home often becomes a struggle for the working women. Keeping this in mind the International Women's day was celebrated in BLDEA's V.P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur on the theme “Balance

For Better”. Women are the epitome of peace, love, kindness, patience and wisdom. Their motto of life is to feel happy and make others happy so that the society and nation can progress without worries.

To spread wisdom and knowledge we had two wonderful sessions where two guests delivered lectures. First lecture was on “How to balance your job and home-10 important tips” delivered by Dr. Shweta Pawar, who is a professional Psychologist. The second talk was on “Nutritious diet- key to success” delivered by Dr. Kashibai Khyadgi, Head of the Department of Food and Nutrition, Agricultural University, Vijayapur. The brain storming sessions were followed by music, dance, skit and random ramp

walks performed by faculty members and final year students.

On this occasion we have also honored all the lady workers who help us to keep our campus clean. They were overwhelmed with joy and gratitude as they heard about "naari diwas" first time in their life. It was a great feeling to include the women from the underprivileged class, enlightening them about the nutritious food and inspiring them to train their daughters to join the mainstream of the society.

Dr. G.V. Patil, HoD, Mechanical Engineering was the coordinator of the program and Smt. Vinuta Kolurgi and Smt. Shilpa Patil of Electrical and Electronics Department were the organizing secretaries.



Watering the plants

NSS UNIT

The “Watering The Plants” program was organized on 4th of March at Government ITI college, Solapur road, Vijayapur by NSS Unit. In this event Vice Principal Dr. P. V. Malaji, Alumni Coordinator Dr. B. M. Angadi, Dr. Murgesh Pattanashetti and Sri Ashok Banni and a large

VOTERS AWARENESS PROGRAM

NSS Unit of the Institute in association with District Sweep Committee organized Voters awareness program on 27th March 2019. The main purpose of this programme was to create awareness among the people regarding voting and its rights. Students and Faculty participated in large numbers.



INVICTUS 2019

A National Level Technical Fest “INVICTUS-2019”, was successfully conducted by BLDEA’s Vachana Pitamaha Dr. P.G. Halakatti College of Engineering and Technology, Vijayapur on 29th to 30th March-2019. More than 1000 students participated in the events from various institutes from Karnataka and neighbouring states. Total 39-events were conducted to showcase the students skills in engineering innovations, art, literature, modeling and quiz. The inaugural function was held on 29th March-2019. Dr. R. Sunandamma, Registrar, Karnataka State Akkamahadevi Women’s University, Vijayapur inaugurated the function and addressed the gathering and

highlighted the importance of role of engineers in preserving environment. Shri Devendra R. Halawar, Sr. General Manager, Reliance Industries Ltd, Mumbai, Alumni of our College graced the function as Guest of Honour and shared his experiences with the students. The function was presided by our principal, Dr. V.P. Huggi. Prize money of more than Rs-1.00 lakh was distributed to the winners. Art exhibitions- Krishi Vihar, Inscribe to Describe and Chitrotsava were the highlights of the tech-fest wherein students of our institute showcased their talents. The entire event INVICTUS-2019 was successfully organised under the guidance of Convener and Principal, Dr. V.P. Huggi, and organizing Secretary Prof(Smt) Shridevi S. Angadi, HoD Civil

Engineering department. The most gorgeous part of the fest was KRUSHI VIHAR- a nitty gritty details of agriculture and farming. How farmers are important for our survival, women’s contribution in farming, the importance of vermicomposting, different kinds of farming, use of sprinklers, models prepared by students to protect farmlands and solar powered pesticides sprayers were displayed. Krushi Vihar was not only humongously enlightening but also make the visitors feel emotionally about the contribution of farmers if forgotten. An amazing exhibition by engineering students, unique of its kind and hence it grabbed attention of news agencies too.



Department of Chemistry organized a talent showcase "Inscribe to describe" which included microphotography, literature in form an wall magazine, paintings, pencil sketches, and a corner to honor all 40 brave hearts martyred at Pulwama. The exhibition was appreciated by the guest Sri. Halawar, alumnus and vice President of Reliance Industries. Dr. Sunandamma, Chief Guest of the function, Dr. Bhat and Mrs. Bhat, our illustrious alumni from Pune and many others visited this exhibition and appreciated the efforts of Engineering students to preserve Indian art and culture. Our students put their hard work for twenty days to organize this event. Technology does not hinder creativity. It all lies in a person's will to nurture pas-



Models of bridges were made by students of different colleges. 250 sticks and 100 gms glue were provided to them. Then loads were applied on those models to see which is the strongest of all. All were surprised to see that few bridges could took the load of more than 50 kgs and still lied strong. All civil engineering professors were up with excitement and were explaining about the construction tricks with students - real teaching to develop skills. A Thrilling experience all throughout the day.



Department of Physics along with The Communication and Commitment Club of our institution conducted the following events in the INVICTUS 2019.

SILVER SCREEN – was a documentary making competition. Documentaries can be funny, poignant, disturbing, ironic, absurd, inspirational, amusing, shocking or any combination. It is a genre of movie making that uses video & film scenes, photographs and/or sound of real people and real events which when edited together creates a particular story, viewpoint, message or experience.

BRAINSTORM—A quiz competition and **TREASURE HUNT**.

All the winners received the prizes from Prof. S.C. Sankad, HoD,Physics.



As a part of INVICTUS 2019, the Department of Electrical & Electronics organized “Electricutsav 2019” with the following events: Innovative idea Presentation, Circuitrix, Technical Quiz and Mock Placement.



Department of Electronics and Communication Engineering conducted four events - Paper Presentation, Logical Hunt, Coding-Debugging and EC Technoquiz under National Techfest, Invictus 2019. 120 students from various colleges participated. Department coordinators Prof. R. M. Hatti, Prof. A. H. Syed and Prof. B. P. Saukar successfully organized the events with collective efforts from all staff and students.



Department of Computer Applications (MCA) organized INVICTUS-2019 at department level. Two different events were conducted.

- Create De-Site : Mr.Lokesh Surusura was the staff coordinator of this event .
- Un-Minuto : Mr. S. B. Patil was the staff coordinator of this event.



MECHATRIX-2K19

Mechanical Engineering Department organized “Mechatrix-2K19”, an annual Inter College & Inter department level contest with multiple technical events, under MESA, a student chapter. The event was led and executed successfully under the guidance of Dr. G. V. Patil, HoD, Mech Engg, and Prof. P. S. Patil with the cooperation of all the faculty members. This year, Mechatrix - 2K19 received overwhelming response in all its events. The Event was a part of one of the various technical and social events organized under MESA every year since its inception in 2012. These events are organized every year with the objective to provide platform for the students to showcase their

talent with a competitive spirit. The motive of these events is to develop various skills of students in extra curricular activities and to expose them to the current trends in the technical and professional fields.

The event was successful enough to attract as many as 72 teams who registered for participation for the two days event. Mechatrix-2K19 included various events like: Paper presentation, poster presentation, model making, sketches and technical quiz.

The response from the students was overwhelming and it was heartening to see many female participants in Mechanical Engineering. Cash prizes and certificates were given to winners

and the participants were given certificates as a token of encouragement. The team of MESA feels proud to organize such a successful event and conveyed thanks to principal and management for their timely advice and co-operation for organizing such events. Prof. R. K. Kanakaraddi, Prof. S. A. Biradar, Prof. P. L. Putani, Prof. P. V. Goggle, Prof. V. V. Hokrani were the coordinators of various events. **Solid Modeling contest-** In this event students were asked to draw the sketches of mechanical components or the sketches in commercial software CAT-IA V-5.

Research and Development Cell Activities



Eight faculty members of our Institute have been awarded Ph.D. degree from VTU, Belagavi, during 18th VTU Convocation on 9th February, 2019.

Dr. Pratima Nagathan and Dr. M. Y. Dhange completed their Ph.D. from Institute's Mathematics Research Center, Dr. K. S. Chadchan from Chemistry Research Center and Dr. Pradeep Kowalli and Dr. Appasaheb D. Patil from Mechanical Research Center. Dr. Akash Mathapati (MBA), Dr. Anand Ghuli (MCA) and Dr. I. G. Bhavi (Mechanical Engineering) have completed Ph.D.

from other research centers affiliated to VTU, Belagavi. Three faculty members were awarded Ph.D. from IITs and JNTU. Dr. Ramesh Jeeragal, Dr. S. G. Patil and Dr. Basavraj Angadi obtained their Ph.D. degree from IIT Delhi, IIT Madras and JNTU Hyderabad respectively.

Two Patents are applied in this quarter.

- One patent is applied for **Living roofs - The future is alive**, Applicants: Mr. Mansur Ali, Prof. A. S. Tanksali.
- One patent is applied for **Sugarcane Plantation Equipment**, Applicant: Prof. S. S. Kulkarni

Research Grants received:

Total 55 lakh Rupees Research grants are received from KCTU, Bangalore and VGST, Karnataka. The Faculty members are Prof Naveen Desai of Civil Engineering Department has received 50 lakhs rupees grant from KCTU, Bangalore to establish a nano technology laboratory and Prof. Sunanda D. Biradar of Computer Science Engineering Department received Rs. 5 lakhs grant from VGST, Karnataka.

Glimpses of KrishiVihar-invictus 2019



