



**Painting by Miss. Nivedita Kabade**  
**V sem, Computer Science Engineering**



**BLDEA's**

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

**Editors:**

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

## EDITORIAL...

Immediately after the start of the academic year, “Fresher’s Day” is celebrated every year in our Institution. The very purpose of celebrating Fresher’s day is to welcome newcomers and their parents in a new but friendly atmosphere. It is the responsibility of all the faculty and senior students to acknowledge the

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### Cover page:

Miss. Nivedita Kabade

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newcomers about the practices of the Institution so that the parents and the students understand their role in the overall development of their career as well as the Institution. Our Institution focuses on making our students a good human being and also a successful professional through strategic teaching of both theoretical and practical aspects during the course of education. The Institution has adopted “Outcome Based Education” policy which needs the faculty to undergo a rigorous routine work. To remind the faculty about their responsibilities to deliver effective teaching in every class and also to recharge their enthusiasm we conduct Faculty Development programs in our college periodically. If it is vacation time, then conduction of seminars, workshops and FDPs become easier. This vacation we conducted two FDPs and post vacation we had a series of guest lectures on all advanced topics conducted in various departments. Also the time was to celebrate major events like Teacher’s day, Engineers day and Independence Day. A policy has been adopted by our Institution to make it the most Eco-friendly Institution of this area of North Karnataka. Hence our campus is declared a Plastic Free Zone and we have taken a pledge to save water during the Independence Day celebration function. Hope to reach our goal soon through various activities which will enhance to generate awareness among students and public at large. Our college doesn’t only focuses on education but it works in a 360 degree manner by developing personal qualities such as leadership, teamwork, determination, flexibility, confidence, self -belief, respect etc, in all to mould a versatile person in every student. To accomplish this goal we need cooperation from the parents. Hence, this quarter of the year has seen Parents-Teacher meet in various departments where all the parents were enlightened about their child’s performances in every front - whether it is study, sports or other extracurricular activities. It is our continuous effort to create a holistic learning environment so that our beloved Institution can make a mark in the educational map of India.



## ASEAN-INDIA RESEARCH TRAINING FELLOWSHIP

On behalf of DST, Govt. of India, Federation of Indian Chambers of Commerce and Industry (FICCI), is accorded for the award of ASEAN–India Research and Training Fellowship (AIRTF) under ASEAN-India Science and Technology Development fund of Govt. of India to **Dr. Zar Zar Linn, Myanmar Institute of Information Technology (MIIT), Myanmar** for a period of 6 months starting from 18th June–17th December 2019 under the guidance of **Dr. Pushpa B. Patil**, Professor and Head, Dept. of Computer Science and Engineering. **Research topic:** “Development of Natural Language Translation System from translating Myanmar to Kayah-Li Language.”



## AICTE—UKIERE TECHNICAL LEADERSHIP

Dr. Prema T. Akkasaligar, Professor, Dept. of Computer Science and Engineering has been selected for National Level AICTE – UKIERE Technical Leadership Development Programme for the year 2019-2020. It is a one year training programme jointly organized by DUDLEY College of Technology, UK and AICTE India, known as the UK India Education and Research Initiative . It organises three workshops across India. Dr. Prema has Aattended the first workshop from 30<sup>th</sup> July to 2<sup>nd</sup> August,2019 at AICTE HQ’s ,New Delhi.

## BOOK CHAPTERS PUBLISHED BY FACULTY MEMBERS

1. Akkasaligar Prema T., Biradar Sunanda, “Automatic Kidney Cysts Segmentation in Digital Ultrasound Images”. Chapter 4, In: Shukla A. (eds) **Medical Imaging Methods**. Springer Nature Singapore Ple. Ltd., pp.97-117, (ISBN 978-981-13-9121-7).
2. Akkasaligar Prema T., Biradar Sunanda,(2019), “Segmentation of Kidney Stones in Medical Ultrasound Images”. Chapter 18, In: Santosh K., Hegadi R. (eds) Recent Trends in Image Processing and Pattern Recognition. RTIP2R 2018. Communications in Computer and Information Science, vol 1036, part 2, Springer Nature Singapore Ple. Ltd. 2019, pp. 200-208, (ISBN 978-981-13-9181-1).
3. Akkasaligar Prema T., Biradar Sumangala. (2019) Medical Image Encryption with Integrity Using DNA and Chaotic Map. Chapter 13, In: Santosh K., Hegadi R. (eds) Recent Trends in Image Processing and Pattern Recognition. RTIP2R 2018. Communications in Computer and Information Science, vol 1036. part 2, Springer Nature Singapore Ple. Ltd. pp. 143-153,(ISBN 978-981-13-9181-1).

## INSTITUTE HAS SIGNED MOU WITH CADVISION R&D, KARTHIK INDUSTRIES AND KIRAN STONE CRUSHERS



A MOU was signed on 01-09-2019 between **Civil Engineering Department** & Karthik Industries and Kiran Stone Crushers for providing both academic and financial support by allowing final year students for internship and sponsoring Workshops / STTPs / FDPs for staff members/ students / consulting Engineers. Er. A. M. Goddodogi, Proprietor of the company was present during the agreement. The duration of this agreement will be for a period of 5 years.



**Dept. of Mechanical Engineering** has signed MOU with the CADVISION R&D for the benefit of students. **CADVISION R&D** is licensed Professional consulting engineering firm, which develops static or transient, linear or nonlinear finite element models to evaluate structural and thermal responses. The objective of this MOU is to collaborate through, industry based Student projects, R&D projects and Internship / Placement assistance for Final Year Students.



Mr. Rajesh Sandimani, 5th Semester student of Civil Engineering Department has represented India in International Cestoball Tournament held in Thailand and Srilanka during 18th to 24th September 2019.



Inauguration of Faculty Development Programme

## ONE WEEK FDP ON “PEDAGOGY FOR HIGHER EDUCATION”

One week Faculty Development Program on “**PEDAGOGY FOR HIGHER EDUCATION**” was organized by Dr. M. I. Sakri, HoD of Automobile Engineering Department during 22-26 July 2019. About 160 teaching staff members of the college participated in the program. The Faculty Development Programme was organized with the objectives of Designing curriculum based outcome based education, identification and adoption of pedagogical principles for achieving learning outcomes, selection and use of appropriate assessment tools for measuring the attainment of learning outcomes.

Pedagogy is often referred to as the activities of educating, or instructing or teaching, the activities that impart knowledge or skill. Higher education or third level (tertiary) education is an optional final stage of education that occurs after primary, secondary and post-secondary levels. Teaching and learning in higher education has gone through considerable changes since the time of the ancient and medieval universities. Later with the emergence of the concept and practices of a societal system, it evolved

into organized efforts made by specialized agencies of the society viz. schools, colleges and universities. Teaching has over several centuries of development transformed from a simple educational function into a complex profession. It is seen today as a very specialized function involving pedagogic principles and practices designed to provide unique service to meet the educational needs of the individual and of the society. Today's learning community expects a different way of teaching and also learning. Young faculty who have taken teaching as their career are not exposed to new pedagogical methods or unaware of pedagogical principles. Hence, one week faculty development program on the topic “Pedagogy for Higher Education” was conducted in our college from 22<sup>nd</sup> to 26<sup>th</sup> July, 2019 to provide an insight to a new system of education, various teaching-learning methods along with time management skills.

Dr. H.S. Guru Prasad from BMSCE, Bangalore inaugurated the FDP and delivered a delightful speech on Mentoring. Other Resource persons in this FDP were Dr. M. I. Sakri, Dr. G. V. Patil, Dr. P.V. Malaji and Prof R.G Talasdar.



*Demonstration of Total station and Drone*

### ONE WEEK FDP ON “ADVANCED SURVEY USING TOTAL STATION AND DRONE

A One week Faculty Development Programme (FDP) on “**Advanced Survey Using Total Station and Drone**”, sponsored under VTU TEQIP 1.3 was held at the Department of Civil Engineering from 27<sup>th</sup> to 31<sup>st</sup> July 2019. As the drone will soon dominate a lot of construction engineering projects because of its ingenuity, practicality, and affordability, this FDP was conducted to provide opportunities to faculty members, research scholars and UG students to enrich their teaching skill & knowledge in the field of advanced survey and their instruments. Drones will accelerate processes, facilitate quality inspections, assess problems and picture alternatives, they'll do this while reducing the labor burden and enabling a more efficient allocation of personnel. Dr. K. Anathanarayanan, Associate Prof in IIT, Chennai was the Chief Guest of the inaugural function.

Following distinguished academicians from IIT, Faculty from VTU Affiliated Colleges and Industry experts were the resource persons

Prof. Dasharat Kolur, Associate Prof in PDA Gulbarga,

Prof. Smt. S.S. Angadi, HOD, Civil Department, BLDEA's V.P. Dr. P.G.H.C.E.T Vijayapur

Prof. Shashikanth V. Kambli. Asst-Prof B.E.C., Bagalkot,

Mr. Kumarswamy Math, General Manager of Swastik Consultancy, Bagalkot,

Mr. Bharathkumar. B.V., GM of Seven Craft Groups Pvt. Ltd., Bengaluru,

Prof. Shashank Bagi, Asst. Prof in KLS G.I.T., Belagavi.

Mr. Neelasagar, Proprietor, Alpha Drone Survey, Bengaluru.

## WORKSHOP ON BASIC COMPUTER SKILLS



On the occasion of Teachers day, One day Workshop on “BASIC COMPUTER SKILLS (I T TRAINING)” was jointly organized by Departments of CSE, ISE, MCA and Center for Advanced Studies of B. L. D. E. A’s V. P. Dr. P. G. Halakatti College of Engineering & Technology, Vijayapur in association with Agastya International Foundation, Core Science Activity Centre, Vijayapur, on 6th September 2019. The objectives of the workshop was to Create awareness about IT technologies among the rural students and teachers, to expose Govt. school teachers to current technologies, Advertising College infrastructure (IT LABS) to Govt. school Teachers and Students.

## WORKSHOP ON RASPBERRY PI AND PYTHON



Department of E & C Engineering and TEROX RND conducted One day workshop on "Raspberry Pi and Python" on 2nd August 2019. About 96 students were actively participated in the workshop. Department of E&C has signed MoU with TEROX RND during the year 2019.

## INSTITUTE ORGANIZES PARENT-TEACHERS MEET



Parent Teacher Meet was organized by the Department of Electrical and Electronics Engineering on **25<sup>th</sup> September 2019**, the Department of Mechanical Engineering on **19<sup>th</sup> September, 2019** and Department of E&C on **21st of September 2019**. Parents of 2nd, 3rd and 4th year interacted with class teachers and mentors. Wards' performance in first CIE test was discussed. Also Parents were imparted information regarding various activities of the respective Departments and the Institution.

### STUDENTS PLACED IN TCS AND HEFTY SOFT PVT. LTD, BANGALORE

Tata Consultancy Services (TCS) conducted online test in different centers in Karnataka on 3<sup>rd</sup> & 4<sup>th</sup> August 2019. Around 80 students attended the online test and 14 (ISE-03, CSE-03, ECE-08) students cleared the test and qualified for interview round. 5 students- Hrishikesh Gokhale, Preetish Kaavi, Chetana Patil of E&C department and Charmi Oswal, Priyanka Dhoot of CSE department got placed in **Tata Consultancy Services (TCS)**. Five students- Mohammed Mujawar and Rishab of E & C department, Basavraj Murakambi, Kasugoud M Patil, Sameena Chattarki of CSE department were placed in **HEFTY Soft Pvt. Ltd., Bangalore**.



## INVITED LECTURES DELIVERED BY FACULTY

Dr. Swastika Das, Professor and HoD, Department of Chemistry was invited as a Chief Guest for the Inaugural function of Dalton Society of Chemistry Department of KCP Science College, Vijayapura on 21.8.2019. She addressed the young students who are pursuing graduation course in Science on the topic: **Best Practice of Human life: Waste management.**



Dr. Kailash S. Chadchan, Asst. Professor of Chemistry was invited as a resource person for one day work shop on “Poster Presentation” organized by IEEE students branch of BLDEA’s V. P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur on 10.8.2019. He briefed the students about the basics of different methods of paper presentation in conferences focusing on poster presentation.



### MOTIVATIONAL TALK FOR STUDENTS

Mr. Girish Kalagond, IRTS was felicitated by HOD of E&C Department Prof. S. R. Purohit on behalf of the department on 8th September for his achievement in recent UPSC examinations. Mr. Girish of 2012 batch secured 307 rank in UPSC April 2019. He delivered a Lecture on ‘UPSC CIVIL SERVICES EXAM AND CAREER GUIDANCE’ to final and pre final year students of E&C department. The lecture was coordinated by Prof. T. Y. Melligeri and Prof. A. Jamadar.



## TEACHERS DAY CELEBRATION ON 5TH SEPTEMBER 2019



Teacher's day in India is celebrated every year on 5<sup>th</sup> of September to honour the contributions of the teachers in our society and country. 5<sup>th</sup> of September is the birth anniversary of a great person named, Dr. Sarvapalli Radhakrishnan, well known scholar, diplomat, President of India and most importantly a Teacher. Once, when he became Indian President in 1962, some students requested him to allow them to celebrate his birthday on 5<sup>th</sup> of September. He said that, instead on celebrating 5<sup>th</sup> of September as his birthday personally, why not, it is celebrated as Teachers' Day. Since then 5<sup>th</sup> of September has been observed as Teachers' Day all over the India.

A teacher is a friend, philosopher, and guide who holds our hand, opens our mind, and touches our heart. The contribution of a teacher cannot be ignored at all. In many countries across the world, teacher's day is a special day where teachers of

schools, colleges, and universities are honored specially. Teachers are the real holder of knowledge, enlightenment and prosperity using which they nourish and prepare us for our life. They serve as source of lighting lamp in our lives. It is our teachers who stand behind our success. Without teachers no society and nation can walk in the path of progress. So one day celebration in the name of Teachers is well deserved to remind everyone about the role of teachers in our lives. In our Institution this day was celebrated in all the departments. Teachers were felicitated by students and there were fun games for teachers. Also Elocution competition on the topic of "An Ideal teacher" was conducted and organized by the Departments of Automobile Engineering and MCA. Miss Sayeda Irum Khadri of Civil Engineering Department secured first place in this elocution competition by presenting her thoughts on the topic "An Ideal Teacher".

## PLASTIC FREE ZONE AND SAVE WATER CAMPAIGN ON INDEPENDENCE DAY



The 72<sup>nd</sup> Independence Day was celebrated on 15<sup>th</sup> August, 2019. On this auspicious occasion all the faculty and students of this Institution has adopted a policy of not using plastic and making the college campus a Plastic Free Zone. Plastic can be incredibly useful in making durable items like contact lenses and electronics, but it is also used to make products used just once , then thrown away- like straws, take-out utensils, and plastic cups. Plastic does not biodegrade, it photo degrades into

smaller and smaller pieces and can remain in the environment indefinitely. Also taking a lesson from Chennai water crisis this summer all the students and faculty were urged not to waste water. Hence a Pledge taking ceremony was conducted after the celebration of Independence Day function. The Independence Day Function was graced by the Chief Guest Shri Mahant Gulaganji, Principal, VicePrincipals , Co ordinators of various programmes and all the faculty members and students.

## FRESHERS' DAY CELEBRATION ON 9TH AUGUST 2019

Newness or novelty has been intriguing and fascinating to man since the Neanderthal times. Novelty for us is exciting and exuberance, surprise and science, cheerfulness and joy, hope and happiness, positiveness and passion. Novelty to us also means risk, unfamiliarity, uncertainty, fear, doubt and disturbance. To clear all the fears of the young fresh hearts and minds of the newcomers of the college, a Freshers' Day is celebrated every year . The Freshers are welcomed to the new environment by the Principal, all faculty and the senior students. The new batch of students start their journey with us to fulfill their aspirations. No one forgets the first day of their college life and it should always be marked with full of happiness and activities so that they love this day to remember all through their life. This year our Freshers' Day was celebrated in the holy presence of Shri Sharana Dr. Ishwar Mantur of Basava Jayana Gurukula, Jamkhandi. The holy presence and the speech of Swamiji marked a beginning of the new academic year. A spiritual vibe spread across the campus as he spoke about the meaning of life and purpose of a life. Swamiji's speech was about the holistic development of a person to a good citizen of the country. The Guest of Honour of the function was Mr. Girish Kalagond who is an alumnus of our Institution and now joined Indian Revenue Service. Mr. Kalagond made all the senior students and the faculty to feel proud and at the same time inspired the freshers to fulfill their ambitions. The function was presided by the Principal Dr. V.P. Huggi. All the students, faculty and parents spent a good memorable time in the college campus.



## FIT INDIA MOVEMENT

NSS Unit of Institute made arrangement for viewing live telecast about "**Fit India Movement**" on 29<sup>th</sup> August 2019 at 10:15 am to 11:15 am addressed by Hon'ble Prime Minister of India. The nation-wide campaign aims to encourage people to inculcate physical activity and sports in their everyday live. VTU, Belagavi has issued a letter to inform the universities to prepare for the Fit India Movement. 55 students and 3 faculty members participated in the live telecast held in Library seminar hall and learnt the importance of staying fit in our day to day life.



## GUEST LECTURES ORGANISED



### GUEST LECTURE ORGANIZED BY THE DEPARTMENT OF MECHANICAL ENGINEERING ON 07.09.19

**Dr. Prasanna G Bhat, General Manager, Powertrain Engineering department, ARAI Pune** , addressed the students regarding the BS (Bharat Stage) norms which are based on EURO (European) emissions standards. The “India 2000” was rolled out in the year 2000, followed by BS-II and BS-III in 2001 and 2005 respectively. It wasn’t until BS-IV, that more stringent emissions mandates were enforced. In 2016, the government of India decided to skip BS-V altogether and implement BS-VI by the year 2020. BS-VI is a stricter, more restrictive norm that will give a jumpstart to India’s long battle with air pollution. With the implementation of the BSVI norms, India will come at par with the US and European equivalent emissions norms. Also explained about Future Mobility, or New Mobility, which is simply, what will happen to our transportation needs in the future. The new mobility eco-system “Future Mobility” will be influencing the traffic and transportation sector with offerings for fast, economic, sustainable, safe, efficient and customized comfortable travel. While electric vehicles and high speed rails will take over, hyper loop or gyroscopic vehicles are emerging as well. Future mobility will depend more on smart roads, drones, AI, sensors & data.

## GUEST LECTURES ORGANISED

### DEPARTMENT OF AUTOMOBILE ENGINEERING ORGANIZED THREE GUEST LECTURES:

- Dr. Prasanna G Bhat, General Manager, Power train Engineering department, ARAI-Pune delivered a lecture on the topic: “BS-IV to BS-VI Changes & Challenges and Future Mobility” on 7<sup>th</sup> September, 2019. The staff and students of Automobile and Mechanical Engineering departments attended the program.
- A guest lecture was organized on 3<sup>rd</sup> September, 2019 on the topic: “Body in white (BIW), Autonomous vehicles (Future mobility), Connected vehicles and Automobile Product Life Cycle”. The invited speaker was Mr. Santosh Hiremath, Sr.Technical Lead, TATA Technologies Limited, Pune.
- A guest lecture was delivered on the topic “Engine Management System and Industry Readiness” by Shri. Kirankumar Hittalmani, Group Manager, BOSCH India Ltd. Bangalore on 3<sup>rd</sup> September, 2019.

### GUEST LECTURES ORGANIZED BY OTHER DEPARTMENTS

- A Guest Lecture was Organized by Department of Electrical And Electronics Engineering on the topic “ How to face Quantitative exam” for final year students on 18<sup>th</sup> september 2019 by Mr Pra-deep Hunoor, Asistant Engineer KPTCL
- Dr. Sanjeev Patil, Associate Dean & Director, School of Construction Mumbai delivered a talk on Career Opportunities in Built Environment on 20<sup>th</sup> September 2019 for the students and Faculty of Civil Engineering Department.
- The Department of Civil engineering organized a training program for 5<sup>th</sup> & 7<sup>th</sup> semester students on “*Practical applications of Concrete Technology*” on 19<sup>th</sup> & 20<sup>th</sup> Sept 2019. Mr. Vasudev Murty was the resource person.
- The Departments of Information Science & Engineering organized a Guest Lecture on “.Net environment in IT” on 6<sup>th</sup> sept 2019. The guest speaker was Mr.Achyut Thobbi, Trainee Engineer, Wipro Bangalore. The resource person discussed with students about the importance of .Net in IT industry and its usage in various application developments.
- Two guest lectures were organized on the topic Current and Future trends in automobile engineering by Mechanical Engineering department. Shri Santosh Hiremath, Senior technical lead, Tata Technologies, Pune addressed the students regarding the current trends in automobile engineering. The other resource person Kiran Hittalmani, Group Manager, BOSCH, Bangalore spoke about Future Mobility, or New Mobility, which is simply about the future transportation needs. He also explained the role of artificial intelligence and related software’s on transportation system and enlightened the audience that how AI helps in predicating future data.
- Ms. Ashiwini Koujalagi Alumna of Department of Computer Science and Engineering(2013 batch passed out) working as a Senior Associate Technology Level-1, Sapient, Bangalore, has inspired students of 3<sup>rd</sup> & 5<sup>th</sup> semester by delivering a lecture on "Job opportunities in the IT field".

## RESEARCH ARTICLES PUBLISHED IN SCOPUS INDEXED JOURNALS IN 2019

Sl. No	Document Title	Authors	Journal Title
1.	Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine	Shetti N.P., Malode S.J., Nayak D.S., Bagihalli G.B., Kalanur S.S., <b>Malladi R.S.</b> , Reddy C.V., Aminabhavi T.M., Reddy K.R.	Applied Surface Science
2.	Simultaneous Chemical Reactions Effect on Dispersion of a Solute in Peristaltic Propulsion of a Newtonian Fluid in an Inclined Channel with Wall Properties	<b>Dhange M.Y., Sankad G.C.</b>	International Journal of Applied Mechanics and Engineering
3	Electrochemical detection and degradation of textile dye Congo red at graphene oxide modified electrode	Shetti N.P., Malode S.J., <b>Malladi R.S.</b> , Nargund S.L., Shukla S.S., Aminabhavi T.M.	Microchemical Journal
4	Vibration control of electronic equipment in a dynamic environment using spacers	<b>Sakri M.I., Adimurthy M.</b>	International Journal of Recent Technology and Engineering
5	Fingerprint-Based Document Image Retrieval	<b>Dixit U.D., Shirdhonkar M.S.</b>	International Journal of Image and Graphics
6	Robust Invisible Digital Image Watermarking Using Hybrid Scheme	<b>Savakar D.G., Ghuli A.</b>	Arabian Journal for Science and Engineering
7	Resource Allocation for Fog Enhanced Vehicular Services	Sutagundar A.V., Attar A.H., <b>Hatti D.I.</b>	Wireless Personal Communications
8	A hybrid batâ€“dragonfly algorithm for optimizing power flow control in a grid-connected windâ€“solar system	<b>Gonal V., Sheshadri G.S.</b>	Wind Engineering
9	Poly-nile blue based electrochemical sensor for catechol and hydroquinone	<b>Teradale A.B.</b> , Lamani S.D., Ganesh P.S., Swamy B.E.K., <b>Das S.N.</b>	Analytical and Bioanalytical Electrochemistry
10	Analysis of Segmentation and Identification of Square-Hexa-Round-Holed Nuts Using Sobel and Canny Edge Detector	<b>Savakar D.G., Hosur R,</b> Pawar D.	Communications in Computer and Information Science
11	Semantic Memory Learning in Image Retrieval Using k Means Approach	<b>Patil P.B.</b> , Kokare M.B.	Communications in Computer and Information Science
12	Preprocessing and Segmentation of Retina Images for Blood Vessel Extraction	<b>Jadhav A.S., Patil P.B.</b>	Communications in Computer and Information Science
13	Optimization of welding parameters for MIG welding of Al 6061-T6 using Taguchi technique	<b>Kulkarni S.S., Ganjigatti J.P.</b>	International Journal of Mechanical and Production Engineering Research and Development
14	Research contribution of bibliometric studies as reflected in web of science from 2013 to 2017	Hugar J.G., <b>Bachlapur M.M.</b> , Anandhalli G.	Library Philosophy and Practice
15	Optimized node swapping for efficient energy usage in heterogeneous network	<b>Padaganur S.K., Mallapur J.D.</b>	Advances in Intelligent Systems and Computing
16	Role of silica fume in producing high strength self-compacting concrete	<b>Lokhande R., Dindawar K.</b>	Lecture Notes in Civil Engineering
17	Experimental and finite element analysis of 80 MPa two-span high-performance concrete beam under flexure	<b>Momin A.A., Khadiranaikar R.B.</b>	Lecture Notes in Civil Engineering
18	Experimental Investigation of High-Strength Self-Compacting Fibre-Reinforced Concrete	<b>Zende A., Khadiranaikar R.B.</b>	Lecture Notes in Civil Engineering
19	Primary concept of nickel toxicity - An overview	Das K.K., Reddy R.C., Bagoji I.B., <b>Das S.</b> , Bagali S., Mullur L., Khodnapur J.P., Biradar M.S.	Journal of Basic and Clinical Physiology and Pharmacology
20	IoT Based low-cost weather station and monitoring system for precision agriculture in India	<b>Math R.K.M., Dharwadkar NV</b>	Proceedings of the International Conference on I-SMAC (IoT in Social, Mobile, Analytics and

## PH.D. AWARDEES OF THE INSTITUTE

	Name of Faculty	Department	Institute / University
	Dr. Asif Momin	Dept. of Civil Engineering	VTU, Belagavi
	Dr. C. R. Hiremath	Dept. of Mechanical Engineering	NITK, Suratkal
	Dr. M. U. Nagaral	Dept. of Computer Science and Engineering	VTU, Belagavi
	Dr. S. K. Padaganur	Dept. of Electronics and Communications Engineering	VTU, Belagavi
	Dr. Smt. Mukta Bannur	Dept. of Electronics and Communications Engineering	VTU, Belagavi
	Dr. Basavraj Hosamani	Dept. of Automobile Engineering	VTU, Belagavi



**THREE RESEARCH PROPOSALS UNDER VARIOUS SCHEMES HAVE BEEN SELECTED BY VGST, GOVT. OF KARNATAKA FOR THE YEAR 2018-19.**

Sl. No	Name of Programme coordinator	Title of project	Scheme and amount sanctioned	
1.	Dr. Swastika N. Das Professor and Head, Department of Chemistry	Electrochemical Analysis of Biologically active compounds by using Assimilated sensor Electrodes	K-FIST L1 Rs.20,00,000/-	
2	Dr. Pradeep V. Malaji Asso. Professor, Department of Mechanical Engineering	Vibration Energy Harvesting and IOT Lab	K-FIST L2 Rs.40,00,000/-	
3.	Prof. Sumangala Biradar Asst. Professor, Department of Info. Science and Engineering	Secured-health system using DNA Cryptography	RGS/F Rs.5,00,000/-	

**Total grant amount sanctioned by VGST, Govt. of Karnataka under different schemes during 2018-19 is Rs. 65,00,000/-**

## INTERNSHIP PROGRAM ON “CAE CONCEPTS - INDUSTRIAL APPROACH



Internship training is one of the requirements to be fulfilled in order to obtain a Bachelor's degree in technology for 6<sup>th</sup> Semester students. Each student needs to do training for 4 weeks in a recognized company of their respective domain to understand the industrial requirements. A well planned, properly executed and evaluated software training helps a lot in developing a professional attitude. Also it develops an understanding of taking software approach to problem solving. Besides software training, it builds self-confidence among students and let students know the technical knowledge and professionalism. The internship program on “**CAE Concepts-INDUSTRIAL APPROACH**”, in collaboration with **CADVISION R&D Pvt Ltd** Bangalore was organized for the students of six semesters of Mechanical Engineering for a period of one month from **05/07/2019 to 02/08/2019**. Various efforts and processes involved in designing of components were studied and understood during the training. During the internship program basic concepts of HYPER MESH as Preprocessor & Postprocessor and NAS-TRAN as processor were taught in detail to the students. The Internship Program was coordinated by Prof. P. S. Patil.



Karnataka Innovation and Technology society, Department of IT-BT, Startup, Karnataka organised BOOT CAMP in our institution on 09th September 2019. More than 100 students participated in this programme.



Department of MCA and Automobile Engineering organized Engineer's Day on 21-09-2019. The Chief Guest of the function was Shri. P. N. Kulkarni, Chief Engineer, KBJNL, Almatti Circle, Almatti. He recalled the construction of Almatti Dam since the beginning and its present role in managing the water supply in entire North Karnataka region. Shri. Kulkarni also discussed the security aspects of the dam which is highly significant and hence 90 homes for security personnel are constructed around the dam. He also acknowledged the dedicated work of the employees of KBJNL in managing the recent flood occurred in August 2019. Overall the role of Engineers and Technicians in managing the Almatti dam and its water sources were discussed with students and faculty members of the institution. An elocution competition was held on the topic "An Ideal Engineer". Miss. Sayeda Afsana Patel of CSE Department secured the first place and Miss. Amruta Patil Secured Second place in the competition.

## TREE PLANTATION BY NSS UNIT

Importance of tree plantation has been stressed upon time and again. The need for tree plantation has become even greater these days because of the growing pollution in the environment. Tree plantation involves transplanting tree seedlings to grow forests and spread greenery around. There are a number of reasons why the process of tree plantation is important for the environment.

National Service Scheme (NSS) Unit of BLDEA's V. P. Dr. P.G.H. college of Engineering and Technology organized TREE PLANTATION event on 21<sup>st</sup> September 2019 at Government primary school number 43, Anand Nagar, Vijayapur. In this event NSS volunteers planted 20 saplings. Faculty members and NSS Volunteers actively participated in this event and completed it successfully. A group of students conducted personality development program and fun activities to school children. Other group of students took this opportunity to clean the school ground. Student coordinators were Aishwarya Hugar, Akash Pawar. And the lead was taken by Shri Sahebgouda Patil, Institute NSS Coordinator. The Head master of the school and supporting staff fully cooperated the NSS team.



**INSTITUTE NSS VOLUNTEERS WITH CHILDREN OF GOVERNMENT  
PRIMARY SCHOOL NUMBER 43**