



# UBDTCE NEWS LETTER



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## From the Desk of the Principal



**Dr. D. P. NAGARAJAPPA**

**Principal**

**UBDTCE, Davanagere**

It is a matter of immense pleasure to place in your hands the Newsletter of the college "UBDTCE NEWS LETTER". The Newsletter highlights the achievements and activities of the college in different spheres. Quality assurance happens to be a continuous process and pursuit of high quality is the hallmark of progressive educational institutions. I am proud of the fact that faculties in various departments have published many publications in esteemed national/international reputed journals. The teachers of the 21st century should have the ability to ensure cognitive, conative and effective development of the students, and create in them a value system which is a mixture of time tested value and scientific temper. In accordance with the lofty vision and mission of the college the faculty and the students are doing their very best to reach high standards of quality education. The college has been a forerunner in incorporating the latest trends and technologies-efforts which have won acclaim in academic circles. The opening up of skill development center with the state of art technologies- highly sophisticated, most modern laboratories equipped with high end machines are one such example. I am fully confident that the college will march ahead and add more achievements to its name with all round involvement of the Almamator of the institute namely VTU, Belagavi. The publications of the Newsletter of the college would be long way in highlighting its multifarious activities and achievements. This institute is serving for Economically weaker section of the society and also students from village background. I would like to send my best wishes to the staff and students for showing commendable performance and give good account of themselves in worthwhile endeavours.

## From the desk of the Editor-In-Chief

**Dr. Kumara Ganapathi Adi**

**Professor, E & I E Department**

**UBDTCE, Davanagere**



*"The only true wisdom is in knowing you know nothing"*

**Socrates.**

It's often when mere few changes can make a massive difference to a community like the ones wrought by those whose mind do not rest, those whose thrust to knowledge is never quenched. And its contribution of such minds that makes the Socrates quote above so apt.

And on this note we the Editorial Board present you with the 3rd issue of (Jan-June) 2023 "**UBDTCE NEWS LETTER**", a bi-annual college Newsletter.

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### FOOD FOR THOUGHTS

"The beautiful thing about learning is that no one can take it away from you." —B.B. King

"Education is the most powerful weapon you can use to change the world." —B.B. King

"A person who never made a mistake never tried anything new." —Albert Einstein

"I think it's possible for ordinary people to choose to be extraordinary." —Elon Musk

"Success is the sum of small efforts, repeated."  
—R. Collier

"The future belongs to those who believe in the beauty of their dreams." —Eleanor Roosevelt

"Today a reader. Tomorrow a leader." —  
Anonymous

### FOOD FOR THOUGHTS

"Kindness is one thing you can't give away. It always comes back." — George Skolsky

"Happiness is not by chance but by choice." —  
Jim Rohn

"Positive anything is better than negative nothing." — Elbert Hubbard

"Be yourself and people will like you." —Jeff  
Kinney

"Every accomplishment starts with the decision to try." —Gail Devers

"To be an overachiever you have to be an over-believer." —Dabo Swinney

"The expert in anything was once a beginner."  
—Helen Hayes

Student Induction Programme has been conducted in two phases. First phase has been conducted from 1<sup>st</sup> to 10<sup>th</sup> December 2022 and 2<sup>nd</sup> phase conducted from 6<sup>th</sup> to 10<sup>th</sup> June 2023. First phase induction program inaugurated by **Guest of honour, Dr. S Vidyashankar**, Hon'ble Vice Chancellor, VTU, Belagavi, chief guests **Smt. Rajeshwari N Hegde**, Hon'ble Principal District & Sessions Judge, Davanagere and **Sri. B C Shivakumar**, B S Channabasappa & sons, Davanagere. Programme presided by **Dr. Shivaprasad B Dandagi**, Principal, UBDTCE. Second phase Induction Program inaugurated by **Dr. D P Nagarajappa**, Principal, UBDTCE. Programs coordinated by **Dr. Prabha K** Professor Physics Department and First year B.E coordinator.

**Thirty speakers were invited from different domains.** They addressed the students about the importance of engineering education, knowledge, skills and competence required in the present scenario. Induction Programme has also covered various AICTE activities to be carried out as per the norms. Many resource persons including faculty members of the college are invited from different disciplines to deliver lecture on various topics to enhance/improve the personality of students. Resource persons have given very informative speech on different areas/topics which has benefitted a lot to the students. Sessions were very much interactive and cleared the students' doubts. Students were informed about the present technology and how students can become update their knowledge and skills required to get the job or to become self-employee or industrialist. Students are satisfied with the different talks and expressed good feedback about the resource persons. At the end of the program students submitted Induction Programme report to the concerned mentors. Certificates are issued for Speakers, Faculty coordinators and student coordinators.

**Dr. Prabha K**, first year BE Coordinator, Professor, Physics Department, coordinated the induction program.



First phase induction program inaugurated by Guest of honour,  
**Dr. S Vidyashankar**, Hon'ble Vice Chancellor, VTU, Belagavi

### VISION

To create high quality Civil Engineers by imparting knowledge and excellence in Civil Engineering and Technology with global perspectives and inculcate professionalism and work ethics in them for building a strong nation

### MISSION

- ✦ To nurture Civil Engineers with competent technical skills, professional and ethical values for serving the society at global level.
- ✦ To transform the department into a centre of excellence in the field of Civil Engineering along with other allied research areas.
- ✦ To provide knowledge based consultancy services in all the fields of Civil Engineering and to inculcate innovation and design thinking for serving eco-friendly, sustainable and durable infrastructural construction practices to face future competitiveness.

### EVENTS ORGANIZED BY FORUM

- The **forum** of Dept. of Studies in Civil Engineering aims at promoting extra and co-curricular activities among the students of Civil Engineering. The inauguration of the forum was held on 8th Jan., 2023. The DOS in Civil Engineering has conducted a valedictory function for 6th semester civil engineering students for the completion of survey camp on 6th April, 2023.
- The department organized an event of “**Dr. B. R. Ambedkar** Birthday celebration” on 14th April, 2023.
- We the civil engineering department have a **valedictory function** for the students of 2019-23 batch on 1st June, 2023. Around 20 students interacted with the teachers and juniors of the department.
- On 7th June 2023, Department of civil engineering organised “**WORLD ENVIRONMENTAL DAY**” in our college, all the deans, chairman’s, HOD’S, coordinators were cordially invited for the function.

### PH.D. AWARDED IN DOS- CIVIL ENGINEERING

- ✓ Dr. Hanumesh. B.M was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 5th April, 2022. He did research under the guidance of **Prof. H. R Prabhakar** and **Prof. N. Venkataramana**, on the topic titled “Behaviour of hybrid reinforced two way slabs”.

- ✓ Dr. Harish.B.A was awarded ph.d degree by Visvesvaraya Technological University, Belagavi. On 1st August, 2022. He did research under the guidance of **Dr. N. venkataramana** and Dr.K.Ganeswara. His topic was “ Performance of recycle aggregate concrete two way slabs with different fibres under punching shear”.
- ✓ Dr. Suraj Kalgonda Patil was awarded ph.d degree by Visvesvaraya Technological University, Belagavi on 22nd June, 2023. He did research under the guidance of **Dr. Tejaswini N Bhagawat**, on the topic titled “ Evaluation of synthetic unit hydrograph methods for design storms in Warana Basin”.

### AWARDS AND RECOGNITIONS

- ❖ **Dr. K. Manjunatha** has been elected as managing committee member for Association Consulting Civil Engineers(India), Davangere centre for the period, 2023-2025.
- ❖ **Dr. C. M. Ravi Kumar** has been nominated as managing committee member for Indian Concrete Institute, Davangere centre for the period, 2023-2025.
- ❖ **Dr. C. M. Ravi Kumar** handed over the charge as Chairman, Association Consulting Civil Engineers(India), Davangere centre to Er. K.A. Venkataramana Reddy, who is our proud alumnus of this institute ( Dr. S. Basavarajappa’s Batchmate) for the period, 2023-2025.

### PUBLICATIONS

1. Prabha. U. , **Eramma H.** ,Surendran.M. “Modelling Of Crack Growth in Composite Joints”, Vol.4, Issue 8, Pp. 1530-1545, IJAEM,2022.
2. Kibriya Banu.M.R and **Eramma H.**“ Siesmic Performance of High Rise Building with Different Structural System” Vol. 4 Issue-10, Pp. 01-15, IJAEM, 2022
3. Maheshkumar.C.L., Shanthappa.B.C. and **Manjunatha K.** “A Study on Seismic Behaviour of Hyperbolic Cooling Tower With ‘V’and ‘X’ Columns” Edited by Kolathayar, S.tawhidul Islam. S.MukhopadhyayA., AhmedI.,Proceedings of the 2nd International Symposium on Disaster Resilience and sustainable development, Lecture notes in Civil Engineering Springer, Singapore, 2022.
4. Ramesh.B.M, **Manjunatha K.** and **Ravi Kumar C. M.** “ Seismic Fragility Estimates of Regular and Irregular Structures with Different Soil

- Conditions using Time History Analysis”, Vol 16 , No.3, Pp. 24-56, IUP Journal of Structural Engineering, 2023.
5. **Manjunatha K** and Ramesh. B.M. “ Seismic Soil-Pile-Structure Interaction of Vertical Irregular Buildings with Diagonal Structure” Vol.9, Issue-2, Journal of Civil and Construction Engineering, 2023.
  6. Ashwini L. K., Pavan P, Keshava Murthy M and **Ravi Kumar C. M.** “Performance Evaluation of Reinforced Concrete Structure considering Uncertainty in Loading Pattern”, Vol. 11, No. 3, Pp.10-19, i-Manager’s Journal on Structural Engineering, 2022 .
  7. **Pruthvi Raj S R** and **Ravi Kumar C. M.**, “Analysis and Design of Statically Indeterminate Beam by Determining FBM and FSF through Slope Deflection Method (SDM), Moment Distribution Method (MDM), and Kani's Method - A Comparative Study”, Journal of Recent Activities in Infrastructure Science, Vol.07. Issue01, pp.19-33, 2022.
  8. **Pruthvi Raj S R**, Raghavendra R and **Ravi Kumar C. M.**, and Krishnamurthy K A, “Incorporation of Abacus Software to Analyze the Internal and External Properties of Statically Indeterminate Beam” Journal of Structural Technology, Vol7, Issue 02, Pp.44-56, 2022.
  9. **Pruthvi Raj S R**, Maruthi T, Yajnodbhavi H M and **Ravi Kumar C. M.**, “Effective Utilization of Waste By- Products into fibre Reinforced M30 Grade of Concrete in Road Pavement”, Journal of Ceramics and Concrete Sciences, Vol.7, Issue 02, Pp.01-18, 2022.
  10. Madan Kumar L, **Ravi Kumar C M** and **Pruthviraj S R**, “ Repair and Restoration of the Historical Wellesley Bridge at Srirangapatna- A Case Study”, Vol.4, No.1, Pp.28-39, Article ID: 4543, 2022.
  11. Beeresh C M and **Rashma Shetty**. “Application of Response Surface Methodology for Adsorption of Cr(VI) on Zinc Oxide Nanoparticle”, Vol. 4, Issue-LIV, Pp.304-309, Journal of Indian Water Works Association, 2022.
  12. Lavanya R. and **Rashma Shetty**. “Application of Response of Surface Methodology for the Treatment of Dairy Waste Water by Electro-Fenton Process” Vol. 42, No.12, Pp. 1511-1518, Indian journal of Environmental Protection, 2022 .

## CONFERENCES

- 1) **Pruthvi Raj S R**, Maruthi T, Yajnodbhavi H M and Ravi Kumar C M, “Experimental Studies on Fiber Reinforced High Strength M80-Grade Concrete”, International Conference on Emerging Innovations (ICEI- 2022), held at JIT, Davangere on 03/06/2022.
- 2) Krishnamurthy. K A, **Pruthvi Raj S R**, Maruthi T, “Seismic Vibration Control of High Rise Building With Shear Wall Using ETABS”. International Journal of Engineering Research & Technology, International Conference on Emerging Innovations (ICEI-2022), held at JIT, Davangere on 03/06/2022.
- 3) Madan Kumar L and **Ravi Kumar C.M** and **Pruthviraj S.R.**, “ Expanded Polystyrene as Fine Aggregate in Concrete Paver Blocks- An Experimental Study, International Conference on Emerging Trends in Engineering, Management and Technology (ICTEMT-2022), held at Rajajeswari College of Engineering, Bengaluru.

## WORKSHOPS

- 1) The Department of studies in Civil Engineering jointly organised a workshop in association with Davanagere smart city Limited, Davanagere on “**Urban Climate Change and Sustainability**” for one day on 25th february, 2022. **Dr. K. Manjunatha** was the coordinator for the workshop.
- 2) The Department of studies in civil engineering jointly organised a workshop in association with Davanagere smart city Limited, Davanagere for the departmental engineers on “Low Carbon Energy Buildings” for one day on 1st July, 2022 Dr. K. Manjunatha, Dr. H.Eramma and Dr. Rashma Shetty were the participants. Dr. C. M. Ravi Kumar and Prof. Madhukaran were the Workshop coordinators.
- 3) **Dr. K. Manjunatha**, Professor in Civil Engineering has attended a workshop jointly organised by The Department of Civil Engineering, NIE, Mysuru and Indian Geotechnical society, Bangalore titled National seminar on “**Geo-Technics For Infrastructure Development**”; GID-2022 for one day on 5<sup>th</sup> September 2022.
- 4) **Dr. K. Manjunatha** and **Dr. C.M. Ravi Kumar** were attended the workshop organised by Association of Consulting Civil Engineers (I), Mysore centre sponsored, National Seminar held



at MBCT Auditorium, Mysuru titled **“Recent Advances In Civil Engineering on Innovative Infra in Civil Engineering”** RACE-23 for two days on 3<sup>rd</sup> and 4<sup>th</sup> February 2023.

- 5) **Dr. K. Manjunatha**, Professor in Civil Engineering has attended a workshop jointly organised by National jute Board (NJB), Ministry of textiles-GOU and NITK, Surathkal held at Indian institute of science, Bangalore titled **“Jute Geotextiles As Sustainable Solution in Civil Engineering Applications including Rural Infrastructure Development (JGTSS)”** for one day on 18<sup>th</sup> may 2023.

**WORK HARD. THINK BIG. LISTEN WELL.**

## DEPARTMENT OF STUDIES IN MECHANICAL ENGINEERING

### VISION

Providing quality technical education and moral values to meet the societal needs

### MISSION

- 1) Providing quality engineering education through teaching and training.
- 2) Learning through internship, research and project work.
- 3) Encourage participation in co-curricular and extra-curricular activities.

### WORKSHOP CONDUCTED IN THE DEPARTMENT

Mechanical Department Organised Two days Entrepreneurship Development Programme on **‘Importance of Entrepreneurial Mindset Among Students’** in DOS in Mechanical Engineering on 02-03, May 2023, held at UBDTCE, Davanagere, Sponsored in Memory of Sri S Dakshinamurthy proud Alumni (1960 pass out) by his family members. **Dr S B Mallur** was Coordinator and **Dr Irappa Sogalad, Dr R P Swamy, Dr Vijay Kumar Dr C G Sreenivasa** were **Co-Coordinators** for this Entrepreneurship Development Programme.

### INDUSTRIAL VISIT

Mechanical Engineering 4<sup>th</sup> Semester B.E students along with Faculty members **Dr. S B Mallur, Dr. Irappa Sogalad** and Technical Staff Sri. **G A Kuber**, Foreman and **Sri Govindappa D N**, Instructor, visited **K K Foundries, Harihar** on 26-08-2022 as a part of curriculum.

### EXPERT LECTURES OR INVITED LECTURES /TALKS:

- 1) **Dr. K. Manjunatha**, Professor, was invited as a expert lecture for the technical talk titled **“Geotechnical Requirements for Civil Engineering Projects and Foundation Engineering”** on 7<sup>th</sup> September 2022 during internship training programme 2022 in association with FPACE and ACCE(I)- Davanagere centre. This expert lecture he has delivered for the final year civil engineering students.
- 1) **Dr. K. Manjunatha**, Professor, was invited as a expert lecture for the talk titled **“Importance of Deep Foundations for Civil Engineering Structures”** on 20<sup>th</sup> October 2022 at JNN College of Engineering, Shivamogga. This expert lecture he has delivered for the civil engineering students.



Industrial Visit by Fourth Semester Students

CONFERENCE, SYMPOSIA, SEMINARS, WORKSHOPS,  
INVITED LECTURES ETC. ATTENDED BY TEACHERS

- **Dr S B Mallur**, has given invited talk on “Importance of Entrepreneurial Mindset Among Students”, Entrepreneurship for Engineers(EDP), UBDTCE, Davanagere, Karnataka, on May 2, 2023 and on “Quality Characteristics of Entrepreneur” 2nd Phase Student Induction Program for 1st year BE Students for the academic year 2022-2023, UBDTCE, Davanagere, Karnataka, on June 09, 2023.
- **Dr C G Sreenivasa** has given invited talk on “Importance of Entrepreneurial Mindset Among Students”, Entrepreneurship for Engineers(EDP), UBDTCE, Davanagere, Karnataka, on May 3, 2023 and on “Entrepreneurship” 2nd Phase Student Induction Program for 1st year BE Students for the academic year 2022-2023, UBDTCE, Davanagere, Karnataka, on June 09, 2023.
- **Dr K Mohamed Kaleemulla and Dr K G Satish** have attended online one week Faculty Development Programme on “Innovative and emerging thrust areas of civil, electrical and mechanical engineering conducted by Sandip Foundations, Sriram Polytechnic, Madhubani, Bihar, held on 3-8<sup>th</sup> April 2023.
- **Dr K Mohamed Kaleemulla and Dr K G Satish** have attended Faculty Development Programme on “Open Source Software and Tools for Modern Teaching”, conducted by Government Engineering College, Haveri supported by Vision Group of Science and Technology, held on 18-21<sup>st</sup> 2022.

RESEARCH PAPERS PUBLISHED BY FACULTY IN  
JOURNALS

Paper published by Dr. E S Prakash

- Dadapeer D and **Dr. E S Prakash**, “Numerical simulation of HCCI Combustion with Gasoline+Methyl Tera butyl blend”, Indian journal of science and technology, Vol.15( 44), pp. 2422-2431, 2022.
- Dadapeer D and **Dr. E S Prakash**, “Influence of Nano cerium oxide in emissions reduction with methyl tertbutyl ether gasoline blends, international journal of renewable energy”, accepted for publication, 2023.

Paper published by Dr. Irappa Sogalad

- Aravinda Pai, **Irappa Sogalad** and S. Basavarajappa (2023) Effect of thickness

on mechanical properties of modified 9Cr 1Mo steel welds made by narrow gap hot wire gas tungsten arc welding process, Welding International, 7:4,185-205,Taylor And Francis Publications, <https://doi.org/10.1080/09507116.2023.2207750>

- Aravinda Pai, **Irappa Sogalad**, Prabhat Kumar, S. Basavarajappa, S.J. Suresha , Impact properties of modified 9Cr 1Mo steel welds: Comparison between cold wire and hot wire gas tungsten arc welding processes, International Journal of Pressure Vessels and Piping, 198 (2022) 104672, pp1-23, <https://doi.org/10.1016/j.ijpvp.2022.104672>
- C.R. Raghavendra, S. Basavarajappa, Irappa Sogalad (2021) Grey Relational Analysis for optimization of wear parameters and surface roughness on nano composite coating, Journal of the Indian Chemical Society, 98(10) pp.1-12 <https://doi.org/10.1016/j.jics.2021.100171>

Paper published by Dr. Shekharappa B Mallur

1. Shridhar H. Budapanahalli, **Shekharappa B. Mallur**, Arun Y. Patil, Abeer Mohamed Alosaimi Anish Khan, Mahmoud Ali Hussein and Abdullah M. Asiri, “A Tribological Study on the Effect of Reinforcing SiC and Al<sub>2</sub>O<sub>3</sub> in Al7075: Applications for Spur Gears” Metals is an international, peer-reviewed, open access journal published monthly online by journal of MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations, Metals 2022, 12, 1022. <https://doi.org/10.3390/met12061028>.
2. Meghana, **Shekharappa B Mallur**, , H R Manohara, , Sreenivasa R, “Effect of holding time on hardness of A413 alloy with B 4 C intermetallic”, GIS Science Journal (Publisher: Wichmann Verlag, Germany), Vol.,9, Issue 08, August 2022. ISSN NO : 1869-9391, VOLUME 9, ISSUE 8 , 2022.
3. R. Sreenivasa. **Shekharappa B. Mallur** “ANN Technique Implementation for Wear Prediction of Bronze-Based Composites Under Dry Sliding Conditions” Journal of Failure Analysis and Prevention (2022),

<https://doi.org/10.1007/s11668-022-01529-z> Volume 22, Issue 5, November 2022

4. Shridhar H. Budapanahalli · Sandeep C. Dhaduti., **S. B. Mallur** “Fatigue Analysis of Hybrid Aluminium 7075 Composite Gears, Springer- The Institution of Engineers (India) 2023, (ORIGINAL CONTRIBUTION) <https://doi.org/10.1007/s40033-023-00499-2>, J. Inst. Eng. India Ser. D, 06 June 2023.
5. Rakshithashree K S, **Shekharappa B. Mallur**, Sreenivasa R “Investigation of the correlation between the different mechanical properties of jute composites”, GIS Science Journal (Publisher: Wichmann Verlag, Germany), VOLUME 10, ISSUE 8, 2023. ISSN NO: 1869-9391 (PAGE NO: 630-638 DOI:20.18001.GSJ.2022.V10I8.23.411523).

#### Paper published by Dr. Mallikarjun C

- K. Ajay Kumar and **C. Mallikarjuna**, “Microstructure and mechanical properties of A356/Al<sub>2</sub>O<sub>3</sub>/MoS<sub>2</sub> hybrid Nanocomposites”, [ScienceDirect](#) Materials Today: Proceedings, Vol. 54, pp.415-420, 2022.
- K. Ajay Kumar and **C. Mallikarjuna**, “Wear behavior of A356/ Al<sub>2</sub>O<sub>3</sub>/MoS<sub>2</sub> hybrid nanocomposites”, [ScienceDirect](#) Materials Today: Proceedings, Vol. 54, pp.409-414, 2022.
- K. Ajay Kumar and **C. Mallikarjuna**, “Investigation of Mechanical Properties of Aluminium356 reinforced with Nano Alumina and Studying the effect of addition of MoS<sub>2</sub> on Aluminum Nanocomposites”, *International Journal of Mechanical Engineering*, Vol 7, No. 4, pp.161-166, 2022.
- K. Ajay Kumar and **C. Mallikarjuna**, “Investigating the Wear Characteristics of Aluminium356/ Alumina Nanocomposite and Studying the impact of MoS<sub>2</sub> addition into Aluminium356/ Alumina Nanocomposite”, *International Journal of Mechanical Engineering*, Vol 7, No. 4, pp.167-173, 2022.
- Lingaraju S.V, **Mallikarjuna C.** and Venkatesha B.K., “Investigation on Wear Analysis of Aluminium (Al) 7075 Alloy Reinforced with Titanium Carbide (TiC) and Graphene (Gr) Nanoparticles”, *Advanced Technologies in Solid-State Materials Research* , Vol 339, pp.125-134, Dec 2022.

- Lingaraju Sannananjapla Vageshappa, **Mallikarjuna C**, Saleemsab Doddamani, “Effect of addition of TiC nanoparticles on the tensile strength of Al7075-graphene hybrid composites”, *Research on Engineering Structures and Materials*, Vol 9(1), pp.19-30, 2023.

#### Paper published by Dr. Kishan Naik

- G Madhavi, CR Raghavendra, and **Kishan Naik**, “Influence of Aluminium Oxide Coating on Aluminium and Stainless Steel Cookwares Deposited by Air Plasma Spray Process”, *Recent Advances in Materials and Modern Manufacturing: Select Proceedings of ICAMMM* ,Springer Nature Singapore, pp.: 469-478, 2022.
- K Kiran Kumar, Banjara Kotresha, **Kishan Naik**, “Effect of Partial Filling of Metal Foams on Exergy Transfer in a Vertical Channel” , *Recent Advances in Mechanical Engineering: Select Proceedings of ICRAMERD*, Springer Nature Singapore, pp.: 157-166,2022.
- K Kiran Kumar, Banjara Kotresha, **Kishan Naik**, “Energy Transfer and Irreversibility of Metal Foams Filled in a Vertical Channel”, *Journal: Journal of Thermal Science and Engineering Applications*, Volume: 15, Issue: 8, 2023.
- Kiran Kumar, Banjara Kotresha, **Kishan Naik**, “Flow and heat transfer irreversibility in partial filled metal foams”, *International Journal of Thermal Sciences*, Vol: 184, Pages: 107968, 2023.
- Amreen Taj, RP Swamy, **Kishan Naik**, KN Bharath, “Effect of nano-filler aluminum oxide and graphene on flammability properties of kenaf epoxy composites” , *Journal of The Institution of Engineers (India): Series D*, Vol: 104, Issue: 1, pp. 143-154, 2023.
- Amreen Taj, Swamy RP, **Kishan Naik**, and Bharath KN, “Physical effects of nanoaluminum oxide and nanographene on kenaf epoxy composite; vacuum bagging process”, *Journal of Applied Polymer Science*, John Wiley & Sons, Inc., Vol.140,Issue: 4, Pages: e53374, 2023.

#### Paper published by Dr. C G Sreenivasa

- Mahendra K C, **Sreenivasa C. G.**, Anil Kumar H M and Veerabhadrapa Algur, (2022), “Effect of Process Parameters on Tensile Behaviour of FSW AA 6061-AA 7075 Reinforced with TiO<sub>2</sub> Particles using Statistical Approach”, *Journal of*

Mines, Metals and Fuels, 70(8A): 1- 479, DOI: 10.18311/jmmf/2022/32014.

- Mahadev and **Sreenivasa C G** (2022), "Studies on Powder Metallurgy Process to Produce Aluminum Metal Foam by Using Taguchi Optimization Techniques", Journal of Optoelectronics Laser, Vol.41, No.8, pp.655-662.
- Mahadev M., **Sreenivasa C G** and Borgaonkar A V (2022), "Effect of Influencing Parameters on Developing Aluminium Metal Foam by Using Powder Metallurgy Technique with a Foaming Agent as a Wax Powder, Journal of Porous Materials, <https://doi.org/10.1007/s10934-022-01405-z>.
- Mahadev M., **Sreenivasa C G**, Manjunath P G C., Avinash L., Singhal P., Pandit D and Malik V, "Influence of Foaming Agents on Mechanical and Microstructure Characterization of AA6061 Metal Foams", Journal of Process Mechanical Engineering, Vol.1, No.13, pp.1-13, 2022.

#### Paper published by Dr. K Mohamad Kaleemulla

- Mohamed Kafeel Delvi and **K Mohamed Kaleemulla**, "Tensile and compressive mechanical properties of ZA27/molybdenum disulfide, metal matrix composite", Research on Engineering Structures & Materials, Accepted on 23<sup>rd</sup> March 2023. In Press. DOI: <http://dx.doi.org/10.17515/resm2022.583me1112>
- R.S. Ramesh, Saleemsab Doddamani and **K Mohamed Kaleemulla**, "Fracture toughness investigations of AA6061-SiC composites: Effect of corrosion parameters", Materials\_Chemistry and Physics, Accepted on 17<sup>th</sup> July 2023, DOI: [10.1016/j.matchemphys.2023.128224](https://doi.org/10.1016/j.matchemphys.2023.128224)
- Saleemsab Doddamani and **K Mohamed Kaleemulla**, "Analysis of light weight natural fiber composites against ballistic impact: A Review", International Journal of Lightweight Materials and Manufacture, 6(3):450-468 Feb 2023, DOI: [10.1016/j.ijlmm.2023.01.003](https://doi.org/10.1016/j.ijlmm.2023.01.003)
- Vishal D, Saleemsab Doddamani and **K Mohamed Kaleemulla**, "Structural and modal analysis of crankcase of single cylinder diesel engine", International Journal on Interactive Design and Manufacturing (IJIDeM) 17(3):1-9, November 2022, DOI: [10.1007/s12008-022-01101-x](https://doi.org/10.1007/s12008-022-01101-x)

#### Paper published by Dr. K G Satish

- Siva Prakash P and **K G Satish**, "Study of Fracture Toughness for Aluminium Matrix

Composites: Taguchi Approach", International Journal of Research and Analytical Reviews, Volume 9, Issue2, PP 431-439, 2022.

- Siva Prakash P and **K G Satish** "Investigation on the effect of coating for the scratch resistance of aluminium matrix composite reinforced with SiC particles" International Journal of Scientific Research and Engineering Development, Volume 5, Issue 6, PP 1175-1180, 2022.
- Harsha H M and **Dr K G Satish**, "A Statistical Analysis on Tensile behavior of Single Edge Notched Jute Hybrid Composites", International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), ISSN (Online) 2581-9429, Volume 2, Issue 1, pp.522-528, October 2022.
- Harsha H M and **Dr K G Satish**, "Fracture toughness optimization of single edge notched jute hybrid uniaxial tension composites", International Research Journal of Modernization in Engineering Technology & Science (IRJMETS), e-ISSN: 2582-5208, Volume 4, Issue 10, pp.1257-1263, October 2022
- Siva Prakash P and **Dr K G Satish** "Experimental study on the scratch resistance for ramp loading of aluminium matrix composites reinforced with sic particles" *International Research Journal of Modernization in Engineering Technology and Science*. Volume 5: Issue 6, pp. 2702-2707, 2023.

#### Ph.D. DETAILS: GUIDING / AWARDED

Name of Faculty	Awarded	Submitted	Guiding
Dr. E S Prakash	--	01	--
Dr. S B Mallur	2	01	01
Dr. Irappa Sogalad	2	--	4
Dr. Mallikarjun C	2	--	2
Dr. R P Swamy	2	--	--
Dr. Vijay Kumar	--	--	--
Dr. C G Sreenivasa	1	--	2
Dr. Kishan Naik	2	--	2
Dr. K Mohamad Kaleemulla	--	1	--
Dr. K G Satish	1	2	--

## DEPARTMENT OF STUDIES IN ELECTRICAL & ELECTRONICS ENGINEERING

### VISION

To be an excellent centre for imparting quality education in Electrical and Electronics Engineering to meet the growing needs of society with credibility, integrity and ethical standards.

### MISSION

**M1.** To facilitate the students with a supportive environment to acquire the basic skills in Electrical Engineering and Technology by adopting effective teaching learning process.

**M2.** To impart the state of art knowledge in the relevant field to promote research and consultancy in Electrical and Electronics Engineering.

**M3.** To emphasis and support industry institute relationship for producing entrepreneurs to contribute for social and rural benefits

**M4.** To imbibe Self Learning Attitude, professional ethics, interpersonal & leadership skills in students to succeed in diverse fields

### EVENTS

Around 30 students of **batch 1996-2000** visited the college and interacted with the teachers and the students of the department on 25.06.2022

The **Forum** of Electrical & Electronics Engineering aims at promoting extra and co-curricular activities among the students Electrical Engineering. The inauguration of the forum was held on 12.01.2023. The office bearers of the forum gave farewell to the 2019-23 batch students on 01.06.2023.

### Ph.D. AWARDED

Dr. R. D. Satyanarayana was awarded Ph.D. degree by Visvesvaraya Technological University, Belagavi on 23rd Feb-2023. He did research under the guidance of **Dr. K.S. Aprameya**, Professor, E&E Department. His topic was " A Study and investigations on recent trends of on-line condition

monitoring of 3 phase Squirrel cage Induction motor Drives"

### ONGOING RESEARCH

Smt. Vanishree G.N. has been given provisional admission to pursue Ph.D. Programme (15/05/2023) under Visvesvaraya Technological University, Belagavi. She will be pursuing research on Full time under the guidance of **Dr. Ashoka H. N.**, Professor and Chairman, Dept. of Studies in Electrical & Electronics Engineering. Title of the proposed research topic is "Smart Power Controllers for Grid integrated photovoltaic systems"

### PAPER PRESENTED

Smt. Pallavi B & **Dr. H.C. Mouneshwarachar** presented a paper entitled "Computation of Electric Field around High Voltage Transmission Line-A Computer Simulation" in International Journal for Modern Trends in Science and Technology (IJMTST). This article has been indexed in Scope database based on the recommendation of the Content Selection Committee (CSC) after reviewing the content submitted by the publisher. The certificate was issued on 21/07/2022.



## DEPARTMENT OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

### VISION

To create high quality engineering professionals who can serve the society and earn global recognition

### MISSION

**M1:** To impart excellence knowledge and enrich the problem-solving skills in the field of Electronics and

Communication Engineering, capable of contributing to the societal and industry needs.

**M2:** To implement holistic approach in curriculum and pedagogy through Industry Integrated Interaction to meet the needs of real life problems.

**M3:** To nurture students with knowledge, attitude and skills of employability, entrepreneurship, research potential and professionally ethical citizens.

## WORKSHOP CONDUCTED IN THE DEPARTMENT

- E&C Department Conducted **2 days ISTE Sponsored workshop for students on "Machine learning by using Python"** between 10-12-2022 to 11-12-2022, Co-ordinated by **Sri. Ramesh K.**
- **Dr. Sreedharmurthy S.K.** organized a **2 days ISTE Sponsored workshop for students on "Project Development Using AURDINO"** between 24-12-2022 to 25-12-2022.
- One week **ISTE Sponsored Workshop on "Cadence tool for VLSI Lab Training Program"** for students was organized by **Sri. Arun Raj S.R** from 27<sup>th</sup> March 2023 to 31<sup>st</sup> March 2023.



## CONFERENCE, SYMPOSIA, SEMINARS, WORKSHOPS ETC. ATTENDED BY TEACHERS

- **Dr. Sreedharmurthy S.K** attended one week online ISTE Sponsored workshop on "Electronic Assistive devices" at BIET, Davanagere from 07/01/2022 to 13/01/2022.
- **Dr. Reshma M** attended one week online AICTE Sponsored workshop on "Introduction to Python Programming & its Applications" conducted at VIAT, Muddenahalli, **Chikkaballapur from 13/03/2023 to 17/03/2023.**

Sri. Arun Raj S.R has attended and completed many Programs.

- 1) Completed NITTT - AICTE - Module 1 to 8 Certification dated July 2022.
- 2) Attended One Week Online FDP conducted by NITTTT, Chennai "ARM LPC2148 MICROCONTROLLER and its Applications" between 03/01/22 to 07/01/22.
- 3) Attended One Week Online FDP conducted by NITTTT, Chennai "Reference Management and Data Visualization" between 14/02/22 to 18/02/22.
- 4) Attended One Week Online AICTE - ISTE FDP Programme on "Recent Trends in VLSI Design Using Microwind EDA Tool" between 07/02/22 to 11/02/22.
- 5) Attended One Week Online AICTE - ISTE FDP Programme on "The Role of Technical Institutes in Promoting Innovations in Skill Development, Employability and Entrepreneurship" between 09/03/22 to 15/03/22.
- 6) Participated and attended One Week Online on "IMPLEMENTATION OF OBE AND NEP-2020" organized by National Institute of Technical Teachers Training and Research, Chennai between 18/04/2022 TO 22/04/2022.
- 7) Participated in blended & hybrid mode AICTE - ATAL FDP at GM Institute of Technology, Davanagere Two weeks on "Analog and Digital Design Flow for VLSI Chip Application" from 20-

02-2023 to 25-02-2023&27-02-2023 to 03-03-2023.

- 8) Participated and attended One Week online IEEE FDP conducted at East Point College of Engineering & Technology, Bengaluru on "Cybersecurity & Blockchain Technologies from 05/04/2022 to 09/04/2022.
- 9) Participated and attended One Week online International FDP by Kamla Nehru Mahavidyalaya, Nagpur on "Research Methodology" from 02/05/2022 to 07/05/2022.
- 10) Attended One Day Technical Online Webinar organized by BVICAM, New Delhi on "Cyber Forensic Audit: Changing Role of Auditors" on 02/04/2022.
- 11) Attended One Day Technical Online Webinar organized by BVICAM, New Delhi on "Cyber Warfare, Cyber Security and Cyber Citizenship" on 09/04/2022. **Sri. Arun Raj S. R** Received PRIDE OF INDIA AWARD – 2022 for Academic Excellence on 14/04/2022, International Council of Social Reforms & Research, Ghaziabad

#### RESEARCH PAPERS PUBLISHED BY FACULTY IN JOURNALS

##### Paper published by Dr. Ravindra P. Rajput

- **Ravindra P. Rajput**, "Human Activity Recognition", International Research Journal of Engineering and Technology (IRJET), Vol 9, Issue 7, July 2022.
- **Ravindra P. Rajput**, "Air pollution prediction using machine learning", International Research Journal of Engineering and Technology (IRJET), Vol 9, Issue 7, July 2022.
- **Ravindra P. Rajput**, "Thoracic Disease Detection Using Deep Learning", GIS Science Journal, Volume 9, Issue 7, July 2022.
- **Ravindra P. Rajput**, "OptiMD-3D DCNN : A Framework for restoring the Haze-Free images by image Dehazing Techniques Using Heuristic Approach of Adaptive lifting Wavelet Transform", 21 Feb 2023 Journal of Cybernetics & Systems.
- **Ravindra P. Rajput**, "Skin Disease Classification Using Deep Learning Models and Machine Learning", International journal of Scientific Research in Engineering (IJSREM), vol 7, Issue 6, June 2023.

- **Ravindra P. Rajput**, "Crop Recommender System using Machine Learning Approach and IOT", International journal of Scientific Research in Engineering (IJSREM), vol 7, Issue 6, June 2023.

##### Paper published by Dr. Manja Naik N

- **Manja Naik N**, "An adaptive compression Technique for efficient video Reconstruction in future generation wireless Network" December - 24, 2022
- **Manja Naik N**, "Group photo attendance system using one shot learning", GIS Science Journal, Volume -9 Issue 7th 2022.
- **Manja Naik N**, "Automatic Location Based Crop recommender system using machine learning approach" DICKENSIAN Journal Volume-22, Issue 7th 2022.
- **Manja Naik N**, "Advanced Security System of ATM through facial recognition" DICKENSIAN Journal, Volume-22, Issue 7th 2022
- **Manja Naik N**, "Novel Frame work for enhancing data quality using data correlation factor in wireless sensor network", Volume -2, Issue 1st 2022
- **Manja Naik N**, "IF - NAC improved funneling MAC for wireless sensor network", Volume -10, Issue 1st 2022.

##### Paper published by Dr. Lakshman Naika R.

- **Dr. Lakshman Naika R**, "Online kannada Hand written recognition using deep learning", IRJET, Volume 9, 6th June 2022.
- **Dr. Lakshman Naika R**, "Offline kannada Hand written recognition using deep learning", IJSREM, Volume 6, 10th October 2022.

##### Paper published by Dr. Geetha V

- **Kavya C K and Geetha V**, "House price prediction using machine learning", GIS Science Journal, Vol. 10, Issue 6, 2023.
- **Ranjitha D.S and Geetha V**, "Credit card fraud detection and prevention by two step algorithm", GIS Science Journal, Vol. 9, Issue 7, 2022.
- **Divyarani B A and Geetha V**, "Improving the prediction Accuracy of soil nutrients classification by optimising extreme learning machine parameters", International Journal for Research in Applied Science and Engineering, Vol 10, Issue 6, June 2022.

### Paper published by Dr.T.D.Shashikala

- **T.D.Shashikala**, "Quantification of worn surface using digital image processing", Tribology International (Elsevier) 2023.
- **T.D.Shashikala**, "Some studies on measurement of worn surface by digital image processing", IJIG (World Scientific),2022.
- **T.D.Shashikala** , "An Experimental study on worn surface by digital image processing", JETIR 2022.
- **T.D.Shashikala** , " Cancer Clumps Detection using Image Processing based on cell counting" IRJET, 2022.
- **T.D.Shashikala** ,"Detection and classification usinf Digital Image Processing",IRJET, 2022

### Paper published by Dr. Reshma.M

- **Reshma. M**,"Heart Disease Prediction Using Machine Learning Techniques",Neuro quantology November 2022 Volume -20 National Journal.
- **Reshma. M**, "Corona Virus,its effects and solution -A reviewNational Journal Neuroquantology",August 2022,Volume 20,Issuse10, page 6860-6870
- **Reshma. M**, "Preprocessing of skin cancer images using non-local means(NLM) Filter", BPJ 2022.

### Paper published by Mr. Arun Raj S.R

- **Arun Raj S.R**, "Melanoma skin cancer detection using deep learning & classical machine learning techniques", IJSREM – Scientific Journal 2022.
- **Arun Raj S.R**, "Intelligent shopping cart", IJSREM – Scientific Journal 2022.
- **Arun Raj S.R**, "Intelligent Traffic Control System for Congestion Control, Ambulance Clearance and Stolen Vehicle Detection", IJRASET – Scientific Journal – March 2022

### Ph.D STUDENTS AWARDED

Dr. Anand Shankar Gudnavarwas awarded Ph.D degree by Visvesvaraya technological University Belgaum, on 2022 under the guidance of **Dr. Manja Naik N** Professor, department of E&C. The title of the thesis is "Developing an efficient data aggregation technique for spatial correlation model in Wireless sensor networks".

### FACULTY RECEIVED Ph.D

**Dr. T. D. Shashikala**, Associate Professor, received Ph.D degree with the thesis entitled "Applications of

digital image processing for surface damage detection of materials" on 03/07/23 under VTU.

### EXPERT LECTURES OR INVITED LECTURES/TALKS

Karibasavaraja], Sumukha Infotech, Davanagere delivered a Lecture for students on " Skill Sets Required to ACE Job in new age Technologies" on 31/12/2022.

### PATENTS PUBLISHED

**Dr. Manja Naik N** (First Author) & **Dr. Sreedharamurthy S. K.** (Third Author)has published a patent titled"AREA SANITIZING ROBOT FOR COVID-19" on 30/09/2022.

### BOOKS PUBLISHED BY FACULTY

**Dr. Ravindra P. Rajput**, Department chairperson written a book on "Computer Organization & Architecture" which is under review from Sanguine Publisher.

### PLEDGE TAKEN

As **National Voter's Day** (NVD) is celebrated across the country on 25th January Every year. Department of Electronics &Communication also made a pledge to vote . This year theme of NVD celebration is "Nothing like voting, I vote for Sure".

On **Rashtriya Ekta Diwas** ie 31stOctober 2022, A pledge made by students and faculties to dedicate themself to preserving the unity, integrity, and security of the nation and also strive hard to spread this message among my fellow countrymen on National Unity day Pledge .





## STUDENT ACHIEVEMENTS

Two students of EC department Vinayaka L.P and Chethan M.C selected for the siemen's scholarship and completed their training in basic electrical and mechanical engineering and basic mechatronics in Mumbai and Nasik respectively during 2nd Jan 2023 to 18th Jan 2023 and 5th May 2023 to 18th May 2023 respectively.

## PLACEMENT

Nearly 59 students got placed to Major IT Companies like TCS, Cognizant, Wipro, Infosys, HCL etc during 2022.

## FORUM ACTIVITIES

- Forum inauguration function held on 30th December 2022 in the presence of chief guest Dr.BanakaraBasavaraja professor of department of electrical and electronics engineering , beloved principal Dr. Shivaprasad B Dandagi , teaching staff and students of UBDTCE Davangere.

## DEPARTMENT OF STUDIES IN COMPUTER SCIENCE AND ENGINEERING

### VISION

To be a centre of excellence in Education and Research in the field of Computer Science and Engineering by empowering the students to be highly competent, technologically proficient, self motivated, innovative professionals, entrepreneurs and responsible global citizens possessing human values to meet the global challenges.

### MISSION

**M1:** To impact the students with strong fundamental concepts, analytical capability, problem-solving skills, thereby enhancing the employability skills required for the industries.

**M2:** To provide a conducive teaching learning, research environment through faculty training, self-learning and sound academic practices to carry out research with reputed research institutes and industries.

**M3:** To train the students to become the most sought after professionals by proving them the opportunities to promote organizational and leadership skills in students through various extracurricular and co-curricular events.

**M4:** To include the qualities of leadership and entrepreneurship with good human values and professional ethics to become good citizens and serve the society.

- Department of the electronics and communication engineering organized Forum sports from 28th March 2023 to 10th April 2023 which includes the following sports i.e Badminton, Carrom, Chess, Cricket, Throwball, Volleyball.
- Department of the electronics and communication engineering organized "TECHSTORM"event on 11 th May 2023 which includes the following events i.e crossworld, debate, component identification, rubik's cube, poster making.

Be mindful. Be grateful. Be positive. Be true. Be kind.

### EVENTS CONDUCTED BY THE DEPARTMENT



CS&E Department Conducted **2 weeks AICTE Sponsored FDP on " Intelligent Schemes for Cyber Security"** . one week online between 05-09-2022to 10-09-2022. And offline 12-09-2022 to 16-09-2022. **Co-ordinators are Dr. Mohammed Rafi and Dr. Srinivasa Naika C L.**



### Python Programming for IT Engineering Branches

One week In-house **Workshop on " Python Programming for IT Engineering Branches"** in co-ordination with MCA Department for the staff of our college. Conveners are **Dr. Shreedhara K S**, Dr, Harish B G and Co-ordinators are Smt. Kavitha G. and Mr. Srinivasulu M from 28<sup>th</sup> November to 6<sup>th</sup> December 2022. Resource persons are Mr. Naveen Kumar B, Dr.Shreedhara K S, Smt. Kavitha G, Smt. Veena B, Kum. Ashwini C, Md. Irshad Hussain B, Dr. Harish B G, and Mr. Srinivasulu M.



Two days' **workshop on "Full Stack Web Development"** conducted by Department of CSE in association with ISTE students chapter of UBDTCE4th& 5th June 2022.



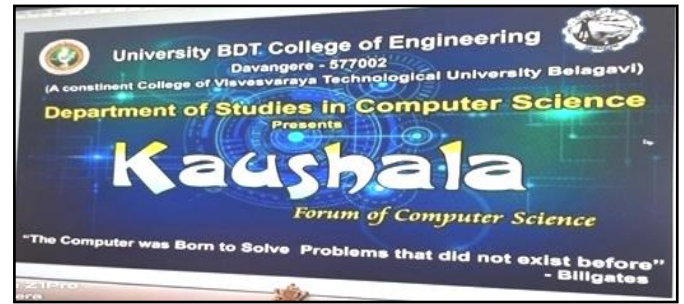
One day **Workshop on IOT and its applications using IOT Trainer Kit** (Hands on Demonstration) by TMI systems, Bangalore3<sup>rd</sup> July 2023.



**One day Talk on Cyber Security** organized by Forum of Computer Science and Engineering at M.Tech hall Resource person is Dr. Mohamed Rafi on 12<sup>th</sup> August 2023.



Three weeks **Internship programme** for 3rd semester BE students conducted on C & C++ Programming Resource persons were all the staff members of our Department 17<sup>th</sup> October 2022 to 5<sup>th</sup> November 2022.



Two days **KAUSHALA** event conducted by FORUM of CSE (FOCS) 28<sup>th</sup>& 29<sup>th</sup> December 2022.



Inauguration of Joint R&D Centre of **CarveWing Solutions & UBDT** in R&D Block, UBDTCE 5<sup>th</sup> May 2023.

### ACHIEVEMENTS OF STAFF AND STUDENTS

#### **Dr. Shreedhara K S, Professor in CSE**

#### **PAPER PUBLISHED:**

- " A Deep learning based IT services desk ticket classifier using CNN" , ICTACT Journal on Soft Computing, Vol 13, Issue 1, pp 2229-6956, ) , Oct 2022,
- " Exploring Deep Neural Networks for Automated ticket Classification", Neuro Ontology, Vol 20, Issue 13, pp 3922-3933, 2022

- “ Non-Negative Matrix Factorization based Clustering approach to classify IT support tickets”. Journal of Data Acquisition and Processing, Vol 38, No 1, pp 3555-3566, Jan 2023.
- ‘Image Caption generation using Convolution Neural Network and LSTM’, ITEE JOURNAL, Vol 11, Issue 4, Aug 2022.

#### OTHERS:

- A Text book on “Computer Graphics with OpenGL”. (Reprint), Cengage Publishing,
- Delivered lecture on “ Soft computing and its Applications” at GMIT, Davanagere.
- Delivered a Lecture on “ Biology for Engineers” at BIET, Davanagere
- Conducted One day workshop on “ Scheme and syllabus framing on IT courses” at SJCIT, Chickkabalapur

#### Dr Mohammed Rafi has delivered around 20 talks across the country on various topics of

- 1) Deliver a talk on Statistical tools , AICTE, FDP at RMYCE, Bellari Karnataka
- 2) Deliver a talk on Teaching Pedagogy at University BDT College of Engineering Davanagere, Karnataka
- 3) Deliver a talk on Cyber Threat Intelligence at University BDT College of Engineering Davanagere, Karnataka
- 4) Deliver a webinar on Cyber Threat Intelligence at SDM Institute of Technology, Ujire, Karnataka
- 5) Deliver a webinar on Cyber Security at SDM Institute of Technology, Ujire, Karnataka
- 6) Deliver a webinar on Cyber Security at KIT, Tiptur, Karnataka
- 7) Deliver a Seminar on Cyber Security at Saphthagiri Institute of Technology, Bangalore, Karnataka
- 8) Deliver a Seminar on Cyber Security Threats at Saphthagiri Institute of Technology, Bangalore, Karnataka
- 9) Deliver a Seminar on Cyber Security at JNNCE, Shimoga, Karnataka
- 10) Deliver a Online FDP on Components of Cyber Security AICTE FDP at JNNCE, Shimoga, Karnataka
- 11) Deliver a Online FDP on Types of Cyber Threats AICTE FDP at JNNCE, Shimoga, Karnataka
- 12) Deliver a Webinar on Statistical tools , at SJCIT, Chikballapura, Karnataka

- 13) Deliver a Webinar on Open Source Tools in research & development in Engineering , at SJCIT, Chikballapura, Karnataka
- 14) Deliver a Webinar on Open Source Image Analysis & Statistical Tools in research & development in Engineering , at NI Mysore, Karnataka
- 15) Deliver a Webinar on Open Source Statistical tools for research & development in Engineering , at VISAKHA Institute of Engineering & Technology, Vishkapatnam Andhra Pradesh
- 16) Deliver a Webinar on Effective Measures of Research , at VISAKHA Institute of Engineering & Technology, Vishkapatnam, Andhra Pradesh
- 17) Deliver a talk on NBA Criteria 9 & 10 at Jain Institute of Technology, Davanagere, Karnataka
- 18) Deliver a talk on Measures of Application Security at University BDT College of Engineering Davanagere, Karnataka
- 19) Deliver a webinar on Cyber Security, Moulana Azad University Bangalore , Karnataka
- 20) Deliver a talk on awareness of Cyber Security at HKBK engineering college Bangalore

#### Dr. Mohammed Rafi has published around 14 papers in the year 2022-2023

- 1) M. I. B. Hussain, and **M. Rafi**, “A Secured Biometric Authentication with Hybrid Face Detection and Recognition Model”, International Journal of Intelligent Engineering and Systems , Vol.16, No.3, pp.48-61, 2023. DOI: 10.22266/ijies2023.0630.04
- 2) M. I. B. Hussain, and **M. Rafi**, “Online Financial Transactions in India: A Study of Its - Significance, Frauds and Security Models to Counter Frauds”, , International Journal of Intelligent Engineering and Systems, Vol.16, No.3, pp. 455-469, 2023. DOI: 10.22266/ijies2023.0630.36
- 3) Aslam B Nandyal , **Mohammed Rafi** “Handling End-to-end data consistency in a cloud based sync framework for data object access and management” International Journal of Application or Innovation in Engineering & Management (IJAEM), Volume 11, Issue 10, October 2022.
- 4) Ambika L G , Dr. T N Anitha , Dr. Jayasudha K , **Dr. Mohamed Rafi** “A Framework for Identifying the Factors Impacting Breast Cancer Detection Using CNN”, Eur. Chem. Bull. 2023, 12(4), 1402-1412

- 5) Naseer R, **Dr. Mohamed Rafi** “ A Deep Learning Approach for Biometric Security in Video Surveillance System Using Gait” International Journal of Safety and Security Engineering Vol. 12, No. 4, August, 2022, pp. 491-499
- 6) Ambika L G , Dr. T N Anitha , Dr. Jayasudha K , **Dr. Mohamed Rafi** “Breast Cancer Identification And Classification Using Fcm Based Division Algorithms And Llrbbfn” SeyBold report, DOI 10.5281/zenodo.7262709
- 7) H S Saraswathi1 , **Mohamed Rafi**, U-Net-based Pancreas Tumor Segmentation from Abdominal CT Images, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 14, No. 7, 2023
- 8) Pranathi, **Mohamed Rafi**, REVIEW PAPER ON LIVER CANCER, Journal of Emerging Technologies and Innovative Research (JETIR), April 2023, Volume 10, Issue 4
- 9) Sohan R, **Mohamed Rafi**, Blockchain Application in Civil Aviation and defense, Journal of Software engineering tools & technology trends, Volume 9, Issue 3
- 10) Chaitra, **Mohamed Rafi**, VIDEO SURVEILLANCE SYSTEMS WITH PRESENTATION OF EXISTING VSS, IJIRSET, Volume 12, Issue 1, January 2023
- 11) Ankitha, Anannya, **Mohamed Rafi**, Review Paper on “Lung Cancer”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 12, Issue 1, January 2023
- 12) Vidya, **Mohamed Rafi**, Implementation of Bitcoin System and BTC Mining Operation in IJIRCE, Volume 10, Issue 9, September 2022
- 13) Rajeswari D, **Mohamed Rafi**, LUNG SCANS SEGMENTATION USING MARKER-CONTROLLED WATERSHED TRANSFORMATION, International Journal of Engineering Applied Sciences and Technology, 2022 Vol. 7, Issue 3, ISSN No. 2455-2143, Pages 152-156
- 14) Sindhu, **Mohamed Rafi**, Review on Gait Recognition: A Biometric Approach, IJIRSET, Volume 11, Issue 12, December 2022

#### Paper published by Kavitha G

- 1) Kavitha, G., Prakash, C., Alhomrani, M., Pradeep, N., Alamri, A. S., Pareek, P. K., & Alhassan, M. (2023). “Noise Estimation and Type Identification in Natural Scene and Medical Images using Deep Learning Approaches”. Contrast Media & Molecular Imaging, 2023.



Vijay G M 4<sup>th</sup>sem student Got Golf(code competition ) 2<sup>nd</sup> Price in the 21-06-2023 at Department of ISE, BIET. And Iso 3<sup>rd</sup> prize in Blind coding.



Vijay G M and Omkar Kale Got 1<sup>st</sup> prize in Code Battle in 2023 at GMIT The coding competition consisted of three challenging rounds, each tougher than the last. Despite the difficulties, we were able to successfully overcome all problems and produce solutions. We are thrilled to announce that our team won first place. The judges were impressed with our program, and we are grateful for the opportunity to showcase our skills against other talented coders. Winning this competition has given us great accomplishment and motivation to continue improving our coding abilities. We are excited to see what other challenges and opportunities lie ahead.

Date: 13/01/2023

Venue: Bapuji Institute of Engineering and Technology

Competition Name: Bit's N Bytes



Shradha M Pokle and Sanketh Kumar got 1<sup>st</sup> prize in coding competition at Department of ISE BIET

We are thrilled to announce that our team has won first place in a yoga quiz competition! It was a challenging and exciting experience, but we are grateful for the opportunity to test our knowledge and skills in this

discipline. The competition featured a variety of questions related to yoga philosophy, anatomy, poses, and history. As a team, we were able to demonstrate our expertise in all of these areas and felt confident in our answers throughout the competition.

One of the most rewarding aspects of the competition was being able to connect with other yoga practitioners and enthusiasts as a team. It was inspiring to see so many people passionate about this practice and eager to learn more. Overall, winning first place in this yoga quiz competition was a tremendous honor and a testament to the dedication and hard work we have put into our practice as a team. We are grateful for the support of our teachers and fellow yogis, and we look forward to continuing to deepen our understanding and knowledge of this transformative discipline together.

Date: 20/06/2023

Venue: University BDT College of Engineering, Davanagere

Competition Name: International Day of Yoga Quiz Competition.

1. Shradha M Pokle
2. Deeksha H M
3. Sanketh Kumar
4. Shamanth S R



This competition was held in our college on the occasion of Techno Mania 2K23. In the first round, all were given an algorithm to solve, of which only ten teams qualified for the next round. The second round had many algorithms out of which the maximum solved team was

awarded. We solved two algorithms and won the competition.

Date: 31/03/2023

Venue: University BDT College Davanagere

Competition Name: Algorithmics

• Vijaya G



This competition was held in our college on the occasion of Techno Mania 2K23. In the first round, everyone solved a quiz having questions on C/C++ and OOPS out of which the top 6 teams were selected for the next round. The second round had questions on the basics of OOPS, OS, Networking, DBMS, etc.

Date: 31/03/2023

Venue: University BDT College Davanagere

Competition Name: Unlock-It

Vijaya G M

Shashi Kumar



**THERE WILL BE OBSTACLES.  
THERE WILL BE DOUBTERS.  
THERE WILL BE MISTAKES.  
BUT WITH HARD WORK,  
THERE ARE NO LIMITS.**

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

### VISION

To achieve excellence by imparting quality technical education in a progressive teaching learning environment to make the program a top choice for undergraduate and research studies.

### MISSION

- To prepare professionally skilled and technically competent Electronics & Instrumentation Engineers to meet the needs of modern industry and emerging technology.

- To inculcate the spirit of entrepreneurship, passion to work, professional attitude, innovation, and human values to create knowledge centric society.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. The Program aims to inculcate professional skills to produce globally competent Electronics & Instrumentation Engineers.
2. The graduates of Electronics & Instrumentation engineering will be able to analyze, design, develop

and realize solutions to complex engineering problems of their specialization.

3. The graduates continue to develop professionally through life-long learning, higher education, and other creative pursuits in advanced technology, with professional ethics, social and human values.

### FDP/STTP/SEMINAR/WEBINAR/CONFERENCE CONDUCTED

- 1) **Three days workshop on “Machine Learning with Python”** was conducted from 06-05-2022 to 08-05-2022, which was jointly **coordinated by Dr. Sunitha S.L. & Smt. S. A. Pushpalatha.**
- 2) **Four days Skill development Programme on “C Programming for Embedded Controller”** was conducted from 13-12-2022 to 16-12-2022, which was jointly **coordinated by Dr. Sunitha S.L. & Smt. S. A. Pushpalatha.**
- 3) Organized C-DAC, Bengaluru, **Five days “Boot Camp Training on Unmanned Aerial Systems (Drone Electronics) under the project”** Capacity Building for Human Resource Development in Unmanned Aircraft Systems (Drone & Related Technology)” from 16-03-2023 to 20-03-2023. **Dr. Santhosh Kumar was the coordinator.**

### ACHIEVEMENTS

- 1) The students received Overall Championship for Chaitra 2022. Mr.Gagandeep won Chaitra Shree & Ms.Revathi won Chaitra Kusuma awards.
- 2) The students received Overall Championship for Chaitra 2023. Ms.Vinod P. won Chaitra Shree, Ms.Revathi won Chaitra Kusuma & Mr.Sudeep Adiga won Chaitra Chiguru awards.
- 3) Mr.Vrushab Goshar, 6<sup>th</sup> Sem E & I E Student has participated in many technical fests such as PROMETEO organized by IIT,Jodhpur, Human Rights Quiz by National HRC & MyGov, Prathibothsava VTU Youth festival, Online quizzing festival Vision 8 by University of Delhi, IIT Madras, IIT Ahmedabad, Prarambh 5.0 organised by International Management College, Calcutta and won the prizes.
- 4) Mr.Dheer Rudani, Mr.Vrushabh G.& Miss.Sahana I.A., has participated in VTU Youth Festival.
- 5) Mr.Dheer Rudani, Mr.Vinod P. & his team has participated in VTU Sports.
- 6)

### ACTIVITIES:

- 1) One day visit to Government Primary & High School, Siddanur, Anagodu , Davangere Taluk , on 14-02-2023 & conducted computer literacy program for students by 3<sup>rd</sup> semester students of E&IE.
- 2) The 3<sup>rd</sup> Semester students went to Sri. Samartha Narayana Ashram, Harihara, under the AICTE Activity on 10<sup>th</sup> March 2023. All the students actively participated in this for two days. They cleaned the temple premises. **Smt. Pushpalatha S.A., Smt.**

**Rachna H.B. & Sri Venkatesh Dixit C.Y.** accompanied the students.

- 3) **Dr. Santhosh Kumar D. R. coordinated** 3 days workshop from 4<sup>th</sup> to 6<sup>th</sup> November 2022, on “Micro Electro Mechanical Systems (MEMS)”, organized by E & IE in association with Artisense Technologies Pvt.Ltd., sponsored by ISTE Student’s chapter, UBDTCE, Davangere.
- 4) **Dr. Santhosh Kumar D.R.** coordinated 5 days workshop from 16<sup>th</sup> March 2023 to 20<sup>th</sup> March 2023, on “Boot Camp Training on Unmanned Aerial Systems (Drone Electronics)” organized by C-DAC, Bangalore at UBDTCE Davangere.





### ELECTRONICS & INSTRUMENTATION LABORATORY

1. Signal Conditioning and Data Acquisition Circuits Lab
2. Power Electronics, Controls & Communication Lab
3. Analog Electronics Circuits Lab
4. Measurements & Transducers Lab

### PROCESS CONTROL & COMPUTER PROGRAMMING LABORATORY

1. Introduction to Python Programming & Digital Design Lab using Pspice / MultiSIM / Verilog.
2. Signal Conditioning Lab using Pspice / MultiSIM
3. Process Control and Virtual Instrumentation Lab
4. Embedded Controllers Lab
5. JAVA Programming Lab
6. Digital Signal Processing Lab

### 7. Arm Controller Lab DEPARTMENT LIBRARY:

Department has forum library in which the outgoing students of 8<sup>th</sup> Semester will donate a book to the department. At present, it has about 450 books.

### Ph.D. AWARDED:

- Mr.Kiran Kumar G H received his Ph.D. degree on 30-07-2022 under the guidance of **Dr. Mallikarjun S. Holi**.
- Mr.Manohar P. received his Ph.D. degree on 24-02-2023 under the guidance of **Dr. Mallikarjun S. Holi**.
- Mrs.T.D.Shashikala was awarded Ph.D., degree by VTU,Belagavi on 03-07-2023 under the guidance of **Dr. Sunitha S. L.**, Associate Professor, Department of E& IE. The title of thesis is "Applications of Digital Image Processing for surface damage detection of materials".

### Ph.D. REGISTRATION:

The following Research Scholars have joined for Ph.D. program in 2022 and 2023 under the Guidance of **Dr. Mallikarjun S. Holi**

1. Smt. Rachna H.B.
2. Sri. Raviteja Balekai
3. Smt. Shwetha Rokhade

### PAPER PUBLICATIONS:

1. P. Manohar and **Mallikarjun S. Holi**, "Microaneurysms detection using grey wolf optimizer and modified k-nearest neighbor for early diagnosis of diabetic retinopathy", *International Journal of*

*Intelligent Engineering and Systems*, vol.15, no.1, 130-140, 2022. DOI: 10.22266/ijies2022.0228.13

2. Ashalatha ME, **Mallikarjun S Holi**, Shubha V. Patel and Deepashri KM, "Segmentation of Brain Tumor using Multiple Threshold Technique, *International Journal of Health Technology and Innovation*, vol. 2(1), pp.23-26, 2023.

### SEMINAR / CONFERENCE / WORKSHOP / TRAINING ATTENDED.

#### Dr. Mallikarjun S. Holi

1. Two Days VTU Education Conclave at Mysuru on 13<sup>th</sup>& 14<sup>th</sup> August 2022.
2. One Day Awareness Workshop on Outcome Based Education (OBE) and Accreditation, organized by NBA and VTU at BMS College of Engineering, Bemgaluru, on 16<sup>th</sup> January 2023.
3. One Week AICTE-VTU Joint Teachers Training Programme on "Electronics Circuit Design using LabView" from 12<sup>th</sup> to 16<sup>th</sup> June 2023, organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur.

#### Smt. S. A. Pushpalatha

Attended One week AICTE-VTU Joint teachers Training Program on "Introduction to Internet of Things (IOT)" from 17<sup>th</sup> to 21<sup>st</sup> April 2023 organised by VTU.

### INVITED TALKS:

1. **Dr. Mallikarjun S. Holi** delivered an invited talk on the topic "**Human Assistive Devices/Instruments/Systems**" in the AICTE-ISTE sponsored FDP at BIET Davangere on 8<sup>th</sup> January 2022.
2. **Dr. Mallikarjun S. Holi** delivered an invited talk on the topic "**VTU Regulations and Outcome Based Education**" in the 1<sup>st</sup> phase of BE 1<sup>st</sup> year Induction Program at UBDTCE, Davangere on 2<sup>nd</sup> December 2022.
3. **Dr. Mallikarjun S. Holi** delivered an invited talk on the topic "**Sensor Technology and Smart Sensors**" in the BE 1<sup>st</sup> year induction program at BIET, Davangere on 5<sup>th</sup> December 2022.
4. **Dr. Mallikarjun S. Holi** delivered an invited talk on the topic "**Outcome based Education, CBCS and VTU Regulations**" in the 2<sup>nd</sup> phase of BE 1<sup>st</sup> year induction program at UBDTCE, Davangere on 6<sup>th</sup> June 2023.
5. **Dr. Santhosh Kumar D. R.** delivered an invited talk on the topic "**Aptitude Test Preparation**" in the 1<sup>st</sup> phase of BE 1<sup>st</sup> year induction program at UBDTCE, Davangere on 3<sup>rd</sup> December 2022.

## RESEARCH GRANTS RECEIVED .

The department has received Rs.20 Lakhs grants under Vision Group for Science & Technology (VGST), Government of Karnataka, Bengaluru, for the research project "Establishing the facility for Project Lab" under the coordination of Dr.K.S.Aprameya, Professor in E & E. The project of 8<sup>th</sup> Sem E & IE "IOT based portable Ventilator for respiratory issues in Medical Application" got sanctioned KSCST grants of Rs.5000/-, under the guidance of Dr.T.D.Vishnumurthy, dated 24-04-2023. The project associates were Mr.Abhishek Hadagali, Ms.Akshatha R, Ms.Anita Channabasappa Telagi & Ms.Anjali Dafedar.

## RESULT ANALYSIS:

(During last three years, in the standard table format submitted to Exam section)

Sl. No.	Year	Total Students Attended	Total Students Passed	Percentage %
1	2020-2021	46	45	97.82%
2	2021-2022	47	47	100%
3	2022-2023	42	41	97.61%

## PLACEMENT:

Batch	No of Eligible Students	No of Students Placed	Percentage %	Major Companies
2021-2022	37	29	78.37%	TCS, Cognizant, Wipro, HCL,L&T Technologies, Capgemini, Herin Electronics, Royal Oak, Hexaware, Baryons Software solutions, Microland.
2022-2023	42	34	80.95%	TCS, Cognizant, Schneider Electric, RINEX Technologies, Small Day IT Services Pvt Ltd., Bengaluru, Yokagawa India Limited, MAINTEC Technologies, JOSH Mithra, X-wrkZ ODC, TAP Academy.

## DEPARTMENT OF STUDIES IN INDUSTRIAL AND PRODUCTION ENGINEERING

### VISION

Providing best quality value based education in Industrial and Production Engineering to meet the ever growing needs of Industry and Society by imparting highest knowledge and skill.

### MISSION

Committed to provide conducive academic environment with good curriculum and state-of-the-art teaching learning methods. Promote research culture, industry-institute interaction, and entrepreneurial skills, along with co-curricular and extra-curricular activities.

### FDP/STTP/SEMINAR/WEBINAR/CONFERENCE ATTENDED

#### Dr. N. Nagesha: Professor & Chairman

- Attended and worked as a **Jury member** upon invitation in the evaluation of "50th Rashtriya Bal Vaignanik Pradarshini:2023", held at the **Kendriya Vidyalaya**, Avaragolla, Davanagere, Karnataka, On 18th April, 2023
- Attended One Day **Orientation Programme** for "**Translators and Reviewers on Technical Book Writing in Regional Language Kannada**", Organized by Visvesvaraya Technological University,

Belagavi at VTU CPGS, Muddenahalli, Chikkaballapur District, on 15th December, 2022

- Attended One Day **Symposium** on "**Urban Climate Change and Sustainability**" Organized Jointly by Davanagere Smart City Limited, Davanagere, and Department of Civil Engineering: University BDT College of Engineering, Davanagere (UBDTCE) on 25th February, 2022

#### Prof. M. H Divakar: Asst.Professor

- Attended **National level off line FDP** on "**Open source software and tools for modern Teaching**" Sponsored by VGST Govt. of Karnataka and held at GEC, Haveri during 18th to 21st April, 2022.
- Attended "**One week Yoga Programme for all**" in commemoration of International Yoga Day held at the University BDT College of Engineering, Davanagere, during 16th to 21st June, 2022.

#### Dr. Vinay K.M: Guest Faculty

- Attended **One week Faculty Development Programme** on "**Open Source Software Tools for Modern Teaching**" organized by Vision Group of Science and Technology-Karnataka, held at Government Engineering College, Haveri from 18-04-2022 to 21-04-2022.



- Attended **Three days Workshop on “IOT & Mobile Application Development”** conducted by the department of Computer Science & Engineering in association with Appzenith Software Solutions and Inspire Infotech, held at STJIT Ranebennur from 16-06-2022 to 18-06-2022.
- Attended **One day Workshop on “Low Carbon Energy Buildings”** organized by Davanagere Smart City Limited and Department of Studies in Civil Engineering, University BDT College of Engineering, Davanagere on 01-07-2022.
- Attended **One week Faculty Development Programme on “Intelligent Schemes for Cyber Security”** Sponsored by AICTE under AICTE Training & Learning (ATAL) Academy, organized by Department of Computer Science and Engineering, University BDT College of Engineering, Davanagere during 12-09-2022 to 16-09-2022.
- Attended **Two days Entrepreneurship Development Programme on “Importance of Entrepreneurial Mindset Among Students”** organized by Department of Studies in Mechanical Engineering, University BDT College of Engineering, Davanagere during 2nd and 3rd May 2023.
- Attended **One week Faculty Development Programme on “Open Source Software Tools for Modern Teaching”** organized by Vision Group of Science and Technology-Karnataka, held at Government Engineering College, Haveri from 18-04-2022 to 21-04-2022.

#### Mr. Shashidhara P. S: Guest Faculty

- Attended **One week Faculty Development Programme on “Open Source Software Tools for Modern Teaching”** organized by Vision Group of Science and Technology-Karnataka, held at Government Engineering College, Haveri from 18-04-2022 to 21-04-2022.
- Attended **One day Workshop on “Low Carbon Energy Buildings”** organized by Davanagere Smart City Limited and Department of Studies in Civil Engineering, University BDT College of Engineering, Davanagere on 01-07-2022.

#### Ms. Swetha K.V: Guest Faculty

- Attended **One week Faculty Development Programme on “Open Source Software Tools for Modern Teaching”** organized by Vision Group of Science and Technology-Karnataka, held at Government Engineering College, Haveri from 18-04-2022 to 21-04-2022.

#### Mr. Veeresh R. B: Guest Faculty

- Attended **One week Faculty Development Programme on “Open Source Software Tools for Modern Teaching”** organized by Vision Group of Science and Technology-Karnataka, held at Government Engineering College, Haveri from 18-04-2022 to 21-04-2022.

#### Ms. Latha B.R: Guest Faculty

### PUBLICATIONS: Dr. N. Nagesha: Professor & Chairman

- P. S Shashidara, **N. Nagesha**, Badagi Raghavendrachari (2022), “Estimation of Production Function for a Rice-Mill Industry”, International Journal of Darshan Institute on Engineering Research & Emerging Technologies (IJDI-ERET), Vol.11, No. 1, January-June 2022, pp. 13-18, Web: <http://www.ijdieret.in/IJDI-ERET/Journal-Issues/June-2022-Vol-11-No-1> (ISSN: 2320-7590 (Print); ISSN 2583-3863 (Online); Impact Factor:7.637)
- P. S Shashidara, **N. Nagesha**, Badagi Raghavendrachari (2022), “Estimation of Environmental impact from Rice Mill cluster”, International Journal of Darshan Institute on Engineering Research & Emerging Technologies (IJDI-ERET), Vol.11, No. 1, January-June 2022, pp. 19-23, Web: <http://www.ijdieret.in/IJDI-ERET/Journal-Issues/June-2022-Vol-11-No-1> (ISSN: 2320-7590 (Print); ISSN 2583-3863 (Online); Impact Factor:7.637)
- Arjuna C and **N. Nagesha**, “Estimation of Sustainable Development Index for Commercial Sector of a Corporate City”, International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Vol. 4, Issue. 10, October 2022, pp. 733-738, Web: <http://www.ijdieret.in/IJDI-ERET/Journal-Issues/June-2022-Vol-11-No-1> 1 (eISSN: 2582-5208; Impact Factor:6.752) ([https://www.irjmets.com/uploadedfiles/paper//issue\\_10\\_october\\_2022/30622/final/fin\\_irjmets1665716553.pdf](https://www.irjmets.com/uploadedfiles/paper//issue_10_october_2022/30622/final/fin_irjmets1665716553.pdf))
- P. S Shashidara, **N. Nagesha**, Jangali Satish G (2022), “Sustainable Development of Agro-Based Industries: An Overview”, International Journal of Business and Management Invention (IJBMI), Vol.11, Issue 12, December 2022, pp. 60-64, Web: [https://www.ijbmi.org/papers/Vol\(11\)12/111126064.pdf](https://www.ijbmi.org/papers/Vol(11)12/111126064.pdf) (ISSN (Online): 2319-8028; ISSN (Print): 2319-801X; (Impact Factor: 4.72) DOI: 10.35629/8028-11126064

### Prof. M. H Divakar: Asst.Professor

- “Experimental Investigations On Dry Sliding Wear Behaviour Of Aluminium Based Hybrid Metal Matrix Composites” in the International Research Journal of Modernization in Engineering Technology and

Science, Volume:04/Issue:02/February-2022 ( ISSN: 2582-5208)

- “Study on effect of reinforcement particles on mechanical properties of aluminium alloy metal matrix composites” in the International Research Journal of Modernization in Engineering Technology and Science Volume:04/Issue:09/september-2022 (ISSN: 2582-5208)
- “Study on effect of stirring speed during fabrication of aluminium alloy metal matrix composites”, in the International Research Journal of Modernization in Engineering Technology and Science Volume:04/Issue:09/september-2022 (ISSN: 2582-5208)

#### Dr. Vinay K.M: Guest Faculty

- **Vinay K M.**, M Prasanna Kumar (2022), “Mechanical characterization and static analysis of fibre based hybrid composite multi leaf spring” Materials Today Proceedings, Elsevier publications, 2214-7853/2022, <https://doi.org/10.1016/j.matpr.2021.10.489>
- **Vinay K M.**, M Prasanna Kumar (2022), “Characterization of E-Glass Fibre and Silk Fibre Hybrid Composites” AIP Publications. (Accepted for publication).
- Sunil Nayak, M. Prasanna Kumar and **Vinay K M** (2023), “A Review on Recent Development in Advanced Composite Marine Propellers” International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653; IC Value: 45.98, Volume 11 Issue I Jan 2023, <https://doi.org/10.22214/ijraset.2023.48614>

#### Shashidhara P. S: Guest Faculty

- **P. S Shashidara**, N. Nagesha, Badagi Raghavendrachari (2022), “Estimation of Production Function for a Rice-Mill Industry”, International Journal of Darshan Institute on Engineering Research & Emerging Technologies (IJDI-ERET), Vol.11, No. 1, January-June 2022, pp. 13-18, Web: <http://www.ijdieret.in/IJDI-ERET/Journal-Issues/June-2022-Vol-11-No-1> (ISSN: 2320-7590 (Print); ISSN 2583-3863 (Online); Impact Factor:7.637)
- **P. S Shashidara**, N. Nagesha, Badagi Raghavendrachari (2022), “Estimation of Environmental impact from Rice Mill cluster”, International Journal of Darshan Institute on Engineering Research & Emerging Technologies (IJDI-ERET), Vol.11, No. 1, January-June 2022, pp. 19-23, Web: <http://www.ijdieret.in/IJDI-ERET/Journal-Issues/June-2022-Vol-11-No-1> (ISSN: 2320-7590 (Print); ISSN 2583-3863 (Online); Impact Factor:7.637)
- **P. S Shashidara**, N. Nagesha, Jangali Satish G (2022), “Sustainable Development of Agro-Based Industries: An Overview”, International Journal of Business and Management Invention (IJBMI), Vol.11, Issue 12,

December 2022, pp. 60-64, Web: [https://www.ijbmi.org/papers/Vol\(11\)12/111126064.pdf](https://www.ijbmi.org/papers/Vol(11)12/111126064.pdf) (ISSN (Online): 2319-8028; ISSN (Print): 2319-801X; (Impact Factor: 4.72) DOI: 10.35629/8028-11126064

#### Ph.D. GUIDANCE:

- Six Research Scholars are currently working for their Ph.D. under the Guidance of Dr. N.Nagesha.
- Prof. M H Divakar is pursuing Ph.D. on materials and Design in VTU, Under the guidance of Dr. S. Basvarajappa, and is in the final stage of its completion.
- Shashidhara P.S Guest Faculty & Ph.D. Research Scholar under Dr. N. Nagesha, is working on “Sustainable Development Challenges: An Empirical Study of Two Agro-Based Industrial Clusters” and has successfully completed Open Seminar-I on 13-01-2022 and Open Seminar-II on 07-06-2023.
- Veeresh R.B Guest Faculty is pursuing Ph.D. on “Machining Characterization of Al 8081-SiCP Metal Matrix Composites Through Wire-Cut Electro Discharge Machining”

#### Ph.D. AWARDED

- Till date, **Six Research Scholars** have completed their Ph.D. under the Guidance of **Dr. N.Nagesha**.
- **Dr. Vinay K. M.**, Guest Faculty, has obtained Ph.D. from VTU on February 24<sup>th</sup> 2023, for his thesis on “Fabrication and Characterization of Fibre Based Hybrid Composite Leaf Spring for Automobile Application” Under the guidance of Dr. M. Prasanna Kumar.

#### EXPERT LECTURES OR INVITED LECTURES/TALKS

##### a) Dr. N. Nagesha: Professor & Chairman

1. As a **Chief Guest and Resource Person**, Delivered a Technical talk on “**Creativity for Engineers**” at the Workshop of ISTE Student Chapter, Organized by Government Polytechnic, Harapanahalli, on 1st June, 2023.
2. As a **Chief Guest, Delivered a Technical talk on “Need for Energy Conservation and Importance of Road Safety”** on the occasion of Inauguration of “Fuel Conservation Month (16<sup>th</sup> Jan 2023- 15<sup>th</sup> Feb 2023)” and Valedictory of “Road Safety Week (11<sup>th</sup> Jan 2023- 17<sup>th</sup> Jan 2023)”, Organized by Davanagere Division of Karnataka State Road Transportation Corporation (KSRTC) at Davanagere (held on 17<sup>th</sup> January, 2023).
3. As a Resource Person delivered a technical talk on the topic “The Dynamic Class Rooms: What, Why, and How?” in the Student Induction Program (SIP) for First Year Students of UBTDCE”, Organized at UBTDCE during 1st-10<sup>th</sup> December, 2022 (Session was on 3<sup>rd</sup> December, 2022).

4. As an Invited Speaker, Delivered a Technical Talk On “NEP-2020: The Role Of Teachers” and Participated in the subsequent Panel Discussion, Organized by G.M. Institute of Technology, Davanagere, On the occasion of Teacher’s Day “Shikshak Parv-2022” (On 8<sup>th</sup> September, 2022)
5. As a Resource Person, Delivered a Technical Talk titled “Overview on Energy Management and Sustainable Development” in the One Day Workshop on “New and Renewable Sources of Energy (NRSE)”, Organized by the Renewable Energy Club, Department of Mechanical Engineering, at NMAM Institute of Technology, Nitte, Karkala (On 22<sup>nd</sup> August, 2022)
6. As a Resource Person, Delivered a Technical Talk on “Energy, Environment, and Sustainable Development: An overview” in the DSCL Sponsored One Day Workshop on “Low Carbon Energy Buildings”, Organized Jointly by the Department of Civil Engineering, UBDTCE, and Davanagere Smart City Limited, at R& D Centre, UBDTCE, Davanagere (On 1<sup>st</sup> July, 2022)



**b) Prof. M.H. Divakar: Asst. Professor**

1. As Invited chief guest in “Ambedkar Jayanti” delivered a talk on “Dr.Baba Saheb Ambedkar” at the University BDT College of Engineering, Davanagere on 14th April, 2023
2. As an invited motivational speaker delivered a “Motivational Talk” in Student Induction Program (SIP) for First Year Students of UBDTCE”, Organized at UBDTCE during 1st-10th Dec. 2022



## AICTE ACTIVITIES BY THE STUDENTS

The final year batch of 2022-23 students have undergone internship training at Southern Railways, Mysore, JIT Technologies, Bangalore, GTTC, Haihar, and Ace Designers, Bangalore. Further, the final year batch of 2023-24 students are undergoing internship training at GTTC, Haihar, Velkast Foundries, Guttur, Harihar, PVC Pumps Pvt. Ltd., Davanagere, and Samruddhi Sales and Services Kolhapur. As a part of "Social Connect and Responsibility" the students of second year I&P Engineering planted Mango trees in the department lawn and nurturing it. In addition, they visited agricultural field and studied harvesting Machines. As a part of "Inter/Intra Institutional Internship", Students of the Department have done Five Major Activities Viz.,

- 1) Study and report on an Ancient Indian Scholar.
- 2) Visit and report of at least Two Industrial plants.
- 3) Create and compile at least 10 Photographs on their own connected to a theme.
- 4) Create a present a PPT on a Technical Topic of their choice.
- 5) Participate in an essay writing competition on the topic "NEP 2020"

## FORUM ACTIVITIES AND SPORTS ACTIVITIES:

The department has the "Forum of Industrial & Production Engineering (FIP)" right from its inception to support and nurture the co-curricular and extra-curricular activities of its students. Various activities are conducted under the banner of FIP to promote the all round development of the student community of the department. The programmes conducted include soft skill development activities like Technical Essay writing Competitions, Technical Debates, Group Discussions, Mock Interviews, PPT presentations, Motivation Lectures, Video Presentations, Expert Lectures, Industrial Visits, etc.

## DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

### VISION

Organization of excellence, leveraging human potential in management for a better tomorrow

### MISSION

- To nurture scientific temperament with intellectual stimulation.
- To inculcate a sense of life-long learning.
- To excel in academic and research endeavours.
- To collaborate with institutions and industries for excellence
- To facilitate employ-ability, entrepreneurial ability with social responsibility

### EVENTS

"WORK SHOP ON PROJECT REPORT AND PLAGIARISM"

The department students Akhilesh M & Rakshitha S.B, under the guidance of Faculty **Dr. Vinay K. M.** presented a **technical paper** on "Artificial Intelligence in Manufacturing" in the event "SUKALPA" at GMIT, Davanagere on 21<sup>st</sup> June 2023, and won the **First Prize**.

During the year 2022-2023, Under FIP, Students visited Bannikodu, a village in the neighboring Harihar Taluk and Obtained firsthand knowledge through field visits about waste management and drip irrigation systems. Additionally students indulged in:

- Conducting Awareness on road accidents and information on traffic rules to rural students.
- COVID-19 Pandemic Awareness to rural schools.
- Awareness about Swachh Bharat in public gardens.

The FIP also conducts different sports activities annually. The winners in the competitions are awarded prizes in the FIP Valedictory function. **Srinavitha T**, a student of 4<sup>th</sup> Semester has won the **Second Prize** in the Shot Put event in the **VTU 24<sup>th</sup> Inter Collegiate State Level Athletic Meet** (held at VTU during 21<sup>st</sup> – 24<sup>th</sup> May, 2023). Further, the department students have actively participated and won prizes in Sports & Cultural activities in CHAITRA 2023 and are also active in NSS and NCC activities of the College.

## SPONSORED PROJECTS:

The students of the department have so far submitted 6 projects to **KSCST** for funding and obtained the grant for one Project titled "**Design and Fabrication of Fatigue Testrig**", under the guidance of **Dr. Vinay K M & Shashidhar P S.**

On **21/02/2022** this event was conducted in the presence of Mr. Amogh (VTU Resource person) to guide the first year MBA students for the future projects which also included providing the information about the Drill Bit software for the verification of plagiarism.

## "OPEN SEMINAR"

On **12/03/2022** this event was held under the guidance of HOD **Dr. T. Manjunatha** to enhance the presentation skills of the students by assigning the various topics.

## "TECHNOLOGY AND OPERATIONAL STRATEGY"

On **20/12/2022** this event was held under the presence of Dr. C. G. Srinivas (Associate professor) and **Mr. Rakesh** was the coordinator for this event.

### "BUSINESS QUIZ"

On 22/12/2022 this event was conducted by Mrs.Sagari and Mrs.Amrutha E. N (First year MBA students) under the guidance of **Dr.T. Manjunath** at Swami Vivekananda Hall.

### "EMPOWER YOUR FUTURE: MASTERING ESSENTIAL EMPLOYABILITY SKILLS"

For MBA 3rd semester students on 5/1/23 under the topic of " How to enhance employability skills" has been held in the presence of Dr Prakash k (chairman of life celebrations, chairman meet to grow, corporate trainer, keynote and motivation speaker). Which was organised by student coordinator's **Mr Chetan kumar** and Mr Pradhyumna Nadig, Under the guidance of **Dr T Manjunatha** (Professor and HOD of MBA department) and **Sri. Manjunatha R S** (Guest Lecturer)

### "MASTERING WEALTH: NAVIGATING FINANCIAL MARKETS AND MUTUAL FUNDS FOR OPTIMAL INVESTMENT PLANNING"

Investors meet on the topic of "**Investment planning with financial Markets and Mutual funds**" is a three days program organised by the department of MBA from 28/1/23 to 30/1/23 to create awareness on Optimizing investment strategy through diversified portfolio of mutual funds, leveraging insights from financial markets for long-term growth.

### MAXIMIZING PROFITS: NAVIGATING INCOME FROM CAPITAL GAINS

"**Income from capital gains**" on this topic a seminar has been held by department of MBA which was presented by Dr Suhas S (professor of finance,HOD,Jain institute of technology,Davanagere) a seminar is coordinated by student organizers Mr Basavaraj and Mr Pradhyumna under the guidance of **Priya M M** (Guest Lecturer) Highlights of the session are: capital gains income trends, offering insights into financial gains from the sale of assets or investment.

### "ART OF LIVING" ON 3/8/23

Under the guidance of UGC a session of meditation and yoga has been organised by the team of the Art of living the "Art of Living" newsletter encapsulates recent mindfulness workshops, yoga sessions, and wellness talks. Readers gain holistic insights, practical tips, and event updates for enriched living.

### UNLOCKING SUCCESS: B2B MARKETING MASTERY SEMINAR

A session on B2B marketing was held on 7/8/23 at MBA department where students showcased their ideas and marketing skills regarding products and services. Our recent B2B marketing lecture explored strategies and trends in business-to-business marketing. Experts shared insights on targeting, relationship-building, and digital tools. Attendees gained valuable perspectives for competitive advantage.



### Department of MBA and Dr. T. Manjunatha's

- ✚ Dr. T. Manjunatha, Professor, Dept. of MBA, VTU has nominated as Member, Academic Senate, VTU for three years period from 2022 to 2025. Hon'ble VC Letter dated 24.6.2022.

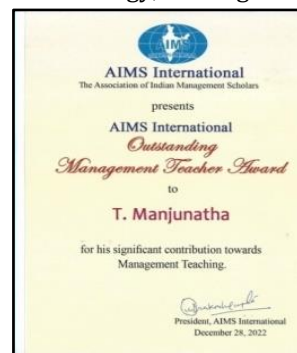


- ✚ 2.Dr. T. Manjunatha, Member, Academic Senate, VTU invited as Chief Guest for UBDTCE Chaitra inaugural function on 19.5.2023.



- ✚ Dr. T. Manjunatha received "Outstanding Management Teacher Award" from AIMS International,USA during 20<sup>th</sup> AIMS International Conference held at IIM, Kozhikode on 28<sup>th</sup> December, 2022.
- ✚ Dr. T. Manjunatha guided Smt. Shruthi M P research scholar received Ph D Convocation Certificates from VTU on 23.3.2023.

- ✚ Dr. T. Manjunatha delivered special lecture on “Universal Human Values” to first year BE Students, UBDTCE during Induction Program on 9.6.2023
- ✚ Dr. T. Manjunatha delivered special lecture on “Time Management” to first year BE Students, UBDTCE during Induction Program on 9.12.2022
- ✚ Dr.T.Manjunatha delivered special lecture on “Employability Skills” to first year MBA Students, Govt First Grade College, Davangere during Induction Program on 27.2.2023
- ✚ Manjunatha. T (2022), “Determinants of Value of Firm for Infrastructure Industry: An Empirical Examination In India”, Asian Journal of Advances in Research, 13/2, 9-15.
- ✚ Manjunatha. T and S Keerthi (2022), “Financing Pattern and Determinants of Financing Pattern of Pharmaceutical Industry: An Empirical Analysis in India”, Asian Journal of Advances in Research, 14/3, 12-19.
- ✚ Manjunatha. T (2022), “An Empirical Analysis of Determinants of Financing Patterns for Infrastructure Sectors in India”, Journal of Management & Entrepreneurship, 16/1(IV), 42-52.
- ✚ Rajeshkumar V and Manjunatha. T (2022), “Analysis of Determinants of Financial Performance for Construction Industry in India”, AIMS International Journal of Management, 15/3, 157-168. DOI: 10.26573/2021.15.3.2
- ✚ T. Manjunatha and Zahid Hassan Kharur (2022), “Effects of Budget Announcement on Stock Prices in the Indian Context”, Asian Journal of Management, 14/1, 57-64. DOI: 10.52711/2321-5763.2023.00010.
- ✚ Zahid Hassan Kharuri, T. Manjunatha and Rajeshkumar V (2022), “Stock Price Reactions to Budget Announcement in Indian Capital Market”, International Journal of Science and Management Studies, 4/6, 59-69. DOI: 10.51386/25815946/ijms-v4i6p107.
- ✚ Department of MBA, University BDT College of Engineering, Davangere has organised an event titled “Enhancing Employability Skills for Career Development” on 5.1.2023 . The resource person Dr.Prakash K, Chairman, Life Celebration, Bangalore
- ✚ Department of MBA, University BDT College of Engineering, Davangere has organised an event titled “Strategic Management” on 24.9.2022. The resource person Dr.Gururaj G. Phatak, Assistant Professor, Kirloskar Institute of Advance Management Studies, Harihar.
- ✚ Department of MBA, University BDT College of Engineering, Davangere has organised an event titled “Direct Taxation”, on 24.2.2023. The resource person Dr.Suhas D, Associate Professor & HOD, Jain Institute of Technology, Davangere.



## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

### VISION

To be recognized as a Centre of Excellence imparting quality education and creating new opportunities for students to meet the challenges of technological development in Computer Applications.

### MISSION

- To promote technical proficiency by adopting effective teaching learning processes.
- To provide environment & opportunity for students to bring out their inherent talents for all round development.
- To promote the latest technologies in Computer Science & Applications and across disciplines in order to serve the needs of Industry, Government, Society, and the Scientific community.
- To educate students to be successful, ethical , effective problem-solvers and life-long learners who will contribute positively to the society.

### EVENTS

#### Dr. Harish B G

1. One week In-house Workshop on “Python Programming for IT Engineering Branches” in co-

ordination with CS & E Department for the staff of our college. Convenors are Dr. Shreedhara K S, **Dr. Harish B G** and Co-ordinators are Smt. Kavitha G. and Mr. Srinivasulu M from 28th November to 6th December 2022. Resource persons are Mr. Naveen Kumar B, Dr. Shreedhara K S, Smt. Kavitha G, Smt. Veena B, Kum. Ashwini C, Md. Irshad Hussain B, Dr. Harish B G, and Mr. Srinivasulu M.



2. **Dr. Harish B G** has contributed as a Resource Person Delivered for the FDP on “Python Programming for IT Engineering Branches” (22PLC15B/25B) Phase-1 on “File structure and Reading files in Python” on 05/12/2022.

### Mr. Md. Irshad Hussain B. has participated in the following curricular activities:

1. A Webinar on "Open Source Tools for Research and Development", conducted by SJC Institute of Technology, Chickaballapur on 05-02-2022.
2. Online FDP on "Intelligent Schemes For Cyber Security" in Online (05-09-2022 to 10-09-2022) - offline (12-09-2022 to 16-09-2022) mode, conducted by University BDT College of Engineering Davanagere.
3. One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications", conducted by VTU, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (from 13-03-2023 to 17-03-2023).
4. One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Web Programming", conducted by VTU, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (from 27-03-2023 to 31-03-2023).
5. One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Internet of Things (IoT)", conducted by VTU, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (from 17-04-2023 to 21-04-2023).

One Week AICTE-VTU Joint Teachers Training Programme on "Robotics & Artificial Intelligence", conducted by VTU, Centre for PG Studies

### Paper published by

- **Md. Irshad Hussain B.**, and Mohammed Rafi, "A Secured Biometric Authentication with Hybrid Face Detection and Recognition Model", International Journal of Intelligent Engineering and Systems, Vol.16, No.3, pp.48-61, 2023. DOI: 10.22266/ijies2023.0630.04
- **Md. Irshad Hussain B.**, and Mohammed Rafi, "Online Financial Transactions in India: A Study of Its - Significance, Frauds and Security Models to Counter Frauds", International Journal of Intelligent Engineering and Systems, Vol.16, No.3, pp.455-469, 2023. DOI: 10.22266/ijies2023.0630.36
- As a Resource Person Delivered for the FDP on **Introduction to Python Programming** (22PLC15B/25B) Phase-1 on "Manipulating strings" on 03/12/2022.
- Worked as Faculty Coordinator for NEP Programme and Udyoga Mela(Job Fair), Panchamasali Peeta, Shivamogga Road, Harihara, from 23-04-2022 to 24-04-2022

### Mr. Srinivasulu M

#### Mr. M Srinivasulu. has participated in the following curricular activities:

1. A Webinar on "**Image & Statistical Analysis using Open Source Tools**", conducted by National Institute of Engineering, Mysuru on 20-07-2022.
2. AICTE Training and Learning (ATAL) Academy Blended/Hybrid FDP on "**Intelligent Schemes for Cyber Security**" in Online (05-09-2022 to 10-09-2022) - offline (12-09-2022 to 16-09-2022) mode,

conducted by University BDT College of Engineering Davanagere.

3. One week Inhouse Workshop on "**Python Programming for IT Engineering Branches**" in co-ordination with CS & E Department for the staff of our college. Convenors are Dr. Shreedhara K S, Dr. Harish B G and Co-ordinators are Smt. Kavitha G. and **Mr. Srinivasulu M** from 28th November to 6th December 2022. Resource persons are Mr. Naveen Kumar B, Dr.Shreedhara K S, Smt. Kavitha G, Smt. Veena B, Kum. Ashwini C, Md. Irshad Hussain B, Dr. Harish B G, and Mr. Srinivasulu M.



4. **Mr. Srinivasulu M** has contributed as a Resource Person Delivered for the FDP on "**Python Programming for IT Engineering Branches**" (22PLC15B/25B) Phase-1 on "Writing files in Python" on 06/12/2022.

### Papers published by:

- **M Srinivasulu**<sup>1</sup>, G Shivamurthy<sup>2</sup> and B Venkataramana<sup>3</sup>, published a paper entitled on "Quality of service aware energy efficient multipath routing protocol for internet of things using hybrid optimization algorithm," *Multimedia Tools and Applications*, Volume 82, Issue 3, Kluwer Academic Publishers, part of Springer Nature January 2023. <https://doi.org/10.1007/s11042-022-14285-x>, Indexing: Scopus Indexed Journal (Q1).
- **M Srinivasulu**<sup>1</sup>, Dr. Shiva Murthy G<sup>2</sup>, published a paper entitled on "Routing Overhead Aware Optimal Cluster based Routing Algorithm for IoT Network using Heuristic Technique," *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 14, No. 2, 2023, pp. 55-64. <http://www.ijacsa.thesai.org/DOI:10.14569/IJACSA.2023.0140207> Indexing: Scopus Indexed Journal (Q3).
- One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications", conducted by VTU, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (from 13-03-2023 to 17-03-2023).
- One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Web Programming", conducted by VTU, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (from 27-03-2023 to 31-03-2023).

## DEPARTMENT OF BASIC SCIENCES

### DEPARTMENT OF MATHEMATICS

Dr. Mohan Babu V was awarded Ph.D degree by Visvesvaraya technological University Belagam, on 23<sup>rd</sup> Feb 2023 **under the guidance** of **Dr. Mahesh**, associate professor, department of mathematics. The title of the thesis is "Study of three dimensional boundry layer flow for Non-Newtonian fluids"

Dr. Ravindra p was awarded Ph. D degree by Visvesvaraya technological University Belagam, on 23<sup>rd</sup> Feb 2023 **under the guidance** of **Dr. Mahesh**, associate professor, department of mathematics. The title of the thesis is "Computational studies of natural convention heat transfer in non rectangular enclosures"

Dr. Rajendra prasad K C was awarded Ph. D degree by Visvesvaraya technological University Belagam, on 4<sup>th</sup> Jan 2022 **under the guidance** of **Dr. Niranjan K. M**, associate professor, department of mathematics. The title of the thesis is "A study on middle graph of a graph"

### DEPARTMENT OF PHYSICS

Dr. Gurusiddesh M was awarded PhD degree by VTU Belagavi on 23<sup>rd</sup> Feb-2023. He did research under the guidance of **Dr. G. J Shankaramurthy** on the topic "Synthesis, charactrization and magnetic studies on polymer/Ferrites Nano-composites for EMI shielding applications"

### DEPARTMENT OF CHEMISTRY

The Department of Chemistry of UBDTCE has three Professors and one Associate Professor.

**Dr. S Manjappa, Professor of Chemistry and Dean R & D, UBDTCE, Davangere.**

### PUBLICATIONS

1. Harshavardhana A., Prakash K K.,Raghavendra, **Manjappa Sidlinganahalli**. Santhosh Bullapuramatt. 2022. Electrochemical Determination of Dopamine in Presence of Uric acid at Eucalyptus oil (Eu-o) Modified Carbon Paste Electrode: A cyclic Voltammetric study. Annals of R.S.C.B.ISSN:1583-6258.Vol.25,Issue 4,Pages.20416-20436.
2. Santhosh Kumar R., Isha Soni., **Manjappa S.**, Gururaj Kudur Jayaparakash., Roberto Flores-Moreno., Chandrashekar Banankere Nabjegowda.Sept.2022. A Fukui Analysis of argenine modified carbon surface for the electrochemical sensing of dopamine.Materials.2022,15, 6337.IF-3.748(ISSN1996-1944),Pages:1-.MDPI. 10th September. 2022 Citescope 4.7 Scopus.
3. Harshavardhana A.,Santhosh Bullapuramatt,Ijaz khan.,K K Prakash., Maha Abdallah Alnuwaiser., V S Betageri and **Manjappa Sidlinganahalli**.2022.Synthesis of Tin oxide nanoparticles using Nelumbo nucifera leaves extract for electrochemical sensing of dopamine. International Journal of Modern physics B.

4. Kottureswara N M.,Jayashree., Dinesh ND and **S Manjappa**.Assessment of Flouride distribution and Ionic Balance in Ground water of Siruguppa Taluk, Ballari District,Karnataka,India-A CaseStudy.IJSART.,Volume,8,Issue,11.November2022. ISSN:2395-1052.
5. Vijaya,B., Harshavardhana., Chandrappa,C N., **Manjappa S** and Suresh B.2022.Diversity and Seasonal Variations of Zooplankton in Somalapura Water Tanks in Hosapete City.,Karnataka(India).International Journal of Economic Growth and Environmental Issues.Volume:10.Issue:9.November2022.ISSN:2321-6247
6. Bindu Pavan V., **S Manjappa**,MH Mohiuddin Khan.,Sachi HP., Suresh B.March April2022.Cyclic Dissimilarity in Physical-Chemical Variables in Groundwater Quality of Honnali Taluk,Davangere District,Karnataka,India. International Journal of Multidisciplinary Research and Growth Evaluation.03(02):533536.ISSN(online):2582-7138.

### Ph.D. GUIDANCE:

**PhD Guidance during 01-01-2022 to 30-06-2023: 01**  
**PhD Awarded during 1-01-2022 to 30-06-2023: 01**  
**Dr. B Vijaya, Professor and HOD of Chemistry, UBDTCE, Davangere**

### PUBLICATIONS

**Vijaya,B.**, Harshavardhana., Chandrappa,C N., Manjappa S and Suresh B.2022.Diversity and Seasonal Variations of Zooplankton in Somalapura Water Tanks in Hosapete City.,Karnataka (India).International Journal of Economic Growth and Environmental Issues.Volume:10.Issue:9.November2022.ISSN:2321-6247

### Dr. Suresha Kumara TH, Associate Professor

### PUBLICATIONS

1. A.J. Shadakshari, **T. H. Suresha Kumara** , H. B. V. Sowmya and A. J. Yamuna. (2022). Synthesis and antibacterial activity of novel 4-(5-phenylthiophen-2-yl) methyleneamino)-2-(phenylamino)methyl)-5-ethyl-2H-1,2,4- triazole-3(4H)- thione derivatives. Journal of Applicable Chemistry. International Peer Reviewed Journal. 2022, 11(3):344-350, ISSN:2278-1862
2. A.J. Shadakshari, **T. H. Suresha Kumara**, H. B. V. and A. J. Yamuna (26 January 2022). A Novel Synthesis of 1,2,3triazole Substituted Pyrimidine, Pyrazole by Using 1,2,3triazolchalcone. Journal of Pharmaceutical Research International. 34(5A): 55-66, Jan 2022 (Present in Web of Science on Jan 2022): British



- A.J. Shadakshari, **T.H. Suresha Kumara**, NaveenKumar, Jagadeep Chandra, K.M.Anil Kumar, RamithRamu, Synthesis, Characterization, and biocomputational assessment of the novel 3-hydroxy-4-(phenyl(pyridin-2-ylamino) methyl)-2-naphthoic acid derivatives as potential dual inhibitors of  $\alpha$ glucosidase and  $\alpha$ -amylase enzymes, Results in Chemistry, Volume 5, January 2023, 100745 (Scopus): Publisher:Elsevier. DOI: <https://doi.org/10.1016/j.rechem.2022.100745>

**Ph.D. GUIDANCE:**

- PhD Guidance during 01-01-2022 to 30-06-2023: Currently two Research Scholars (one Full time – Mrs. Mamatha DM, USN: 4UB15PGJ01 and one Part time – Mr. Raghavendra AV, USN: 4UB16PGJ05) are working for their PhD under the guidance.
- PhD Awarded during 01-01-2022 to 30-06-2023: Awarded one PhD to Dr. Shadakshari AJ (USN: 4UB15PGJ03) on the research topic “Synthesis and Biological Evaluation of New Nitrogen and Oxygen Heterocycles” on 24-06-2023, through VTU, Belagavi.

**PLACEMENT ACTIVITIES NEWS**

2021-2022 ನೇ ಸಾಲಿನಲ್ಲಿ ಕ್ಯಾಂಪಸ್ ಸಂದರ್ಶನದಲ್ಲಿ 60 ಕ್ಕೂ ಹೆಚ್ಚು ಕಂಪನಿಗಳಿಂದ ವಿವಿಧ ವಿಭಾಗಗಳಿಗೆ ಕ್ಯಾಂಪಸ್ ಸಂದರ್ಶನ ನಡೆಯಿತು.

2021-2022 ರ ಸಾಲಿನಲ್ಲಿ ಕ್ಯಾಂಪಸ್ ಸಂದರ್ಶನದಲ್ಲಿ 394 ಕ್ಕೂ ಹೆಚ್ಚು ವಿದ್ಯಾರ್ಥಿಗಳು ಅಯ್ಕೆಯಾಗಿದ್ದು 510 ಕ್ಕೂ ಹೆಚ್ಚು ಅವಕಾಶಗಳನ್ನು ಪಡೆದಿದ್ದಾರೆ. ಅಲ್ಲದೇ, ಭಾರತ ಸರ್ಕಾರದ ಉದ್ಯಮಿಗಳಾದ ಭಾರತ ಪೆಟ್ರೋಲಿಯಂ ಕಾರ್ಪೊರೇಷನ್ ಲಿಮಿಟೆಡ್ ಕಂಪನಿಗೆ ಕಾಲೇಜಿನ ಯಾಂತ್ರಿಕ ವಿಭಾಗದ ನಿಶಾಂತ್.ಎನ್. ಆತ್ಮನಿಕ್ ದಾವಿಲೆ ಮೊತ್ತದ 18.80 ಲಕ್ಷದ ವಾರ್ಷಿಕ ವೇತನ ಪಡೆದು ಅಯ್ಕೆಯಾಗಿದ್ದಾರೆ. ಭಾರತ ಸರ್ಕಾರದ ರಕ್ಷಣಾ ಸಚಿವಾಲಯದ ಉದ್ಯಮಿಯಾದ ಭಾರತ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಲಿಮಿಟೆಡ್, ಬೆಂಗಳೂರು ಕಂಪನಿಗೆ ಗಣಕ ಯಂತ್ರ ವಿಭಾಗದ 16 ವಿದ್ಯಾರ್ಥಿಗಳು 11.32 ಲಕ್ಷದ ವಾರ್ಷಿಕ ವೇತನ ಪಡೆದು ಅಯ್ಕೆಯಾಗಿದ್ದಾರೆ.

ಇವುಗಳ ಜೊತೆಗೆ ಪ್ರತಿಷ್ಠಿತ ಬಹು ರಾಷ್ಟ್ರೀಯ ಐಟಿ ಕಂಪನಿಗಳಾದ ಟಿಸಿಎಸ್-24, ವಿಪ್ರೋ-44, ಐಬಿಎಂ-03, ಎಲೆಟಿಟಿಎಸ್-55, ಹೆಚ್‌ಸಿಎಲ್-29, ಕ್ಯಾನ್ಸೆಲೆಟ್-34, ಇನ್ಫೋಸಿಸ್-8, ಕ್ಯಾಪ್‌ಜೆಮಿನಿ-14, ಸಾಸ್ಟೇ-4, ಕಿಕ್‌ಡ್ರಮ್-01, ಕೆಡನ್-01, ವರ್ಕ್‌ಫೋರ್ಸ್ ಸಾಫ್ಟ್‌ವೇರ್-03, ಬಾಯ್‌ಸನ್ ಸಾಫ್ಟ್‌ವೇರ್-23, ಆರ್‌ಬಿ ಸ್ಪೆಕ್ಟ್ರಾ-8, ಸ್ಪೀಯರ್ ಎಲೆಕ್ಟ್ರಿಕ್-6, ಎನ್‌ಟಿಟಿ ಡಾಟಿ-6, ಒಪನ್ ಟೆಕ್ನೊ-2, ಫಿಡಲಿಟಿ ಇನ್‌ಫಾರ್ಮೇಶನ್ ಸರ್ವಿಸ್ ಇಂಡಿಯಾ ಪ್ರೈವೇಟ್ ಲಿ.-3, ಹೆಕ್ಸಾವೆರ್-3 ಹಾಗೂ ಇನ್ನೂ ಮುಂತಾದ ಕಂಪನಿಗಳಿಗೆ ಅಯ್ಕೆಯಾಗಿದ್ದಾರೆ.

SL No	Pass out batch year	CE	ME	EE	EC	CS	EIE	IP	MCA	MBA	Total No. of students placed	Total No. Offers
1	2021-2022	12	78	42	59	100	29	09	44	21	394	510

2022-2023 ನೇ ಸಾಲಿನಲ್ಲಿ ಕ್ಯಾಂಪಸ್ ಸಂದರ್ಶನದಲ್ಲಿ 65 ಕ್ಕೂ ಹೆಚ್ಚು ಕಂಪನಿಗಳಿಂದ ವಿವಿಧ ವಿಭಾಗಗಳಿಗೆ ಕ್ಯಾಂಪಸ್ ಸಂದರ್ಶನ ನಡೆಯಿತು.

2022-2023 ರ ಸಾಲಿನಲ್ಲಿ ಕ್ಯಾಂಪಸ್ ಸಂದರ್ಶನದಲ್ಲಿ 325 ಕ್ಕೂ ಹೆಚ್ಚು ವಿದ್ಯಾರ್ಥಿಗಳು ಅಯ್ಕೆಯಾಗಿದ್ದು 412 ಕ್ಕೂ ಹೆಚ್ಚು ಅವಕಾಶಗಳನ್ನು ಪಡೆದಿದ್ದಾರೆ.

ಇವುಗಳ ಜೊತೆಗೆ ಪ್ರತಿಷ್ಠಿತ ಬಹು ರಾಷ್ಟ್ರೀಯ ಐಟಿ ಕಂಪನಿಗಳಾದ ಟಿಸಿಎಸ್-11, ಐಬಿಎಂ-02, ಜಿಯೋ ಫ್ಯಾಟ್ ಫಾರ್ಮ್ಸ್ ಲಿಮಿಟೆಡ್-05, ಹೆಚ್‌ಎಸ್‌ಡಬ್ಲ್ಯೂ ಎನ್‌ಬಿಎ ಲಿಮಿಟೆಡ್-06, ಟಿಕ್ ಪುನಿಂದ್ರಾ-02, ಹೆಚ್‌ಸಿಎಲ್-6, ಕ್ಯಾನ್ಸೆಲೆಟ್-13, ಯೂನಿಟಾ-07, ಪಪರ್ ರಿಸರ್ಚ್ ಡೆವಲಪ್‌ಮೆಂಟ್ ಕಾರ್ಪೊರೇಷನ್-03, ಎಸ್ ಎಲ್ ಕೆ ಸಾಫ್ಟ್‌ವೇರ್ ಲಿಮಿಟೆಡ್-06, ಬಾಯ್‌ಸನ್ ಸಾಫ್ಟ್‌ವೇರ್-3, ರಿನ್‌ಕ್ಯೆ ಟೆಕ್ನಾಲಜೀಸ್ ಲಿಮಿಟೆಡ್-36, ಸ್ಮಾರ್ಟ್ ಡೇ ಐಟಿ ಸರ್ವಿಸ್ಸ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್-09, ಆರ್‌ಬಿ ಸ್ಪೆಕ್ಟ್ರಾ-2, ಸ್ಪೀಯರ್ ಎಲೆಕ್ಟ್ರಿಕ್-1, ಕುಂದೂರು ಕನ್ಸ್ಟ್ರಕ್ಷನ್-10, ಕೆ ವೋಲಿಟಿ ಸರ್ವಿಸ್‌ಸ್-34, ಇಂಡೋ-ಮುಮ್-03, ಸ್ಪಾನ್ಸೆಡ್ ಇಂಜಿನಿಯರಿಂಗ್ ಲಿಮಿಟೆಡ್-07, ರಿಪಬ್ಲಿಕ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್-04 ಹಾಗೂ ಇನ್ನೂ ಮುಂತಾದ ಕಂಪನಿಗಳಿಗೆ ಅಯ್ಕೆಯಾಗಿದ್ದಾರೆ.

SL No	Pass out batch year	CE	ME	EE	EC	CS	EIE	IP	MCA	MBA	Total No. of students placed	Total No. Offers
1	2022-2023	19	58	63	86	71	34	16	55	01	325 (On going)	412

**Branch wise Placement details**

SL No	Pass out batch year	CE	ME	EE	EC	CS	EIE	IP	MCA	MBA	Total No. of students placed	Total No. Offers
1	2022-2023	19	58	63	86	71	34	16	55	01	325 (On going)	412+
2	2021-2022	12	78	42	59	100	29	09	44	21	394	510+
3	2020-2021	-	55	30	54	41	15	08	-	07	255	350
4	2019-2020	01	12	08	26	22	05	03	03	01	173	300
5	2018-2019	01	15	16	34	37	06	08	06	06	129	180

## N. S. S. NEWS

### N S S Unit Program Details:

Program Title	: <b>Yoga Competition</b>
Date of Conduction	: 19/06/2023 and 20/06/2023
Date	: 21-6-2023
Time	: 06:00 am to 07.30 am
Venue	: Sway Vivekananda Hal of the Institute
Organizing Committee	: NSS Unit
Participants	: Principal, Deans, HODs, faculty and PG and UG students, UBDTCE.
Venue	: Swamy Vivekananda Hall, UBDTCE.



Program Title	: <b>"Cancer Awareness Walkathon"</b>
Date of Conduction	: 04/02/2023
Venue	: University B D T college of engineering, Davanagere
Participants	: PG and UG students, UBDTCE.



Program Title	: <b>"Swatch Bharath Pakhwada initiation program"</b>
Date of Conduction	: 18/05/2023
Venue	: University B D T college of engineering, Davanagere
Participants	: PG and UG students, UBDTCE.



Program Title	: <b>"VANAMAHOTSAV"</b>
Date of Conduction	: 22/05/2023
Venue	: University B D T college of engineering, Davanagere
Participants	: Principal, Deans, HODs, faculty and PG and UG students, UBDTCE.



Program Title	: <b>"Anti-ragging Day"</b>
Date of Conduction	: 21/08/2023
Venue	: University B D T college of engineering, Davanagere
Participants	: Principal, Deans, HODs, faculty and PG and UG students, UBDTCE.



Program Title	: <b>"World Environmental day"</b>
Date of Conduction	: 05/06/2023
Venue	: University B D T college of engineering, Davanagere
Participants	: Principal, Deans, HODs, faculty and PG and UG students, UBDTCE.



## UBDT CO-OPERATIVE SOCIETY NEWS

The society was established in the year 1952 under the Karnataka State Co-operative Societies Act-1959 with Reg. No. ARC-481/1952-53, Dated 12th of September, 1952. The **“UBDT Engineering College Co-operative Society Ltd.”** endeavors to meet the requirements of students and staff of UBDTCE Campus. The accounts &

business transactions of the society are audited by the department of audit for co-operative societies in a regular interval. The current elected governing body of our college society is

<b>President</b>	<b>Dr. N Nagesha</b>	Prof.& Dean	Dept. of I & P Engineering
<b>Vice-President</b>	<b>Sri. R P Shashidhara</b>	Foreman	Dept. of E & E Engineering
<b>Secretary</b>	<b>Dr. H C Mouneswarachar</b>	Professor	Dept. of E & E Engineering
<b>Treasurer</b>	<b>Dr. N Manjanaik</b>	Professor	Dept. of E & C Engineering

### Directors: (Staff-Representation)

1	<b>Dr. Ravichandranayakar S N</b>	Associate Professor	Dept. of Mathematics
2	<b>Dr. B Lokeshappa,</b>	Associate Professor	Dept. of Civil Engineering.
3	<b>Smt. H T Farida</b>	Assistant Professor	Dept. of E & I Engineering
4	<b>Sri. Nagaraja U C</b>	FDA	Office of UBDTCE

### Directors: (Student-Representation)

5	<b>Mr. Bhuvan</b>	V Semester	Dept. of E & C Engineering
6	<b>Ku. Dhanuja D K</b>	V Semester	Dept. of E & E Engineering
7	<b>Ku. Harshitha</b>	III Semester	Dept. of E & E Engineering
8	<b>Ku. Shilpashri. D.S.</b>	V Semester	Dept. of I & P Engineering
9	<b>Ku. Shashikala. N. Pujar</b>	V Semester	Dept. of E & E Engineering

A special program to encourage the meritorious students of our college called **PRATHIBHA PURASKAR** was started by the society in the year 2019-20 and according to this scheme, the student who secured highest marks in his/her immediate previous year examinations conducted by university (Two previous semesters) will be identified among the students studying in different courses our college like B.E., M.Tech., MBA & MCA , are honoured during the Annual General Body Meeting of the society every year. The Annual General Body Meeting (AGM) will be normally held in the month of September of every financial year. The Society's flagship program PRATHIBHA PURASKAR-2021-22 was held on 26-12-22 & AGM on 24-9-2022. Some of the glimpses of the program photos are attached below.



## ETHNIC DAY

Ethnic day 2023 was celebrated on 30th may 2023 in the college premises. There were 9 student groups, one from each department. Each group represented a theme -Civil Engg. - re-creating retro India, Mech.Engg. - Tribal culture of India, E&E - Indian Mythology, E&C - Languages of India, CS&E - Religious celebrations of India, E&I - Indian instrumental music, IP - Glorious history of India, MBA - Indian festivals and MCA- Indian dance forms.

CS&E branch grabbed the first place in the above competition . E&E got the position of the runner-up.

On the occasion Shri. Ravindra Araliguppi, faculty member, college of fine arts, was the chief guest and the judge for the competition. He spoke to the students about the relevance of cultural festivals and celebrations like ethnic day should be encouraged in college campuses.

The people of India celebrate this vibrant and exuberant day by wearing ethnic clothing. Celebrated on June 19 every year, World Ethnic Day aims at celebrating different cultures and ethnic groups.



## CIVIL BRANCH THEME - RETRO

Retro style is imitative or consciously derivative of lifestyles, trends, or art forms from history, including in music, modes, fashions, or attitudes. In popular culture, the "nostalgia cycle" is typically for the two decades that begin 20–30 years ago.



## CSE BRANCH THEME - RELIGIONS

India is a melting pot of religions, with the majority of the population identifying with Hinduism (79.8%), and the rest of the country being split between Islam (14.2%), Christianity (2.3%), Sikhism (1.7%), Buddhism (0.7%), and Jainism (0.4%).



**EEE BRANCH THEME – HINDU MYTHOLOGY**

Hindu Mythology is the body of myths attributed to, and espoused by, the adherents of the Hindu religion, found in Sanskrit texts such as the Vedic literature, epics like Mahabharata and Ramayana, the Puranas, and mythological stories specific to a particular ethnolinguistic group like the Tamil Periya Puranam.



**MBA THEME – INDIAN FESTIVALS**

Indian people present several cultural festivals according to their own cultures. Basically the four major religion groups of India namely Hinduism, Islam, Christianity and Sikhism celebrate several colorful religious festivals in every year.



**WINNERS**



**RUNNERS**



## A BIRDS EYE VIEW ON CHAITRA – 2023, A COLLEGE FESTIVAL

May 19, 2023 Inaugural function 10:30 am.

Chaitra 2023, a cultural festival conducted by students association was inaugurated by **Shri R. T. Shrinivas**, vice president, JSW limited, Toranagallu, on May 19 2023 Friday morning at 10:30 am in the R & D Seminar hall.

On the occasion **Shri. Shrinivas** spoke that 'Atma Nirbhar Bharat' , 'Make in India' are taking our nation towards becoming strong economically and aiding development. People of Japan give importance to time management and that is why Japan is an advanced nation. Every Indian should inculcate time management and attend to their duties on time.

VTU EC member Dr.Prasad B Rampure, Principal, Dr. D.P.Nagarajappa, Proctor , Dr. B.N.Veerappa, VTU academic senate members Dr. T Manjunath, Dr D.Abdul Buden were present. Student association office bearers were present on the occasion.



May 19, 2023 Friday

Evening valedictory function

The valedictory function of Chaitra - 2023 student cultural festival was held on Friday evening May 19 2023. Function was conducted on the open stage in the playground. Vice chancellor **Dr. S. Vidyashankar** was the chief guest. Another guest, Pichalli Srinivas, popular singer and music director, was also present on the occasion. Principal, Dr. D.P. Nagarajappa, proctor of student association 2023, **Dr. B.N.Veerappa**, student association president Chetan, VTU EC member **Shri. G. Rakesh**, VTU academic members **Dr.T.Manjunath, Dr. D. Abdul Buden** and others were on the dias.

Dr Vidyashankar on the occasion spoke about the changing technology. He said "if you think today's technology will be present in the future also , it is your foolishness. Technology is changing fast . Hence students should update their knowledge and skills". He also stated that results are being announced within a week after the completion of exams. Results are being sent to the student's whatsapp and within one month markscards are being issued. All these should help students in getting good jobs.



Another guest Pichalli Srinivas, rendered some kannada folk songs to the great pleasure of the audience. On the occasion he spoke about the relevance of student festivals like Chaitra. These festivals reflect our cultural ethos.



.....in pursuit of excellence

