



UBDTCE MECHಸದ್ದಿ



Mechanical Engineering Department

2023-2025

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Dr. S B Mallur, Professor-Emeritus, Editor

Department of Studies in Mechanical Engineering

**University Brahmappa Devendrappa Tavanappanavar (BDT)
College of Engineering**



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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

The department has organized the following events:

1. Eye Checkup Camp

1. **Eye Checkup Camp** was conducted on 20th July 2023 under the banner Red Cross Society – University BDT College Unit.

2. Student Orientation Program

2. **Student Orientation Program** - Each One Teach One Program On “Automobile Engineering” Organized by the Department of Studies in Mechanical Engineering, University BDT College of Engineering, Davanagere - 577 004 on 13th and 14th December, 2023. Dr. S B Mallr, Professor coordinated the program.



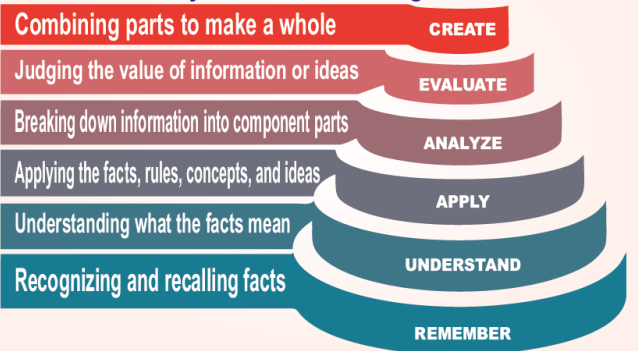
When it comes to the Each One Teach One Program, education is the key. All must believe that every individual has the power to educate and inspire others. That's how as volunteers develop the tools, we need to become effective educators. No one is too young or too old to learn and share their knowledge. Through Each One Teach One Program, everyone can come and build a brighter future together. "Each One Teach One" encourages the educated class to recognize their moral and social obligation to educate at least one illiterate person, which makes a significant contribution to society



UNIVERSITY B.D.T. COLLEGE OF ENGINEERING, DAVANAGERE

BLOOM'S TAXONOMY

Bloom's Taxonomy = Levels of Thinking



3. Entrepreneurship Development Program

Entrepreneurship Development Program for 2 days was organized on “Startup Companies: Ecosystem for setting up and growth”, was organized on 31st May 2024 to 01st June 2024.



This EDP was sponsored in memory of Late. Sri. S. DAKSHINA MURTHY, by his family members, a two Days Entrepreneurship Development Program (EDP), on, “START-UP COMPANIES: ECOSYSTEMS FOR SETTING UP & GROWTH” has been organized by the department of studies in Mechanical Engineering of University BDT College of Engineering on 31.05.2024 to 01.06.2024, to inspire & inculcate importance of entrepreneurial mindset among students.



The EDP receives the tremendous response and about 156 applications were obtained in a short period of time. Finally keeping the response and infrastructural constraints in mind 127 applications were selected for participations.



It is an immensely satisfying fact that all the 06 resources people identified, made it to the EDP and all the 08 sessions were held as per the schedule with very minimal changes. Wide range topics related to importance of entrepreneurial mindset among students were covered by eminent resource persons with diverse background. The sessions were conducted in very lively environment with total active participations of delegates.

Dr. S Basavarajappa, Professor, Chairman DOS in MED, Convener; Dr. Shekharappa B. Mallur, Professor, Coordinator & Organizing Secretary; Dr. Irappa Sogalad, Dr. S B Prakash, Dr. Mallikarjuna C, Dr. Vijaya kumar, Dr. C G Sreenivas were the worked as Co-Coordinators th program.

4. An industrial visit to Sharavathi Hydro Power Plant,

Mechanical Engineering 4th Semester B.E students along with Faculty members Nataraj K H, and Technical Staff Sri Govindappa D N, Instructor, visited An industrial visit to Sharavathi Hydro Power Plant, Jog Falls on 6th July 2024 was organized to 4th semester mechanical students as a part of curriculum.



5. Entrepreneurship Development Program

Idea generation is a methodical way of creating new and inventive ideas or solutions. It entails a wide variety of activities. Brainstorming concentrates on unimpeded thought without critique, while idea generation includes organized techniques that direct these thoughts toward actionable insights. This process comprises many steps, including ideas’ screening, where only the best ideas are selected. Comprehending the subtle differences between these two concepts is very important for any company committed to promoting an atmosphere of innovation.

Following topics were covered during the EDP



Steps to Building a Start-up from Scratch, How to launch a startup step by step, Business Idea Selection and Feasibility, Idea to action, Risk management strategy, Business Ideation & Feasibility Guide, Implementing Creative Challenge, Idea Sorting and Refinement, New Product Development Process, Key components of a feasibility study



The EDP was sponsored in memory of Late. Sri. S. DAKSHINA MURTHY, by his family members, a two Days Entrepreneurship Development Program (EDP), on, “Establishment of Start-Up Companies: Idea Generation and Technical Feasibility Studies” has been organized by the department of studies in Mechanical Engineering of University BDT College of Engineering on 09.05.2025 to 10.05.2025, to inspire & inculcate importance of

entrepreneurial mind-set among students.



Dr. S Basavarajappa, Professor, Chairman DOS in MED, Convener; Dr. Shekharappa B. Mallur, Professor, Coordinator & Organizing Secretary and all other staff members were worked as Co-Coordinators of the program.



6. An industrial visit

An industrial visit to Kaiga Nuclear Power Plant, Npcil, Karwar on 5th April 2025 was organized to 4th semester mechanical students.



Ph.D. AWARDED

Editorial board and all Faculty and staff members of the Mechanical engineering department congratulate following Research scholars for getting there Doctoral degree.

1. **Dr. M H Divakar** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi. on 18th July 2024 on topic titled "Investigation on effect of temperature on wear behavior of hybrid metal matrix composites under the guidance of **Dr S Basavarajappa**.

2. **Dr. Aravinda Pai** was awarded Ph.d degree by Visvesvaraya Technological University, Belagavi.on22nd March, 2024. He did research under the guidance of **Dr. Irappa Sogalad** on the topic titled "An investigation on mechanical properties of modified 9Cr 1Mo ferritic steel welds produced by hot wire and cold wire Gas Tungsten Arc Welding (GTAW) processes.
3. **Dr. Jhansi Lakshmi K P** was awarded Ph.d degree by Visvesvaraya Technological University, Belagavi. on 06th July, 2023. She did research under the guidance of **Dr. Irappa Sogalad** on the topic titled "Some studies on wear behaviour, surface and subsurface alteration of austenitic stainless steel
4. **Dr. S Basavarajappa** name was awarded Ph.d degree by Visvesvaraya Technological University, Belagavi.on 1st Aug, 2023. He did research under the guidance of **Prof. G. Manavendra and Prof. S B Prakash**, on the topic titled 'Experimental study of single phase heat transfer characteristics andpressure drop measurement in circular tubes fitted with fins'
5. **Dr. Ganesh T** name was awarded Ph.d degree by Visvesvaraya Technological University, Belagavi.on 7th March, 2024. He did research under the guidance of **Prof. S B Prakash**, on the topic titled 'Optimization of Biodiesel Production from mixture of Animal Waste Fat Oil, Cottonseed oil, Crude Rice Bran Oil and CI Engine Parameters for Different Biodiesel Blends'.
6. **Dr. Ajith B S** name was awarded Ph.d degree by Visvesvaraya Technological University, Belagavi.on 18th July, 2024. He did research under the guidance of **Prof. S B Prakash**, on the topic titled 'A Comparative Study on Optimization of Biodiesel Production from Mixture of Garciniagummi-gutta and Garcinia indica Seed oil using Conventional and Microwave Assisted Transesterification Process and their Effect on CI Engine'.
7. **Dr. Marulasiddesh H B** name was awarded Ph.d degree by Visvesvaraya Technological University, Belagavi.on 18th July, 2024. He did research under the guidance of **Prof. S B Prakash**, on the topic titled 'Experimental and Numerical Investigations of Heat Transfer Characteristics of Tube Heat Exchangers with Nanofluids'
8. **Dr. Ajaykumar K, MIT, Thandavapura** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 1-8-2023. He did research under the guidance of **Dr. Mallikarjuna C**, on the topic titled "Development and characterization of Aluminium 356 metal matrix hybrid composites reinforced by nanoaluminium oxide and molybdenum disulfide".
9. **Dr. Lingaraju S V** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 7-3-2024. He did research under the guidance of **Dr. Mallikarjuna C**, on the topic titled "Investigation of

mechanical properties and wear behavior of Aluminium Metal Matrix Reinforced with Nano particles”.

10. **Dr. Harsha H M** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 01-09-2023. He did research under the guidance of **Dr. K G Satish**, on the topic titled “Experimental Investigation on fracture behaviour of epoxy based natural fibre hybrid composite”.
11. **Dr. Siva Prakash P** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 22-07-2023. He did research under the guidance of **Dr. K G Satish**, on the topic titled “Experimental Investigation on fatigue and fracture behaviour of sic al203 aluminium matrix composites”.
12. **Dr. Prashanth S J** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 18-07-2024. He did research under the guidance of **Dr. K G Satish**, on the topic titled “Experimental Investigation on fatigue and fracture behaviour of Sic Al203 aluminium matrix composites”.
13. **Dr. Mohammed Kafeel Delvi** was awarded ph.d degree by Visvesvaraya Technological University, Belagavi.on 27-12-2023. He did research under the guidance of **Dr. K Mohamad Kaleemulla**, on the topic titled “Studies on Mechanical and Tribological Behavior of ZA27/MoS2 Hybrid Composite”.

RESEARCH PAPERS PUBLISHED BY FACULTY IN JOURNALS

Paper published by Dr. S Basavarajappa

1. R Pramod, VeereshKumar GB, Basavarajappa S.,(2024) Investigation of the Effect of Drilling Induced Delamination and Tool Wear on Residual Strength in Polymer Nanocomposites.FME Transactions 52 (4)
2. K P Lakshmi, CR Raghavendra, I Sogalad, S Basavarajappa,(2024) Study on high-temperature erosive wear behaviour, surface roughness and scratch resistance of NiCrAlY-based composite coating,Bulletin of Materials Science 47 (3), 1-12
3. M H Divakar, S Basavarajappa, AG Joshi.,(2023) Comparative Performance Analysis of Gr and MoS2 Solid Lubricants During High-Temperature Dry Sliding Wear Behavior of Al2618-Based Hybrid MMCs,Journal of The Institution of Engineers (India): Series D, 1-8.
4. AG Joshi, KN Bharath, S Basavarajappa(2023) ,Recent progress in the research on natural composite brake pads: a comprehensive review,Tribology-Materials, Surfaces & Interfaces 17 (3), 237-259.
5. A Pai, I Sogalad, 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 37 (4), 185-205.

6. TD Shashikala, BL Sunitha, S Basavarajappa, JP Davim,(2023) Some Studies on Measurement of Worn Surface by Digital Image Processing,International Journal of Image and Graphics 23 (02), 2350016
7. KP Jhansi Lakshmi, S Irappa, CR Raghavendra, S Basavarajappa,(2023) High temperature erosive behaviour of plasma sprayed NiCrAlY/B4C/Cenosphere coating on MDN 321 turbine steel,Transactions of the IMF 101 (1), 49-56
8. KN Bharath, M Puttegowda, S MavinkereRangappa, S Basavarajappa,(2023), Study of treatment effect on the Cocos nuciferalignocellulosic fibers as alternative for polymer composites, Journal of Natural Fibers 20 (1), 2134257.

Paper published by Dr. Irappa Sogalad

1. 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, 37:4, 185-205, Taylor and Francis Publications, <https://doi.org/10.1080/09507116.2023.2207750>
2. K P Lakshmi, CR Raghavendra, **I Sogalad**, S Basavarajappa (2024) Study on high temperature erosive wear behaviour, surface roughness and scratch resistance of NiCrAlY-based composite coating, Bulletin of Materials Science 47 (3), 1-12.

Paper published by Dr. S B Prakash

1. Marulasiddeshi HB, Kanti PK, Jamei M, Prakash SB, Sridhara SN, Said Z Experimental study on the thermal properties of Al2O3-CuO/waterhybrid nanofluids: Development of an artificial intelligence model.International Journal of Energy Research, Volume 46(15):21066-21083.doi:10.1002/er.8739.
2. Marulasiddeshi H B, Praveen Kumar Kanti, Prakash S B, Sridhara S N Investigation of entropy generation and thermohydrauliccharacteristics of Al2O3-CuO hybrid nanofluid flow in a pipe atdifferent inlet fluid temperatures.Internal Journal of Thermal Sciences. Status:<https://doi.org/10.1016/j.ijthermalsci.2023.108541>.
3. T. Ganesha, S. B. Prakash, S. Sheela Rani, B. S. Ajith, G. C.ManjunathPatel, and O. D. Samuel,“Biodiesel yield optimization from ternary (animal fat-cotton seed andrice bran) oils using response surface methodology and grey wolfoptimizer,”Elsevier, Industrial . Crops and Production,vol. 206, p. 117569, 2023.
4. ThippeshnaikGanesha, SajjalBasanna Prakash, AjithBintravalliSuresh,Manjunath Patel GowdruChandrashekarappa, Olusegun David

Samuel, Oguzhan Der, and Ali Ercetin. 2023. 'Experimental Investigation of Compression Ignition Engine Combustion, Performance, and Emission Characteristics of Ternary Blends with Higher Alcohols (1-Heptanol and n-Octanol) MDPI Energies 16, no. 18: 6582. doi: <https://doi.org/10.3390/en16186582>

5. B.S. Ajith, S.B. Prakash, G.C. Manjunath Patel, Likewin Thomas d, Mudassir Hasan Krishna Kumar Yadav, Olusegun D. Samuel. 'Optimizing biodiesel production from underutilized *Garcinia indica* oil through empirical, Coati Optimization and Salp Swarm Algorithm' Elsevier, Biomass and Bioenergy 200

Paper published by Dr. Shekharappa B Mallur

1. 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.
2. 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)
3. Shridhar H. Budapanahalli, S. B. Mallur, Arun Y. Patil & Sandeep C. Dhaduti " Experimental Investigation on Hybrid Aluminium Metal Matrix Composite Spur Gears", Journal of The Institution of Engineers (India): Series D Metallurgical & Materials and Mining Engineering (2024). <https://doi.org/10.1007/s40033-024-00646-3>

Paper published by Dr. Mallikarjun C

Lingaraju Sannananjapla Vageshappa, Mallikarjuna Channabasappa, 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, Issue 1 (2023) p 19-30, p-ISSN: 2148-9807; o-ISSN: 2149-4088,

Paper published by Dr. C G Sreenivasa

Mahadev M., Sreenivasa C G and Borgaonkar A V (2024), "Aluminium Metal Foam Production Methods, Properties and Applications- A Review", Materials Today: Proceedings, Volume 77, No.3, pp.673-679, 05/02/2024.

H.M. Anil Kumar, V. Venkata Raman, Mahendra K C, Sreenivasa C G, (2025), "Investigation of Process Specifications on Friction Stir Welded Aluminium 5083 and 6082 Alloys", Journal of Polymer & Composites, Vol.13, No.2, pp.S1-S12. ISSN: 2321-2810 (Online) ISSN: 2321-8525 (Print), DOI (Journal): 10.37591/JoPC, 11/01/2025.

Srinivas Arabilachi, Sreenivasa Challakere Govindappa, Bharath Kurki Nagaraj, Brailson Mansingh Bright and Joseph Selvi Binoj "Comprehensive Characterization of Raw and Oxalic Acid Treated Ripen Cellulosic Biofiber from *Areca Catechu* Inflorescence as Substitute for Harmful Synthetic Products", Journal of Research Updates in Polymer Science, Vol.14, pp.23-40. Published on 09-06-2025.

Paper published by Dr. K Mohamad Kaleemulla

1. Vishalkumar Dhummsure, Saleemsab Doddamani, NI Jamadar, and K Mohamed Kaleemulla (2023) "Structural and modal analysis of crankcase of single cylinder diesel engine", International Journal on Interactive Design and Manufacturing (IJIDeM), Vol. 17, Issue. 3, pp. 1215-1223, 06/2023.
2. Mohamed Kafeel Delvi and K Mohamed Kaleemulla "Tensile and compressive mechanical properties of ZA27/molybdenum disulfide, metal matrix composite", Res. Eng. Struct. Mat. Vol. 12 Iss. 10, pp. 1519- 1523, 2023
3. RS Ramesh, S Kumar, Y Begum, S Doddamani & K M Kaleemulla, "Fracture toughness investigations of AA6061-SiC composites: Effect of corrosion parameters", Materials Chemistry and Physics 308, 128224, 2023
4. KN Bharath, S Doddamani, AM Rajesh, K M Kaleemulla, "Simulation Of Various Fracture Models By Varying Geometrical Parameters Using Taguchi's Doe Simulacija Raznih Modela Loma Variranjem Geometrijskih Parametara Primenom Taguči", Structural Integrity and Life 23 (2), 191-195, 2023
5. Saleemsab Doddamani, Yasmin Begum, Bharath K.N., Rajesh A.M. and Kaleemulla K Mohamed, "Investigation of fracture toughness analysis of polymer composites using finite element analysis", Finite Element Analysis of Polymers and Composites, Chapter 8. DOI: <https://doi.org/10.1016/B978-0-443-14087-7.00008-2>, 2024 Elsevier Ltd.

Paper published by Dr. K G Satish

1. Siva prakash P, K G Satish, "Influence of Various Parameters on Properties of Al MMC (AMMC's): An Overview" International Journal of Science Research and Engineering Development. V-6 I-2, 2023, 2581-7175.
2. Siva prakash P, K G Satish, "Exptl Study On Scratch Resistance For Ramp Loading Of Al MC Reinfrced With Sic Particles" International Research Journal of Modernization in Engineering Technology & Science, V-5, I-6, 2023, 2582-5208
3. Harsha H M and K G Satish, "A study on fracture behavior of SEN natural hybrid composite specimen under tensile load" Journal: Strength, Fracture & Complexity DOI: 10.3233/SFC-230005 vol. Published: 2023, 1567-2069.

4. Prashanth S J and K G Satish, "Evaluation of Edge Notched Tensile Property on Natural Hybrid Composites Subjected to Sea Water Treatment" Bulletin For Technology And History, Volume 11 Issue 7 ISSN 0391-6715 PP 132-140.2023, 0391-6715.
5. Prashanth S J and K G Satish, "Analysis of Bearing Strength and Failure Modes of Natural Hybrid Composites" Bulletin For Technology And History, Volume 23 Issue11 ISSN 0391-6715 PP 265-276.2023, 0391-6715.
6. Siva prakash P and K G Satish," An Investigation On The Effect Of Ni-Cr Coating Thickness On The Scratch Resistance Of Particle-Reinforced Aluminium Matrix Composite" Sept 2023, Suranaree J. Sci. Technol. 30(6):030154(1-7).
7. Harsha H M and K G Satish, "Experimental analysis of fracture behavior in ESET jute-natural fiber hybrid composites under eccentric tension" Strength, Fracture and Complexity- Sage Publications, 2025, Vol. 18(1) 3-17, DOI: 10.1177/15672069241302928.

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M H Divakar, S Basavarajappa, DC Dileep,(2023) Experimental investigations on dry sliding wear behavior of hybrid metal matrix composites at elevated temperature,AIP Conference Proceedings 2399 (1).

Basavarajappa Sekharappa, Manavendra Gowda; S B Prakash; N V Raghavendra Reddy; Dayananda KadlebaluNagappa ' Computational study of heat transfer enhancement in double pipe heat exchanger using helical fins' 2023 International Conference on the Confluence of Advancements in Robotics, Vision and Interdisciplinary Technology Management (IC-RVITM), 28-29 November 2023. DOI: 10.1109/IC-RVITM60032.2023.10435115.

Srinivas A., **Sreenivasa C G** and Madgule Mahadev(2024), "A review on - Variants in specimen preparation of natural fiber composites", AIP Conference Proceedings, Vol. 3013, No.1, pp 020013-1 to7, 21-03-2024.

WORKSHOPS

Dr. IRAPPA SOGALAD

- 1) IPR Cell, UBDTCE, Davanagere organized one day workshop on 'Intellectual Property Rights' for faculty members and research scholars on 26/8/2023.
- 2) Organized Two days Entrepreneurship Development Programme on 'Start-up companies: Ecosystems for setting up & growth' in DOS in Mechanical Engineering, during 31-05-2024 and 01-06-2024 held at UBDTCE, Davanagere, Sponsored in Memory of Sri S Dakshinamurthy proud Alumni (1960 pass out) by his family members.

Dr. SHEKHARAPPA B MALLUR

Organized Two days Entrepreneurship Development Programme on 'Start-up companies: Ecosystems for setting up & growth' in DOS in Mechanical Engineering, during 31-05-2024 and 01-06-2024 held at UBDTCE, Davanagere, Sponsored in Memory of Sri S Dakshinamurthy proud Alumni (1960 pass out) by his family members.

Organised EDP which was sponsored in memory of Late. Sri. S. DAKSHINA MURTHY, by his family members, a two Days Entrepreneurship Development Program (EDP), on, "Establishment of Start-Up Companies: Idea Generation and Technical Feasibility Studies" has been organized by the department of studies in Mechanical Engineering of University BDT College of Engineering on 09.05.2025 to 10.05.2025, to inspire & inculcate importance of entrepreneurial mind-set among students.

IPR Cell, UBDTCE, Davanagere organized one day workshop on 'Intellectual Property Rights' for faculty members and research scholars on 26/8/2023. Dr. S B Prakash has attended and deliver a technical talk during the workshop.

Chirstiani Sharpline Technical Training Private Limited Conducted 2 weeks FDP from 31/10/23 to 10/11/23 at UBDTCE, Davanagere on the topic 'Robotics. Dr. S B Mallur has attended the FDP.

Dr. S B PRAKASH

IPR Cell, UBDTCE, Davanagere organized one day workshop on 'Intellectual Property Rights' for faculty members and research scholars on 26/8/2023. Dr. S B Prakash has attended the workshop.

Chirstiani Sharpline Technical Training Private Limited Conducted 4days FDP from 22/11/23 to 25/11/23 at UBDTCE, Davanagere on the topic 'Robotics Technology'. Dr. S B Prakash has attended the FDP.

Department of Mechanical Engineering, UBDTCE, Davanagere has organized 2 days EDP from 31/5/24 to 01/6/24 on 'Start-Up Companies: Ecosystems for setting up & Growth'. Dr. S B Prakash attended the EDP.

Department of Mechanical Engineering, UBDTCE, Davanagere has organized 2 days EDP from 09/5/25 to 10/5/25 on 'Establishment of Start-Up Companies: Idea Generation and Technical Feasibility Studies'. Dr. S B Prakash has attended the EDP.

Dr. C G SREENIVASA

IPR Cell, UBDTCE, Davanagere organized one day workshop on 'Intellectual Property Rights' for faculty members and research scholars on 26/8/2023. Dr. Sreenivasa C G has attended the workshop.

Chirstiani Sharpline Technical Training Private Limited Conducted 2 weeks FDP from 31/10/23 to 10/11/23 at UBDTCE, Davanagere on the topic 'CNC technology'. Dr. Sreenivasa C G has attended the FDP.

Department of Mechanical Engineering, UBDTCE, Davanagere has organized 2 days EDP from 31/5/24 to 01/6/24 on 'Start-Up Companies: Ecosystems for setting up & Growth'. Dr. Sreenivasa C G was the co-coordinator and attended the EDP.

Department of Mechanical Engineering, UBDTCE, Davanagere has organized 2 days EDP from 09/5/25 to

10/5/25 on 'Establishment of Start-Up Companies: Idea Generation and Technical Feasibility Studies'. Dr. Sreenivasa C G was the co-coordinator and attended the EDP.

VTU Headquarters, Belagavi organized under University flagship initiative akadmia connectus-2025, has organized 3 days FDP from 19/5/25 to 21/5/25 on 'Hands-on Training in Schneider Electric Lab'. Dr. Sreenivasa C G has attended the FDP.

Dr. K MOHAMAD KALEEMULLA

Chirstiani Sharpline Technical Training Private Limited Conducted 2 weeks FDP from 31/10/23 to 10/11/23 at UBDTCE, Davanagere on the topic 'Industrial Training – Hydraulics and Pneumatics" Dr. K Mohamad Kaleemulla has attended the FDP.

Department of Mechanical Engineering, GEC, Huvinahadagali, conducted 5-Days FDP sponsored by KSTePS, VGST on "Mechanics of Composite Materials & Structures" from 05-09th August 2024. Dr. K Mohamad Kaleemulla has attended the FDP.

Department of Electrical and Electronics Engineering, Kishkinda University, New Delhi conducted 5-Days FDP on "Applications of AI/ML in Power Systems & Electric Vehicles" from 05-09th August 2024. Dr. K Mohamad Kaleemulla has attended the FDP.

Dr. K G SATISH

Chirstiani Sharpline Technical Training Private Limited Conducted 2 weeks FDP from 31/10/23 to 10/11/23 at UBDTCE, Davanagere on the topic 'Industrial Training – Hydraulics and Pneumatics" Dr. K G Satish has attended the FDP.

Department of Mechanical Engineering, GEC, Huvinahadagali, conducted 5-Days FDP sponsored by KSTePS, VGST on "Mechanics of Composite Materials & Structures" from 05-09th August 2024. Dr. K G Satish has attended the FDP.

Department of Electrical and Electronics Engineering, Kishkinda University, New Delhi conducted 5-Days FDP on "Applications of AI/ML in Power Systems & Electric Vehicles" from 05-09th August 2024. Dr. K G Satish has attended the FDP.

EXPET LECTURES OR INVITED LECTURES /TALKS

Dr. Sreenivasa C G, Associate Professor, was invited as a resource person for the technical talk titled "Intellectual Property Rights: An Overview" in one day workshop on IPR, held on 26/8/2023 organized by IPR cell, UBDTCE Davanagere. This expert lecture was delivered for the faculty members and research scholars.

Dr. Sreenivasa C G, Associate Professor, was invited as a resource person for the technical talk titled "Entrepreneurship" in 2nd Phase Student Induction Program for the academic year 2023-2024, held on 6/3/2024, UBDTCE, Davanagere. This expert lecture was delivered for the 1st year B.E. Students.

Dr. Sreenivasa C G, Associate Professor, was invited as a resource person for the motivational talk titled "Innovation and Research" held on 12/3/2025, KLE Technological University, Hubballi. This expert lecture was delivered for the 4th and 6th semester B.E. Civil Engineering Students.

Dr. S B Mallur, Professor, was invited as a resource person for the technical talk titled "Concept, Scope, Need and Nature of Intellectual Property Rights" in one day workshop on IPR, held on 26/8/2023 organized by IPR cell, UBDTCE Davanagere. This expert lecture was delivered for the faculty members and research scholars.

Dr. S B Mallur, Professor, was invited as a resource person for the technical talk titled "Leadership Skills and personality Development" in 2nd Phase Student Induction Program for the academic year 2023-2024, held on 5/3/2024, UBDTCE, Davanagere. This expert lecture was delivered for the 1st year BE Students.

Dr. S B Mallur, Professor, was invited as a resource person for the technical talk titled "Personality traits of Entrepreneurship" in Two day workshop on Entrepreneurship awareness workshop held on 19/7/2025 organized by Entrepreneurship cell, Bapuji Polytechnic, Davanagere. This expert lecture was delivered for all final year students.

AWARDS AND RECOGNITIONS

Dr S BASAVARAJPPA

1. **Indian Patent Granted** on "method and apparatus for fabrication of fiber reinforced polymer composite helical spring using Reusable mould. On 13.02.2024.
2. **Member of Board of Governors** University of Visvesvaraya college of Engineering, Bengaluru.
3. **Chairman.**, Statutes formation Committee at UVCE Bengaluru

Dr C G SREENIVASA

Dr. Sreenivasa C G guided UG project titled 'Design and Fabrication of Automatic Pneumatic Bumper and Braking System' has secured 1st prize in the Project Exhibition, organized by Mechanical Engineering Forum, UBDTCE, Davanagere, held on 9/5/2024.

Dr. Sreenivasa C G was a Chief Guest for Kanankadas Jayanthi Celebration, UBDTCE, Davanagere, held on 17/11/2024.

Dr. Sreenivasa C G guided UG mini project titled 'Hand Crank Power Charger' has secured 2nd prize in the Project Exhibition, organized by Mechanical Engineering Forum, UBDTCE, Davanagere, received on 30/5/2025.



PROJECT EXHIBITION

Project Exhibition was organized by the department of studies in Mechanical Engineering of University BDT College of Engineering on 09 May 2024, the main objective of this programme is to improve students' knowledge and encourage them to compete in the competitive engineering field.



Major objective of organizing this exhibition was to provide the platform and unleash the potential of the students by showcasing their innovative projects developed in the Final Year either as Industry Defined Problem or User Defined Problem and provide an opportunity for the students to demonstrate their learning experience.



A Project Exhibition is organized every year from 2016 for students to exhibit their technical skills and knowledge and to emphasis on project-based learning. It's a space where all of the students can engage in inter-disciplinary research. This practice helps our rural-based students to learn from their peers, develop leadership and presentation skills, improve their teamwork abilities, and transform their attitudes towards experiential learning.

The outcome of the PROJECT EXHIBITION was that students were able to show their project at higher level and the process boosted their confidence.

Total 17 student's projects exhibited in the project exhibition.



Following three experts are invited as a Chief Guest and a Judge to evaluate the quality of the project and recommend top three award winners based on the quality of the projects in the project exhibition

Dr. N. NAGESHA, Professor, University B.D.T. College of Engineering, Davanagere

Dr. RAJKUMAR D G, Professor, G M Institute of Technology, Davanagere

Dr. SREENIVASA R, Assistant Professor, Jain Institute of Technology, Davanagere

Following projects won the first prize, second prize and third prize respectively

1. DESIGN AND FABRICATION OF AUTOMATIC PNEUMATIC BUMPER & BRAKING SYSTEM
2. RELAY AND PLC CONTROLLED AUTOMATED SHEET METAL PUNCHING
3. PORTABLE REFRIGERATOR USING PELTIER MODULE

Dr. S B Mallur and Dr. Mallikarjun C were coordinated the Project Exhibition.



PROFESSOR-EMIRUTUS

Dr. Shekharappa B Mallur appointed as Professor-Emeritus to the Mechanical Engineering Department from the VTU, Belagavi.



JOINTLY ORGANISED
STUDENT ORIENTATION PROGRAMME-II
Special Technical Seminar
on "HUMIDITY SENSING STUDIES ON
CONDUCTING
POLYMER NANO COMPOSITE"

Department of Studies in Mechanical Engineering and Department of Studies In Electronics and Instrumentation Engineering jointly organized one day Student Orientation Programme-II (SOP) special technical seminar on the topic "humidity sensing studies on conducting Polymer Nano composite" for fourth and sixth semester of Department of Studies in Mechanical Engineering and Department of Studies In Electronics And Instrumentation Engineering of University BDT College of Engineering, Davanagere on 18.07.2024



It is an immensely satisfying fact that Dr. CHETHAN B, Raman-Institute of Eminence Post-doc fellow, Department of Physics, Indian Institute of Science (IISc), Bangalore, Karnataka, India identified as a resource person and delivers a technical seminar on the very latest and interested topic "humidity sensing studies on conducting Polymer Nano composite". The session was conducted in very lively environment with total active participations of delegates.

Visvesvaraya Technological University, Belagavi
 Department of Studies in Mechanical Engineering
 DEPARTMENT OF STUDIES IN ELECTRONICS AND INSTRUMENTATION ENGINEERING
 University B.D.T. College of Engineering, Davanagere
 (A Constituent College of VTU, Belagavi)

STUDENT ORIENTATION PROGRAMME-II

SPECIAL TECHNICAL SEMINAR

on
HUMIDITY SENSING STUDIES ON CONDUCTING
POLYMER NANO COMPOSITE

Date: 18.07.2024
Time: 10.30 am to 12.00 noon

VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU), BELAGAVI
 Department of Studies in Mechanical Engineering
 DEPARTMENT OF STUDIES IN ELECTRONICS AND
 INSTRUMENTATION ENGINEERING
 University B.D.T. College of Engineering, Davanagere
 (A Constituent College of VTU, Belagavi)

Certificate of Recognition


Dr. CHETHAN B
 Raman-Institute of Eminence Post-doc fellow, Department of Physics,
 Indian Institute of Science (IISc), Bangalore, Karnataka, India

RESOURCE PERSON

In grateful acknowledgment of his expertise, professional competence and Invaluable service rendered as Chief Guest / Resource Speaker in jointly organizing student orientation programme-II special technical seminar on

"HUMIDITY SENSING STUDIES ON CONDUCTING POLYMER NANO COMPOSITE"
held on

Date: 18.07.2024
Time: 10.30 am to 12.00 noon

DR.MALLIKARJUN S.HOLI Chairperson and Professor
Dr.S. BASAVARAJAPPA Chairperson and Professor
Dr. D. P. NAGARAJAPPA Principal



The one day Student Orientation Programme-II (SOP) special technical seminar receives the tremendous response and about 145 applications were obtained in a short period of time. Finally keeping the response and infrastructural constraints in mind 132 applications was selected for participations.

This volume contains the various details for the conduction of this one day Student Orientation Programme-II (SOP) special technical seminar. The authorities of Visvesvaraya Technological University (VTU), Belagavi and University B.D.T. College of Engineering, Davanagere, Karnataka, have provided a great support in successfully conducting this one

day Student Orientation Programme-II (SOP) special technical seminar and in acknowledges with heartfelt thanks.



The service rendered by the various committees, faculty and staff members of Department of Studies in Mechanical Engineering and Department of Studies In Electronics and Instrumentation Engineering non-teaching staff and office staff is acknowledged with deep sense of gratitude.



All students, faculty and staff members of Mechanical Engineering, Department and Department of Studies In Electronics and Instrumentation Engineering express our deep sense of gratitude and heartfelt thanks to all concern authorities.



