



MECH-CONNECT

Mechanical Engineering Department Newsletter Issue-03



PROJECT EXHIBITION IN ASSOCIATION WITH IQAC



B. V. V. Sangha's Basaveshwar Engineering College, Bagalkote, in association with the Internal Quality Assurance Cell (IQAC), successfully organized a Project Exhibition on 9th December 2025 from 9 am to 5 pm to encourage innovation, creativity, and practical application of engineering knowledge among students.

The main objective of the project exhibition was to provide a platform for students to showcase their technical skills, innovative ideas, and practical solutions to real-world engineering problems. The event aimed to promote interdisciplinary learning and research culture among students.

Awards and Prizes

To motivate and recognize outstanding projects, prizes were awarded as follows:

- First Prize: ₹5,000
- Second Prize: ₹3,000

The exhibition was conducted under the guidance and support of Dr. R. N. Herkal, DTE, BVVS Bagalkot, Dr. B. R. Hiremath, Principal, BEC Bagalkot, Dr. Mahabaleshwar S. K., Dean (R & D), Dr. S. H. Sanni, HoD, Civil Engineering, Dr. V. V. Kuppast, HoD, Mechanical Engineering. The event was efficiently coordinated by Dr. H. M. Kadlimatti and Prof. S. B. Chiniwalar.

The exhibition provided a vibrant platform for students of Civil Engineering, Mechanical Engineering, Biotechnology, and Industrial Production Engineering to showcase their innovative project works. Projects were evaluated by faculty members, and prizes were awarded to recognize excellence and innovation. A First Prize of Rs. 5,000 and a Second Prize of Rs. 3,000 were awarded to the best projects. Overall, the Project Exhibition served as an excellent learning experience, fostering technical skills, teamwork, and research orientation among students.

Event Details

- Event Name: Project Exhibition
- Date: 9th December 2025
- Time: 9:00 AM to 5:00 PM
- Venue: In front of Civil & Mechanical Department Corridor

Participated Departments

The exhibition witnessed active participation from students of the following departments:

- Civil Engineering
- Mechanical Engineering
- Biotechnology
- Industrial Production Engineering

Faculty Achievements

Research Publications

- Dr. S. M. Jigajinni has authored a research article titled "Investigation of Tribological Behavior of Polyethylene Terephthalate (PET) Polymer Reinforced with Aluminum Oxide (Al_2O_3) Particulates", which has been published in the Istoriya Journal, Volume 8, Issue 11 (2025). The findings contribute to the understanding of polymer-ceramic composite materials and their potential applications in engineering components where reduced wear and enhanced durability are essential.



- Prof. S. S. Davanageri successfully presented a research paper titled "Advances in Natural Fiber- and Nano-Powder-Reinforced ABS Composites for 3D Printing: A Comprehensive Review on Materials, Computational Design, and Engineering Applications" at the International Conference on Computational and Cognitive Systems Science (ICCCSS'25) organized by the School of Computing, Rathinam Technical Campus (Autonomous). The conference was held on 30th–31st October 2025 at Rathinam Technical Campus, Coimbatore, Tamil Nadu.



- Prof. S. S. Davanageri has successfully completed the Google Gemini Academy 2025 program and has been awarded a Certificate of Completion by Google. The certification was granted in recognition of the successful completion of all academic and training requirements of the program. The certificate was presented on November 22, 2025 as part of Google's initiative to promote advanced learning in artificial intelligence and emerging digital technologies through the Gemini platform. The program aims to equip educators and professionals with contemporary AI knowledge and practical insights.



Elite certification by NPTEL

Dr. Siddhaling M Jigajinni has successfully completed the NPTEL online certification titled "Ethics in Engineering Practice", offered by IIT Kharagpur under the Ministry of Education, Government of India. Conducted during August–October 2025 as an 8-week course, the program emphasizes ethical responsibility and professional conduct in engineering.

He secured an Elite certification with an impressive consolidated score of 79%, achieving 25/25 in online assignments and 54/75 in the proctored examination.



FDP Attended

Mr. Praveen Kolar, faculty member from the Department of Mechanical Engineering, actively participated in a National Level One Week Faculty Development Programme (FDP) on "Fundamentals of Artificial Intelligence and Machine Learning" organized by the Department of Electronics and Communication Engineering, in association with the Internal Quality Assurance Cell (IQAC), Basaveshwar Engineering College (BEC), Bagalkote, from 16th to 20th December 2025. The programme was conducted at the Multimedia Seminar Hall, BEC, Bagalkote, from 9:15 a.m. to 5:30 p.m. each day.



Facilitation of Dr. Arun Pattanashetti

The Department formally facilitated Dr. Arun S. Pattanashetti, an alumnus of the department, on his prestigious appointment at the Aeronautical Development Agency (ADA), Ministry of Defence, Government of India.

In recognition of his valuable services and to wish him success in his future endeavors, the department organized a facilitation program. During the event, faculty members fondly recalled his association with the department, appreciated his academic and professional contributions, and congratulated him on his selection to the Aeronautical Development Agency, a premier organization under the Ministry of Defence.



Student Achievements

Praful P. Bhavikatti, Pavan M. Agaltakatti, Shrihari P. Gotagunati, and Gavish S. B. from the Department of Mechanical Engineering BEC Bagalkot presented a research paper titled "Design and Implementation of a Semi-Autonomous Military Support and Rescue Robot" at Jain College of Engineering and Research, Udyambag, Belagavi.

The project was carried out under the guidance of Prof. S. S. Davanageri. The paper explored the development of a rugged, AI-driven robotic system capable of detecting bombs, navigating hazardous environments, and rescuing casualties using a conveyor-belt mechanism. This innovative solution enhances operational safety and demonstrates how advanced technology can support bravery in critical military and rescue operations.



Project Exhibition Winners

Students of the Mechanical Engineering Department, Mr. Sandeep Y and Ms. Meghana B, achieved second place in the "Project Exhibition – 2025" organized by the Department of Civil and Mechanical Engineering for Final Year and Pre-Final Year Engineering students. In recognition of their outstanding project presentation and technical competence, the team was awarded a cash prize of ₹1,500. This achievement reflects the students' innovation, dedication, and practical application of engineering knowledge.



Glimpses of Project Exhibition December 2025



Dr. R. N. Herkal, DTE, BVVS Bagalkot, and Prof. Haravi, Development Officer, BEC, inspected the Project Exhibition and interacted with the students.



Inspection and Interaction by Dr. B. R. Hiremath, Principal, BEC Bagalkot



Inauguration of Project Exhibition 2025 by Dr. B. R. Hiremath, Principal, BEC Bagalkot

Articles Jointly Published by Faculty and Students in International Peer-Reviewed Journals during 2024-25

Sr. No.	Title	Faculty	Students
1	Design and fabrication of low cost manual fertilizer spilling farm equipment	Dr. V. V. Kuppast	1. Nikhil Goudar 2. Mahesh Mavarakar 3. Bhimashi Bandi
2	Engineering Education Support System For Online Course Selection Using Python: A Supervised Learning Approach	Dr. V. V. Kuppast	1. Meghana S Biradar 2. Shivakumar S Shidaraddi 3. Sudeep Shettar 4. Shanmukhagouda M. K
3	Comparative study on mechanical properties of waste rein forced mud bricks	Dr. H. M. Kadlimatti	1. Shriram Singh A 2. Kasimsab Attar 3. Md Ahmed Moinuddin
4	Biofuel production from groundnut shells through slow pyrolysis	Dr. H. M. Kadlimatti	1. Bharatha CD 2. Basvaraj S Hasan 3. Balagouda S Patil 4. Umesh B Jangli
5	To develop sub-sonic wind tunnel for aerodynamic Testing	Dr. S. G. Saraganachari	1. Abhishek Kalaburgi 2. Aditya Pawar 3. Nagabhushan Karigar 4. Prashant Umadi
6	Smart railway track monitoring for real time crack detection using GSM and GPS	Prof. H. R. Patil	1. Naveen Kumar 2. Praveen Bhajantri 3. Mantesh Balloli 4. Sohilkhan
7	Fabrication of borewell rescue robot	Prof. R. S. Matti	1. Yuvraj 2. Vaibhav 3. Pramod Hallur 4. Praksh Kumbar
8	Design and development of eye mould for netra tarpana therapy	Prof. B. R. Endigeri	1. Pushpavati Policepatil 2. Madura Benakanalli 3. Shivaprasad Saradar 4. Vaishnavi Mathapati
9	Microstructural , mechanical and tribological behavior of stir cast LM13 hybrid metal matrix composites reinforced with silicon carbide and fly ash	Dr. M. C. Goudar	1. Raghu Kalamadi 2. Abhay Nara 3. M D Isak Momin 4. Sachin Kollappanavar
10	Android operated solar disinfectant sprayer robot	Dr. A. N. Sonnad	1. Prajwal M Kalakamb 2. Shravan M Simikeri 3. Ashpakahmad G Mulla 4. Gagan K Pujari
11	Structural Analysis of Kevlar reinforced laminated polymer matrix composites	Prof. P. C. Kolur	1. Avinash Deshpande 2. Ganesh Ghorpade 3. Khabderay 4. Yogesh Sutar
12	Battlefield Extraction Assest Robot	Prof. S. S. Davanageri	1. Praful Bavikatti 2. Pavan M Agalakatti 3. Shrihari P Godagunaki 4. Gavish S B
13	Design and development of Sugarcane loading mechanism for farm trolley	Prof. Pramod Bhajantri	1. Sandeep Yaligar 2. Abhishek Nigade 3. Karthik Sajjan 4. Sachin Hipparagi

Visit of Our Alumnus Mr.Santhosh Saraganacahari

Our Esteemed Alumnus Mr. Santosh Saraganachari, CEO, Gudagunti Sugars and Bioenergy Pvt. Ltd., Udapudi, Belagavi District, visited the institution. The visit provided an opportunity for interaction with faculty members and students, during which he shared valuable insights on industry practices, entrepreneurship, and the role of bioenergy in sustainable development. The department expressed pride in his achievements and appreciated his continued association and support.

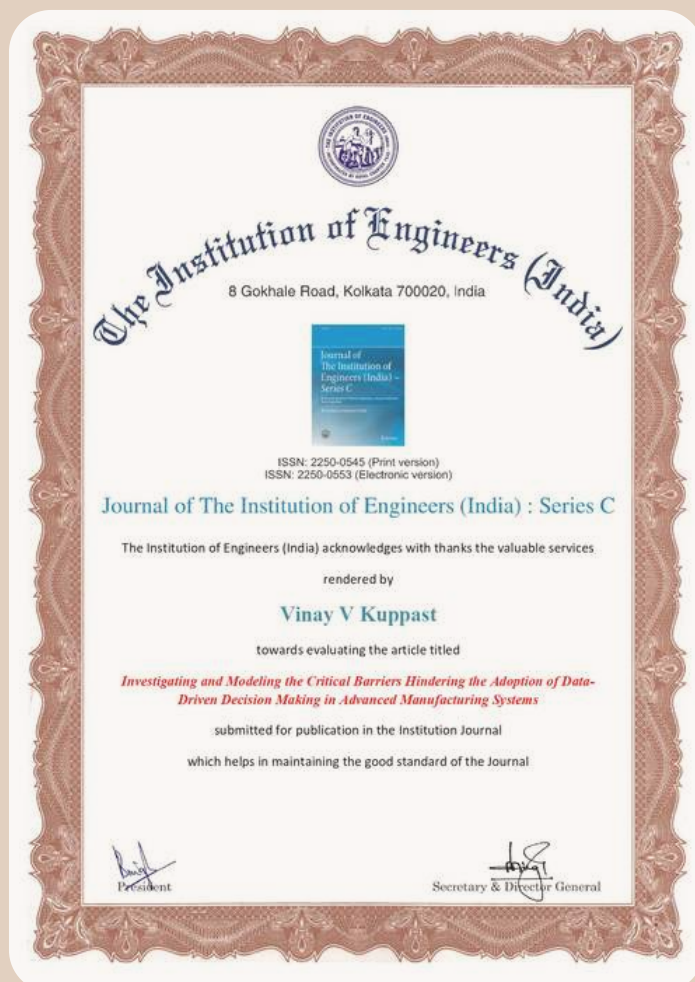


Review Contribution and Appreciation to Dr. Vinay V. Kuppast

Dr. Vinay V. Kuppast rendered his valuable academic service as a reviewer for the manuscript entitled "Octopus-Inspired Soft Robotic Arm with Distributed Neural-Mimetic Control for Precision Manipulation in Constrained Environments", submitted to the Journal of the Institution of Engineers (India): Series C. His expert review and constructive comments significantly contributed to maintaining the high scholarly standards of the journal.

The editorial team of the journal conveyed their sincere appreciation for Dr. Kuppast's timely and thorough evaluation of the manuscript.

In recognition of his dedicated service and valuable contribution to the peer-review process, the Journal of the Institution of Engineers (India): Series C issued Certificate(s) of Appreciation to Dr. Vinay V. Kuppast.



Vision

“To be an institution of excellence on education, research and innovation for sustainable future

Mission

- **Develop globally competent professionals to meet future talent demands.**
- **Nurture a culture of research, innovation and entrepreneurship.**
- **Promote collaborations, outreach and extension programs to address industrial and societal needs**
- **Imbibe moral and ethical values among students.**
- **Foster ecological and environmental consciousness.**



Dr. Vinay V. Kuppast – Chief Editor
Prof. Shivanand. C. Yali – Editor
Sri. Jagadish Honnihal – Member
Mr. Vaibhav – Student Member