



Bapuji Educational Association®
BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE.

Mech News

Semiannual News Letter of Mechanical Engineering Department

July - December 2021

(For private circulation only)

Issue : 02

*All of us do not
 have an equal
 talent, yet all of us
 have equal
 opportunities to
 develop our
 talents -
 Ratan Tata*

OUR VISION: *The department endeavors to be a center of excellence to provide quality education leading the students to become professional mechanical engineers with ethics, contributing to the society through research, innovation, entrepreneurial and leadership qualities.*

Editorial Board

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Dr. G. Manavendra
 Professor & Head
 Mechanical Engineering
 Department

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Dr H. B. Aravinda

Principal, BIET, Davanagere

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Mr. Sharan Mudda
 Asst Professor
 Mechanical Engineering
 Department.

STUDENT MEMBERS:



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- + Faculty Column
- + Students Column
- + Article Column
- + Photo gallery

DEPARTMENT'S MISSION:

- + To impart quality technical education to students through effective teaching learning process leading to development of professional skills and attitude to excel in Mechanical Engineering.
- + To interact with reputed institutions and R & D organizations to enhance academic and research activities.
- + To inculcate creative thinking abilities among students and develop entrepreneurial skills and innovative ideas.
- + To imbibe ethical, environmental and moral values amongst students through broad based education.

Program Educational Objectives (PEOs) of the Department

1. Enable to understand mechanical engineering systems those are technically viable, economically feasible and socially acceptable to enhance quality of life.
2. Apply modern tools and techniques to solve real problems in mechanical and allied engineering streams.
3. Communicate effectively using innovative tools to demonstrate leadership and entrepreneurial skills.
4. Be a professional having ethical attitude with multidisciplinary approach to achieve self and organizational goals.
5. Utilize the best academic environment to create opportunity to cultivate lifelong learning skills needed to succeed in profession.

Program Specific Outcomes (PSOs of the Department

1. PSO1: Apply the acquired knowledge in design, thermal, manufacturing and interdisciplinary areas for solving industry and socially relevant problems.
2. PSO2: To enhance the abilities of students by imparting knowledge in emerging technologies to make them proficient mechanical engineers.



Dr. G. Manavendra
Professor & Head of Department

Mechanical Engineering – a core engineering discipline – plays a central role in creation of the materialistic world. The department offers undergraduate, postgraduate programs in Machine Design and Thermal Power Engineering. Department also had a Research Centre and Product Development Cell.

The department has a team of highly qualified, dedicated and experienced faculty in order to contribute to the technical education and research, which helps to old young engineers by igniting their minds. In addition to academics, the department strives for the holistic development of students by arranging various activities like seminar, conference, workshops, industrial visit, training & placement activities. Students are also encouraged to carry out in-house projects and motivate them to apply for grants from national agencies like KSCST, AICTE and DST. The department believes in preparing ethical leaders who are not only committed to Industry but also to the serve the society through Entrepreneurship.

The department is actively encouraging the students for co-curricular and intercollegiate activities and sports. Students have received several awards and appreciations in these activities. The department has a vibrant alumni network, through which the alumni are sharing their views. The department conducts interaction programs with distinguished alumni and the current students. Our alumni are pursuing higher studies in various reputed institutions in India and premier foreign Universities across the world in diversified field in Mechanical Engineering.

reputed organizations in higher positions. Few alumni are also serving in Government organizations and public sectors after qualifying UPSC and KPSC exams.



Departmental Activities

1. Department of Mechanical Engineering has organised a Online Quiz on Heat and Mass Transfer on 17th July 2021, around 112 students attended workshop .



2. A virtual inter disciplinary project exhibition, NIRMANA 1.0, organized by our Institute (BIET), in which our students participated and exhibited their project, was held on 13th August 2021. Our students won the best project



3. Department of Mechanical Engineering organized an online webinar on "Internship to Meet Corporate Expectations" on 18th August 2021. Dr. Sekhar S Iyer, Director MBA Program, Vivekananda school of Management Studies, Puttur, Dakshina Karnataka, was the invited speaker.

Mr. Naveen R Karki, Managing Director, Naveen Engineering Services, was the Guest Speaker.



5. Royal Mech forum organized a Open House Project Exhibition, TECHNOVATION, on 04th September 2021. Dr. Bhagyavana S Mudigoudra, E-Governance section & Director, Dept. of Higher Education, Govt. of Karnataka and Dr. Mallikarjuna S Holi, Principal, UBDT College of Engineering, Davanagere were the invited Chief Guests.



Sl. No.	Name of the Author	Publications
1	Dr.K.Sadashivappa	Study of tool wear characteristics while machining mono and graphite reinforced hybrid zinc Aluminum based MMCs
2	Dr. G. Manavendra	<ol style="list-style-type: none"> 1. Bio-ethanol additive effect on direct injection diesel engine performance, emission and combustion characteristics an experimental examination 2. Effect of piston bowl geometry on diesel engine performance operated with dairy scum biodiesel 3. Experimental investigation on thermal conductivity and thermal degradation of Honge oil methyl ester with B-20 blend
3	Dr.A.G.Shankaramurthy	Design and analysis of hybrid solar cell for e-vehicle charging
4	T N Vijay Kumar	<ol style="list-style-type: none"> 1. Effect of Flash Filler Material on Tensile Property for Jute/Glass Hybrid Laminate Composites with Dry and Wet Conditions”. 2. “Experimental Study on Dry and Wet Flexural Behavior of Jf/Gf Laminated Hybrid Composite”

Students Column

Student Projects funded by KSCST, Bangalore during 2020-2021

Sl. no	Title of the project
1	Synthesis of Liquid Fertilizer for Agriculture Using Cold Plasma Technology
2	Design and Development of High-Performance Graphene based Super Capacitor and Sensors by Laser Induced Process
3	Nano Coating with Cu-Tio ₂ Composite on Mild Steel Substrate by Electroplating Technique for the Improvement of Mechanical Properties.

Toppers during 2020-21

Sl No	Sem	Name of the Student	USN	SGPA
01	3 rd /4 th	Bhoomika G S	4BD19ME006	8.08
02	5 th / 6 th	Chetan Bhat	4BD18ME010	8.30
03	7 th / 8 th	Pradeep B T	4BD17ME052	9.50

Placement Details of 2021 Batch

Students of 2018 batch got Placement opportunities in the following companies

Sl No	Company	No
1	Q-Spider	03
2	Usha Armour pvt ltd., Bengaluru	03
3	Infosys, Bengaluru	02
4	TCS, Bengaluru	01
5	Pentagon Space	01
6	Basic First	01
7	Deloitte consulting India pvt ltd.,	01

HOD and Faculty of Mechanical Department congratulate the students who got placement in the above companies.

Royal Mech Forum Office Bearers

Sl No	Students Name	
1	Dhanush Vaddi	General Secretaries
2	Praveen Kumar H	
3	Manjula S E	Joint Secretary
4	Ashiq Mohammed	Organising Secretaries
5	Ruqaiya Mehwish	
6	Komala S S	Cultural Secretary
7	Manoj Kumar	Sports Secretary



AnveshanA Regional award 20-21



Project got Selected for Top 10 Indian Innovation Express



Our Alumnus, Mr Vageesh V Prasanna, DAQ & EPQ, RBEI Bengaluru, was invited as an Expert member of evaluation committee for evaluating the exhibited Mechanical Engineering projects, for NIRMANA 1.0 and for suggesting improvements in the projects and finally recommending awards for the exhibited projects. He recommended 3 Projects for Best Project of the department also for Institute awards.

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Bapuji Institute of Engineering and Technology, Davangere
NIRMANA-1.0
Bringing your ideas and innovations to life!!!
Panel of Experts

 Shri. Jagdish B V Superintendent Engineer, RDPR, Davangere.	 Shri. Vageesh V Prasanna DAQ & EPQ, RBEI, Bengaluru.	 Dr. Ananthapadmanabha T Former Principal, NIET, Mysore.	 Shri. Nagaraj G K Techno Program Manager, Tata Communication Ltd., Bengaluru.
 Dr. Hemant Pallivela Associate Vice President, AI and ML, eClerx Services Ltd., Mumbai	 Dr. Shreedhara K.S. Professor, CS & E, UBDTCE, Davangere	 Shri. Kshitij Basavaraj Director, Quality Assurance and R&D, PSK Pharma Pvt. Ltd., Harihar	 Dr. Harishkumar Postdoctoral Research Fellow, University of British Columbia (UBC), Vancouver, Canada

Event link: bit.ly/nirmanabiet FRI 13th AUG 2021 09:00 AM

The following Guests: Jagdish B V, Superintendent Engineer, RPDR Davangere, Dr. Ananthapadmanabha T, Former Principal, NIET Mysore, Nagaraja G K, Techno Program Manager, Tata Communications Ltd., Bengaluru, Dr. Hemant Pallivela, Associate Vice President, AI and ML, eClerx services Ltd., Mumbai, Dr. Shreedhara K S, Professor, CS & E, UBDTCE, Davangere, Kshitij Basavaraj, Director, Quality Assurance and R&D, PSK Pharma Pvt Ltd., Harihar, and Dr. Harishkumar, Postdoctoral Research Fellow, University of British Columbia (UBC) Vancouver, Canada, were invited as the Panel of Experts to judge and evaluate the student projects from our department, during NIRMANA 1.0.

1. **Vinay Atgur, G Manavendra, GP Desai, B Nageswara Rao Thermal characterisation of dairy washed scum methyl ester and its b-20 blend for combustion applications “International Journal of Ambient Energy” Pages 1-11 Publisher Taylor & Francis.**
2. **Vinay Atgur, G. Manavendra, G.P. Desai Experimental investigation on thermal conductivity and thermal degradation of Honge oil methyl ester with B-20 blend “Journal of Thermal Engineering” Volume7 Issue7 Pages 1604-1613**
3. **Dr. G Manavendra Devi Prasad N Mirashi Ajith Basti A Experimental Study and Analysis of Thermal Properties of Rice Husk Ash Based Concrete “international Journal of Innovative Research in Science, Engineering and Technology Volume 10 Issue 10 Pages 13552 - 13559**

INDIVIDUAL FACULTY

1. Dr. Manavendra G
 - published a paper on “Thermal characterization of dairy washed scum methyl ester and its b-20 blend for combustion applications” in International Journal of Ambient Energy 1-11, 2021
 - Published a paper on “Effect of piston bowl geometry on diesel engine performance operated with dairy scum biodiesel” in International Journal of Ambient Energy 1628-1638 41 (14) 2021
 - Was Appointed as a LIC member of VTU Belagavi for the academic year 2021-22
 - Attended Two days webinar on “Academic and Administrative Audit ”Organized By IQAC, RYMEC, Ballari on 18-08-2021 & 19-08-2021
2. Dr. S Kumarappa
 - Attended webinar on Enriching Engineering Education through experimental, collaborative and social learning on 23rd July 2021, organized by FDC, AICTE, New Delhi.
 - Attended webinar on Introduction to Cloud Computing and AI on 7 Aug 2021 organized by Cloud X lab.
 - Attended webinar on Data Analysis using Python on 11 Aug 2021 organized by Cloud X lab.
 - Attended webinar on the shift to Hybrid Learning in Higher education organized by EdTech Review on 29 July 2021.
 - Organized webinar on Opportunities in HVAC/Mechanical Industry job profile/ Internship/Startup on 28-8-21 in association with PRINSTON SMART ENGINEERS, New Delhi-110025.
3. Professor Umesh D E
 - Attended a 5 day online FDP on the theme inculcating universal human values in technical education organized by all India council for technical education from 26th July to 30th July 2021.
 - Participated in virtual faculty development program on funding agency for supporting it and entrepreneurship organized by Mahendra institute of technology on 5th July 2021
4. Professor Manjunatha G M Attended AICTE sponsored five days Short term course “Open core smart manufacturing-Building the bridge between Automation and Information Technology” Organized by department of mechanical engineering, Indian Institute of Technology, Madras.
5. Professor M. Krishnamurthy & Manjunatha G M Attended One Week National Level Online Faculty Development Program on “Advances in Materials & Manufacturing” organized by Department of Mechanical Engineering from 12-07-2021 to 16-07-2021 S J M institute of technology Chitradurga.
6. Professor A B Vinayak Patil Attended one day online webinar on “Microfluidics and Nanotechnology for Lab on Chip and Personalized Diagnostics” organized by Department of Mechanical Engineering, Ramaiah Institute of Technology, Bangalore held on 05th August 2021.
7. Professor A B Vinayak Patil Attended one day online webinar on “Productionizing Autonomous Driving: A Holistic View” organized by Department of Mechanical Engineering, Ramaiah Institute of Technology, Bangalore held on 23rd July 2021.

Online Alumni meet, for 2012-2016 batch Alumni's held on 24th July 2021

Bapuji Institute of Engineering and Technology
DEPARTMENT of MECHANICAL ENGINEERING

Invites

ALUMNI MEET -2016 Batch

GUESTS

Prof. Y. Vrushabhendrappa
Director

Dr. H. B. Aravind
Principal

President
Dr. G. Manavendra
Program Coordinator

Staff co-ordinators
Dr. K Sadashivappa
Prof. B . Basarvaraj
Dr. Sharan A.S
Sharan Mudda

Platform:Google- meet
Venue: Board Room, Admin. Block
Date: 24th July 2021, 10.30 AM



BAPUJI EDUCATIONAL ASSOCIATION ®
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY
DAVANGERE - 577 004
DEPARTMENT OF MECHANICAL ENGINEERING



INVITATION

Dear Alumnus,

Warm Greetings from Department of Mechanical Engineering, BIET, Davangere.

We are glad to inform you that, Department of Mechanical Engineering is organizing Virtual Alumni Meet of 2016 output batch students on 24th July 2021 at 10:30 AM.

Objectives

- To bring together all the old students and the faculty of Department to share their experiences with each other.
- To utilize the rich experiences of old students of the Department for the benefit and progress of the present students.
- To provide guidance to the present students in their endeavor for better employment and higher studies.

“Mech MEET”

VIRTUAL MEET OF 2016 BATCH STUDNETS

We are hereby sending this Invitation along with Programme Schedule.

Link for joining the Virtual Meet through Google Meet is:

<https://meet.google.com/eqx-qypz-dac>

Looking forward for your fruitful active participation in the Online Alumni Meet.

Please feel free to contact the faculty members given below for any clarifications.

Dr. G Manavendra	9964030806	Dr. K Sadashivappa	9241425736
Dr. K.C Devendrappa	9844616304	Dr. Sharan A.S	9164490699

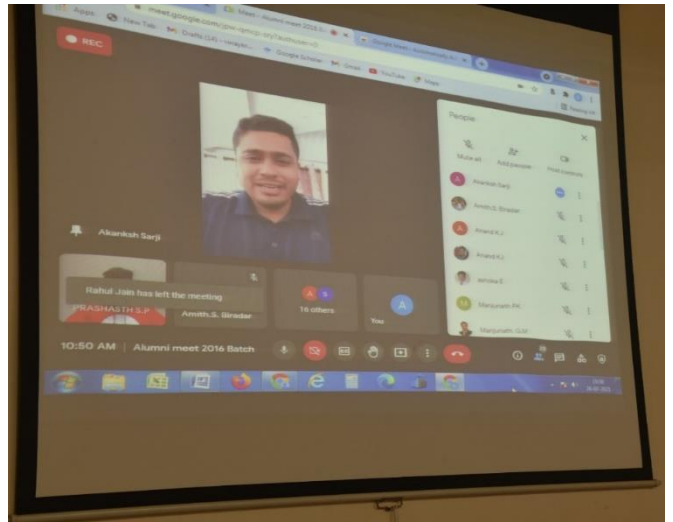
****Kindly spare a few minutes to fill the Alumni feedback form using the below link:**

<https://forms.gle/UCa7DkNieqBkwVFN9>

With Best Regards,

**Program Coordinator (HOD) and Organizing Committee Members
Department of Mechanical Engineering**

BIET, Davangere-577004



For this online program the invitation was given to alumni through personal email, WhatsApp and also by personal messages and phone calls. A WhatsApp group was also run by the alumina association from so many days. The program was spread through the electronic media.

The meeting was hosted by **Dr. Sharan A.S**, Associate Professor, Alumni Co-coordinator welcomed all the participants to the online meet.

Dr. G Manavendra, HOD, delivered the welcome address to all our faculty members and alumni students of 2016 batch and presented department progress and facilities developed for the students over the years. Students felt very happy about the developmental activities carried out over the years

Prof. Y Vrushebhendrapa, Director, addressed the meet and explained the importance of the Alumini interaction with the institute and the department. He also the process of NBA and the role of Alumni association in building a profound education background for future India.

Dr. K. Sadashivappa, Principal addressed the meet and shared his experience of ICT tools that aid in teaching and learning process. He invited the students to visit back to the departments and share their valuable inputs for the further development of the career.

Dr. K.C Devendrappa, Professor, Alumini Co-ordinator of the Institute addressed the students and highlighted the importance of this meet. Further he invited students for their strong support to build this Alumni Association. He requested the students to share their outside world experience with our students. He also invited the Alumina to conduct workshop seminars.

From the Alumna

Prashath Presently working as senior manager shared his experience about the quality education that he received from this Institute, and how that helped him to build his career.

Akansh explained the importance of the project that he conducted at the Institute level and how that supported for his identity in the abroad while doing his MS Program in Germany.

Manjunath thanked all the teachers for their kind support in making their academic career





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