Dr. Bheemsha Arya

Principal

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PROFILE

- Male, Indian, Born on May 3rd, 1967
- Received B.E degree in Industrial and Production Engineering from Bangalore University, Bangalore
- Further studied in Mechanical Engineering and received M.E degree (Manufacturing Science and Engineering) from U.V.C.E. Bangalore
- Ph.D. from **Visvesvaraya Technological University, Belagavi Karnataka, India.**

LEADERSHIP QUALITIES

- Founder President, BMSCE Aided faculty forum ®
- President, All Karnataka Aided Engineering College SC/ST Employees Welfare Association ®
- Secretary, All Karnataka Aided and Government Engineering Colleges Professors Association ®
- Mentor / Advisor to many Social, Non-Political and Non-Government Organizations.
- Financially supporting to many poor and needy students for their education and social needs.
- Create a transformative vision, guide employees in making it a reality, and enable them to overcome barriers
- Inspire all colleagues towards the achievement of the goals of the institute and leading them from the forefront.
- To encourage, guide, and direct faculty, staff, and other stake holders to work together in achieving the set goals.
- Ability to Planning, Organizing, Leading, Directing, Coordinating and Controlling various activities in the college.

- Take initiatives to build the team spirit among the employees.
- Ability to effective liaison between employees and management.
- Set high standards of discipline.
- Sincere, committed and dedicated in work pattern.

RESEARCH INTERESTS AND EXPERTISE

- Established and Developed a Thermoacoustic Refrigeration system.
- Heat Transfer enhancement, experimentation on Thermoacoustics, heat exchangers, pressure sensors.
- Composite Materials.
- Published many research articles in various reputed International and national journals

SUBJECT & FIELD OF SPECIALIZATI-ON

- Mechanical Engineering
- Manufacturing Technology
- Production Engineering
- Industrial Engineering
- Thermal Sciences and Composite Materials

EDUCATIONA-TIONAL QUALIFICATI-ON

Qualification	Branch/Stream	University/Board	Year
Ph.D.	Thermoacoustics cooling systems	VTU, Belagavi, Karnataka India.	2014
M.E.	Manufacturing Science and Engineering	Bangalore University, Karnataka, India	2001
B.E.	Industrial Production and Engineering	Bangalore University, Karnataka, India	1994

PROFESSIONAL EXPERIENCES

(I) Research Experience:

Worked on the research project entitled**:** "Design, Development and Performance Evaluation of Thermoacoustics cooling systems", All India Council for Technical Education (AICTE) funded project of Rs. 9.7 Lakhs at R&D Centre, B.M.S. College of Engineering, Bengaluru, India as a Principal investigator from March 2008 to February 2014.

(II) Teaching Experience :

Working as a Principal and Professor in the Department of Mechanical Engineering.

Worked as Vice-Principal (Academics & Administration) at B.M.S. College of Engineering, Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka India, since April 2003 to Till date.

(III) Industry Experience:

Worked as Manager in M/s Malu Group of Industries Bangalore, for a period of **09 years** from June 1994 to March 2003.

(IV) Academic & Administrative Activities :

- Actively involved in the advances in teaching learning methodology, outcome based education (OBE) in engineering curriculum.
- Expert in OBE and Accreditation process.
- Implementation of OBE & Accreditation in the college and Programmes by NAAC & NBA.
- Effective Implementation of NEP-2020 and progress.
- Provide conceptual knowledge to students and make them visualize the things.
- Identify the weak points of students and motivate them to achieve.
- Organize the industrial visit for students.
- Develop the curricular and extracurricular activities for students.
- Provide Educational Social and economic support to poor students.
- Conducting lectures and preparing the course material for students.
- Researching on different subjects like Thermal sciences and Manufacturing Technology.
- Collaborate with colleagues at Faculty Forum / Association as President to address their grievances / issues.
- Serving Faculty Forum / Association as President to deal with welfare of the employees.
- Acting as adviser to students as Proctor.
- Acting as adviser / mentor to many Social, Non-political and Participating in Department / campus and community events.
- Motivating the faculty to write and submit the research proposals to external funding agencies like DRDO, SERB, DST, VGST, AICTE etc.
- Motivating the faculty to publish research papers in good quality journals

/ publications.

- Initiated the modernization of classroom cum laboratories.
- Providing guidance to the students for developing their career as well as making them familiar with different career opportunities.
- Advising the students for making them efficient in their work.
- Preparing effective course material and utilizing it for the progress of students.
- Encouraging the students for preparing for higher studies and competitive examinations like UPSC, KPSC and others.
- Applying creativity and technical expertise to produce a high- caliber projects for the students.
- Guiding and monitoring the research scholars for completing their projects / research work with good publications and patents.
- Actively involved in organizing the National and International Conferences on Engineering and Technology.
- Responsible for getting 6 years NBA Accreditation to PG program M.Tech in Machine Design as HOD.
- Measures taken to upgrade and establish new laboratories to create State of Art Laboratories such as EME Lab, MMM Lab, Flow Lab, H.A.P Lab, H.M.T Lab, Mechatronics Lab, Design Lab, Machine Shop & CNC Lab etc. as HOD during 2017 to 2019.
- Upgraded and calibrated all the equipment's, machinery's by using in-house experts in the department.
- Effectively carried out managerial and administrative duties as Machine shop superintendent during the period from May 2005 to 2011 and 2014 to 2017.
- Planning, evaluating and revise curricula, course content, and course materials and methods of Instruction as Member / Chairman BOS and BOE
- Initiated felicitation program for staff and faculty members who rendered 25 years of service in BMS Institutions.
- As Principal at BMS Evening College of Engineering steps taken to improve the admissions and maintained the discipline in functioning the college.

- Under the able guidance and leadership responsible to get accredited by NAAC with highest grade of "A++" (3rd cycle) in 2024. BMSCE is proud to be first and only Engineering College in Karnataka accredited with highest Grade in three consecutive cycles of NAAC Accreditation.
- A Framework for the Effective Implementation of 21 Strategies for the Holistic Development of Institutional Growth.

(V) Courses Taught :

1) Elements of Mechanical Engineering
2) Basics of Thermodynamics
3) Elements of Engineering Drawing
4) Manufacturing Processes
5) Foundry Technology
6) Machine Drawing
7) Industrial Engineering and Management
8) Organizational Behaviors
9) Management and Entrepreneurship
10) Constitution of India and Professional Ethics

(VI) Laboratory Taught :

1) Energy Conversion Engineering Lab
2) Foundry and Forging Lab
3) Manufacturing Process Lab
4) Basic Work Shop Practices Lab, etc.

(VII) Membership of Professional Bodies:

- Lifetime Member Fellow (FIE) of The Institute of Engineers (India)
- Lifetime Member of Indian Society for Heat and Mass Transfer (ISHMT)
- Lifetime Member of Indian Society for Technical Education (ISTE)
- Lifetime Member of Indian Society for Fluid Mechanics and Fluid Power (FMFP)

(VIII) Career Summary:

✓ A progressive and multitalented Professor with extensive practical knowledge having **30** year of experience in Industry and Institution.

✓ Excellent knowledge of Mechanical Engineering / Technology and the innovative methodologies.

	✓ Proficient in managing the opportunities for students. ✓ Expert in offering up-to-date technological information. ✓ Highly proficient in both subject matter and application. ✓ Exceptional subject knowledge combined with a strong ability to impart practical knowledge.
(IX) Personality Traits:	✓ Excellent Presentation, motivational and leadership skills. ✓ Strong analytical, logical and mathematical skills. ✓ Ability to handle the students, Staff and Faculty members and resolve their issues and problems immediately. ✓ Ability to provide quality knowledge and guidance. ✓ Ability to take everybody into confidence and work together.

(X) KEY RESPONSIBILITIES WITHIN THE COLLEGE:

Sl No.	Responsibility	Period
1	Workshop Superintendent	May 2004 to 2011 and 2014 to 2017
2.	Head of the Department	May 2017 to May 2019
3.	Principal B.M.S Evening College of Engineering	April 2019 to Aug 2020
4.	Vice Principal (Academics)	31.01.2022 to 30.10.2022
5.	Vice Principal (Administration)	31.10.2022 to 31.06.2024
6.	**Principal**	**29.06.2024 to Till Date**

(XI) KEY RESPONSIBILITIES OUTSIDE THE COLLEGE:

Sl No.	Organization	Responsibility	Period
1.	Dr. Ambedkar Institute of Technology, Bengaluru – 560 056	Member, BOG	From 27.06.2025
2.	Visvesvaraya Technological University (VTU)	Member, Academic Senate	From 25.06.2025
3.	UVCE, Bangalore University (BU)	Member, Academic Expert	From 19.04.2025
4.	All India Council for Technical Education (AICTE)	Member, Standing Committee for Granting Autonomous Status	02.04.2025
5.	Visvesvaraya Technological University (VTU)	Member, Governing Council	From 22.03.2025
6.	Visvesvaraya Technological University (VTU)	Member, Steering Committee	From 22.03.2025
7.	Harsha Institute of Technology, Varadhanayakana Halli, Bengaluru – 560 074	VTU Nominee Scrutiny Committee	25.01.2025
8.	Don Bosco Institute of Technology, Kumbalagodu, Bengaluru – 560 074	VTU Nominee Academic Council	From 02.01.2025
9.	R.N.S. Institute of Technology, Channasandra, Bengaluru – 560 098	VTU Nominee Academic Council	From 02.07.2024
10.	Dr. Ambedkar Institute of Technology, Bengaluru – 560 056	VTU Nominee for faculty selection committee	From 13.05.2024
11.	Visvesvaraya Technological University (VTU)	Member Petition Enquiry	From 2024
12.	Defense Research and Development Organization (DRDO)	Departmental Promotional Committee Member	From 2021
13.	Visvesvaraya Technological University (VTU)	LIC Member	From 2020
14.	Gandhi Krishi Vigyana Kendra (GKVK) Bangalore	CAS Promotion Committee Member	2019-2020
15.	Social / Non-Political and Non-Governmental Organizations (NGO)	Mentor/ Advisor	From Student Days

(X) Ph.D. SCHOLARS:

Sl.No	Student Name	USN	Registration Year	Current Status
1	Shivakumara N V	1BM17PMA01	Feb-2017	Awarded in April 2021
2	Maharudra	1BM18PME07	Sept-2017	Awarded in Dec 2023
3	Pampapathi Gaddi	1BM18PME02	Oct-2017	In Progress
4	Sandesh N U	1BM19PVC06	Apr-2019	In Progress
5	Ramesh Mallappa	1BM21PME04	Feb-2023	In Progress
6	Parmeshkumar	1BM22PME05	Feb-2024	In Progress
7	Mallappa Komar	1BM22PME04	Feb-2024	In Progress

(XI) RESEARCH GRANTS:

Sl.No.	Funding Agency	Amount	Period
1*.	AICTE	9.70 Lakhs	2008 – 2014

* Established Thermoacoustic Laboratory in the Mechanical Engineering Department and produced 03 Ph.D's along with many UG / PG Projects (Annexure-I).

(XII) PATENTS:

Sl.No.	Title	Application Number	Cash award	Period
1*.	A heating Element for a Cooking apparatus using DC Power supply	201841014926	Rs. 5.00 Lakhs from Ministry of ONGC, GOI	2019

*****(Annexure-II).

(XIII)BEST PAPER AWARDS:

Sl.No.	Paper title	Publisher	Best paper award	Period
1*.	Effect of trapezoidal shapes on the thermal buckling behaviour of perforated composite plates.	American Journal of Materials Science, 2021 11(1), pp. 10-19, 10.5923/j.materials.20211101.02	37th Indian Engineering Congress held in Chennai	16th December 2022

*****(Annexure-III).

(XIV) WORKSHOPS / FDPs ATTENDED:

Title	From	To	Duration
AICTE sponsored Staff Development Program on **'Emerging Trends in Energy Sources'** at Ghousia College of Engineering, Ramanagara.	13/06/2011	24/06/2011	Two weeks
AICTE sponsored Industry Institute Partnership Cell Activity Faculty Development Program on **'Lab VIEW and its Applications in Engineering** at B.M.S College of Engineering, Bengaluru.	11/07/2011	16/07/2011	One week
VTU-VGST Faculty Development Program on **'Alternate Fuels for IC Engines** at P.D.A College of Engineering, Gulbarga.	12/03/2012	16/03/2012	One week
DST sponsored National Institute for Micro, Small & Medium Enterprises **Faculty Development Program in Entrepreneurship Development** at B.M.S College of Engineering, Bengaluru.	19/03/2012	30/03/2012	Two weeks
TEQIP-II sponsored Faculty Development Program on **'Biostatics and Bio-modeling using Software Tools'** at B.M.S College of Engineering, Bengaluru.	22/07/2013	26/07/2013	One week
TEQIP-II sponsored Workshop on **'MEMS and Nano Technology'** at B.M.S College of Engineering, Bengaluru.	19/08/2013	24/08/2013	One week
TEQIP-II sponsored Workshop on **'Japanese Management Techniques'** at B.M.S College of Engineering, Bengaluru.	26/08/2013	30/08/2013	One week
TEQIP-II sponsored Faculty Development Program on **'Intelligent Machines & Systems'** at B.M.S College of Engineering, Bengaluru.	20/01/2014	24/01/2014	One week
TEQIP-II sponsored Faculty Development Program on **'Developments in Hydraulic and Pneumatic Controls** at B.M.S College of Engineering, Bengaluru.	27/01/2014	31/01/2014	One week

TEQIP-II sponsored Workshop on **'Gas Turbine Technology and Current Challenges'** at B.M.S College of Engineering, Bengaluru.	21/03/2014	23/04/2014	Three days
TEQIP-II sponsored Faculty Development Program on **'Theoretical, Computational and Applied Mechanics'** at B.M.S College of Engineering, Bengaluru.	16/06/2014	20/06/2014	One week
TEQIP-II sponsored Workshop on **'Modelling Using Microsoft Office Excel** at B.M.S College of Engineering, Bengaluru.	21/07/2014	25/07/2014	One week

(XVII) RESEARCH PUBLICATIONS:

(i) INTERNATIONAL JOURNALS:

1. Venkatesh T lamani, Sudarshan B, Ramesh m Chalkapuri, **Bheemsha Arya**, Banjara Kotresh, "Investigation of combustion, performance and emission studies of HCCI engine operated with carbon free fuels, *Engineering Research Express*, Vol. 7, Issue 2 (2025), p. 025540. http://doi.org/10.1088/2631-8695/adcff7.
2. Maharudra, Rajanna T, **Bheemsha Arya**, "Effect of trapezoidal shapes and non-uniform edge loads on buckling behaviour of plates with cutouts", *Proceedings of Institutional of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, Vol. 236, Issue 7 (2022), pp. 3512-3529. https://doi.org/10.1177/09544062211022258.
3. Shivakumara N V, **Bheemsha Arya**, "Performance analysis of thermoacoustic refrigerator of 10W cooling power made up of poly-vinyl-chloride for different parallel plate stacks by using helium as a working fluid", *Journal of Thermal Science*, Vol. 30, Issue 6 (2021), pp. 2037-2055. https://doi.org/10.1007/s11630-021-1390-y.
4. Venkatesh T. Lamani, Adithya U. Baliga M, Ajay Kumar Yadav, Kumar G. N, Rudra Naik, **Bheemsha Arya**, "Optimum injection timings for bioethanol-diesel blends and its effect on tail pipe emission in common rail diesel engine", *In AIP Conference Proceedings*, Vol. 2316, Issue 1 (2021), pp. 030031, AIP Publishing LLC. https://doi.org/10.1063/5.0036569.
5. Maharudra, Rajanna T, **Bheemsha Arya**, "Influence of trapezoidal shapes and linearly

varying edge loads on the buckling characteristics of plates with cutouts", *Journal of The Institution of Engineers (India): Series C*. Vol. 102, Issue 5, (2021), pp. 1231-1249.

6. Maharudra, Rajanna T, **Bheemsha Arya**, "Thermal buckling behaviours of laminated composite trapezoidal panel under thermally induced loads", *American Journal of Materials Science*, Vol. 11, Issue 1 (2021) pp. 10-19. https://doi:10.5923/j.materials.20211101.02.
7. Maharudra, Rajanna T, **Bheemsha Arya**, "Effect of trapezoidal shapes on the thermal buckling behaviour of perforated composite plates", *Advances in Materials Science*, Vol. 21, No. 1 (67), (2021), pp. 10-26. https://doi: 10.2478/adms-2021-0002.
8. Maharudra., Rajanna T, **Bheemsha Arya**, "Influence of trapezoidal shapes and cutout sizes on the buckling behaviour of composite laminates under thermally induced loads", *Latin American Journal of Solids & Structures*, Vol. 18, Issue 3 (2021), pp.1-13. https://doi.org/10.1590/1679-78256331.
9. Maharudra, **Bheemsha Arya**, Rajanna T, "Buckling behaviour of composite laminates of trapezoidal panel with cutout subjected to non-uniform in-plane edge loads", *Materials Today: Proceedings*, Vol. 45, (2021), pp. 21-26. https://doi.org/10.1016/j.matpr.2020.09.224.
10. Maharudra, **Bheemsha Arya**, Rajanna T, "Effect of trapezoidal shaped laminated composite plate with and without cutout on vibration characteristics", *Materials Today: Proceedings*, Vol. 45, (2021), pp.34-40. https://doi.org/10.1016/j.matpr.2020.09.228.
11. Maharudra, **Bheemsha Arya**, Rajanna T, "Effect of ply-orientation and boundary conditions on the vibrational characteristics of laminated composite panels using HODST", *Materials Today: Proceedings*, Vol. 20, (2020), pp. 134-139. https://doi.org/10.1016/j.matpr.2019.10.062.
12. Shivakumara N V, **Bheemsha Arya**, "Effect of parallel plate stack spacing on the performance of thermoacoustic refrigerator in terms of temperature difference using air as a working fluid", *In Journal Physics: Conference Series*, Vol. 1473, Issue 1, p. 01205. IOP publishing, 2020.
13. Shivakumara N V, **Bheemsha Arya**, "Experimental performance evaluation of thermoacoustic refrigerator made up of poly-vinyl-chloride for different parallel plate stacks using air as a working medium", *Materials Today: Proceedings*, Vol. 22 (2020), pp. 2160-2171.

14. Shivakumara N V, **Bheemsha Arya**, "Performance evaluation of 10 W cooling power thermoacoustic refrigerator with spiral stacks using air and helium as working fluids" *Engineering Research Express*, Vol. 2, Issue 1 (2020), p. 015032.
15. Shivakumara N V, **Bheemsha Arya**, "Influence of parallel plate stack spacing on the temperature difference of Thermoacoustic refrigerator by using helium as a working medium", *International Journal of Recent Technology and Engineering (IJRTE)*, Vol. 8, Issue 4 (2019), pp. 2704-2712.
16. Shivakumara N V, **Bheemsha Arya**, "Effect of Spacing in a parallel plate stack on the performance of thermoacoustic refrigerator made up of PVC for an operating pressure of 8 made up of PVC for an operating pressure of 8", *Journal of Emerging Technologies and Innovative Research*, Vol. 6, Issue 1 (2019), pp. 1063-1069.
17. Shivakumara NV, Kapil Chhetri, Mayur P Kodikal, Myron Chris Menezes, **Bheemsha Arya** "Thermoacoustic refrigerator: A Review on design, fabrication and Performance" *Journal of Emerging Technologies and Innovative Research*, Vol. 5, Issue 7 (2018), pp. 848-854.
18. **Bheemsha Arya**, B Ramesh Nayak, N.V Shivakumara "Effect of Dynamic Pressure on the Performance of Thermoacoustic Refrigerator with Aluminium (Al) Resonator" *IMMT 2017 – In IOP Conference Series: Materials Science and Engineering*, Vol. 346, Issue 1, p. 012034. IOP publishing, 2018. http://doi:10.1088/1757- 899X/346/1/012034.
19. B Ramesh Nayak, G Pundarika, **Bheemsha Arya**, "Influence of stack geometry on the performance of thermoacoustic refrigerator", *Sadhaana*, Vol. 4, Issue 2 (2017), pp. 223-230.
20. **Bheemsha**, Ramesh Nayak, Pundarika, "Performance evaluation of thermoacoustic refrigerator using air as working medium", *SSRG International Journal of Thermal Engineering (SSRG-IJTE)*, Vo. 1, Issue 3 (2015), pp. 16-21. https://doi.org/10.14445/23950250/IJTE-V1I3P101.
21. **Bheemsha**, Harsha D N, Arvind Rao, "Study of sustainable utility of bio mass energy technologies for rural infrastructure and village power – Opportunities by developing bio village model", *International Journal Research in Engineering and Technology*, Vol. 3, Issue 1 (2014) pp.1 -7.
22. **Bheemsha**, Ramesh Nayak, Pundarika G, "Design of the resonator tube and buffer volume for thermos-acoustic refrigerator" *International Journal of Advanced Scientific & Technical Research*, Vol. 2, Issue 1 (2011), pp. 276-288.
23. **Bheemsha**, Ramesh Nayak & Pundarika.G, "Design of a parallel plate stack for a

thermoacoustic refrigerator" *International Journal of Advanced Scientific & Technical Research*, Vol. 2, Issue 1 (2011), pp. 1-20.

24. **Bheemsha**, Ramesh Nayak, Pundarika G, "Design and optimization of a thermoacoustic refrigerator", *International Journal of Emerging Trends in Engineering and Development*, Vol. 2, Issue 1 (2011), pp. 47-65.

*(Annexure-IV).

(XVIII) BOOK CHAPTER PUBLISHED:

1. Venkatesh Lamani, Ravi L, **Bheemsha Arya**, Rudra Naik, Rohan C, Srikanth P, Rajashekar Gowda M.D, R.S. Verma, "STATE OF ART TECHNOLOGIES IN AGRICULTURE AND RECOMMENDATION TO IMPROVE FARMER"S ECONOMY THROUGH SOLAR TREE CONCEPT" Recent Research in Agriculture for doubling of farmer"s Income, Book Chapter edited by Shampi Jain and Neeraj Verma 2023.

*(Annexure-V)

(XIX) NATIONAL AND INTERNATIONAL CONFERENCE:

1. Venkatesh Lamani, Ravi L, **Bheemsha Arya**, Rudra Naik, R S Verma, Rohan C, Srikanth P, Rajashekharegowda M D, "State of art technologies in agriculture and recommendation to improve farmer's economy through solar tree concept", *National Conference on Biotechnology and Sustainable Agriculture in Doubling of Farmer's Income* by 2022, Department of Agriculture Science, AKS University Sherganj, Panna Road, Satna – 485001 Madhya Pradesh, India.
2. Venkatesh T Lamani, Ravi L, L. Ravikumar, Rudra Naik, **Bheemsha Arya**, "CFD analysis of N- butanol - diesel blends and low temperature combustion in CRDI engine" has been accepted for presentation in the Proceedings of the *3rd National Aerospace Propulsion Conference (NAPC 2020)*, jointly organized by B.M.S. College of Engineering, Bengaluru & Gas Turbine Research Establishment, DRDO, Bengaluru under the auspices of National Committee on Air Breathing Engines on a digital platform during 17th – 19th , December, 2020.
3. Maharudra, Rajanna T, **Bheemsha Arya**, "Buckling behaviour of composite laminates of trapezoidal panels with cutout subjected to non-uniform in-plane loads", *ICAMMME-2020* held at Reva University Bengaluru during 10-11th July- 2020
4. Maharudra, Rajanna T, **Bheemsha Arya**, "Effect of trapezoidal shaped laminated composite plate with and without cutout on vibration characteristics", *ICAMMME- 2020* held at Reva University Bengaluru during 10-11th July-2020.
5. Venkatesh T Lamani, Rudra Naik, **Bheemsha Arya**, Ravi L,Abhishek J, Abhishek

Krishnan, Angshuman Bhattacharya, Nikhil Setty, "Fire Simulation of Car Park to Optimise Fire Ventilation System" has been accepted for presentation in the Proceedings of the 25thNational and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2019), 28th-31st December 2019, IIT Roorkee, Roorkee, India.

6. Venkatesh T Lamani, Rudra Naik, **Bheemsha Arya**, Ravi L, L Lokesh Kumar, Ashish SV, B.S Raviteja , Arun A, "Nanoparticles use for the effective hyperthermia of liver tumor" has been accepted for presentation in the Proceedings of the *25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2019)*, 28th - 31st December 2019, IIT Roorkee, Roorkee, India.
7. Shivakumara N V, Bheemsha Arya, "Effect of parallel plate stack spacing on the performance of thermoacoustic refrigerator in terms of temperature difference using air as a working medium" *ICTES 2019* held at BNMIT, Bengaluru during 23-24 December 2019.
8. Venkatesh T Lamani, Adithya U Baliga M, Ajay Kumar Yadav, Kumar G N, Rudra Naik, **Bheemsha Arya**, "Optimum injection timings for bioethanol-diesel blends and its effect on tail pipe Emission in common rail diesel engine", International Conference on *Advance Trends in Mechanical & Aerospace Engineering* (Theme: Research Innovation in Mechanical and Aerospace Technologies) from 7th – 9th November 2019 organized by Dayananda Sagar University, School of Engineering Hosur Main Road, Kudlu Gate, Bengaluru.
9. Maharudra, Rajanna T, **Bheemsha**, "Effect of ply-orientation and boundary conditions on dynamic behaviour of laminated composite panels", *35th National conference on Trends and Developments in Automotive Industries*, held at The IEI(India), Hosur local center during 4th - 5th Sept 2019.
10. Maharudra, Rajanna T, **Bheemsha Arya**, "Effect of ply-orientation and boundary conditions on the vibrational characteristics of laminated composite panels using HODST", *ICRRETMME-2019* held at Reva University Bengaluru during 12-13th July-2019.
11. Shivakumara N V, **Bheemsha Arya**, Effect of spacing in a parallel plate stack on the performance of Thermoacoustic Refrigerator made up of PVC for an operating pressure of 8 bar using air as a working medium. *NCIMIMP-2019* held at Dr.AIT, Bengaluru during June 7 - 8 of 2019.
12. Maharudra, Rajanna T, **Bheemsha Arya**, "Finite element formulation for static and dynamic analysis of laminated composite plates using HOSDT", National Conference on *Recent Trends in Science, Engineering and Management* held at Dr. AIT Bengaluru during 6th -7th June 2019.
13. Shivakumara N V, **Bheemsha Arya**, "Experimental performance evaluation of

thermoacoustic refrigerator made up of poly-vinyl-chloride for different parallel plate stacks using air as a working medium" *ICMMM-2019* held at VIT Vellore during 29th – 31st March 2019.

14. Venkatesh T Lamani, L.Ravi, **Bheemsha Arya**, "CFD Study of blood flow in carotid artery" in the Proceedings of the *7th International & 45th National Conference on Fluid Mechanics & Fluid Power (FMFP)* organized by Indian Institute of Technology-Bombay, Mumbai from 10th -12th December 2018.
15. **Bheemsha**, Pundarika G, Ramesh Nayak B, Rudra Naik, "Production of biodiesel from Jatropha for Diesel engines" *National Seminar on Advances in Automobile Engineering*, Pune 23&24 May 2009.
16. **Bheemsha**, Suresh S M, Rudra Naik, Pundarika G "Design of Resonator for thermoacoustic refrigerator" *National conference On emerging technologies in Mechanical engineering*. Krishna institute of Engineering and Technology Ghaziabad New Delhi, 27&28 June 2008.
17. **Bheemsha**, Pundarika G, Rudra Naik, Suresh S M & Pundarika G, "Thermodynamics Anaysis of Gas Turbine Cogeneration System", *International Conference on Recent Development in Mechanical Engineering*, 23-25 Janauary 2008 SUSCET Mohali, Chandighar.
18. **Bheemsha**, Pundarika.G, Rudra Naik, Suresh S.M & Pundarika.G. „Design Of Heat Exchanger For Thermoacoustic Refrigerator" *International Conference on Recent Development in Mechanical Engineering*, 23-25 Janauary 2008 SUSCET Mohali, Chandighar.
19. **Bheemsha**, Ramesh Nayak, RudraNaik, Pundarika G, "Production of jatropha oil and performance characteristics of a twin cylinder diesel engine using jatropha-diesel blend" International Conference on *I.C. Engines and Combustion*, Dec 6-9 2007. JNTUH, Hyderabad.
20. **Bheemsha**, Rudra Naik, Ramesh Nayak, Pundarika G, "Air-conditioning of cars using waste heat driven absorption system", *National Conference on Futuristic trends in Mechanical Engineering*, 13-14 September, 2007 at SUS College of Engineering & Technology, Mohali-Chandigarh.
21. **Bheemsha,** Rudra Naik, Ramesh Nayak, Pundarika G, "Structural analysis of chip substrate assembly", *National Conference on Futuristic trends in Mechanical Engineering*, 13-14 September, 2007 at SUS College of Engineering & Technology, Mohali-Chandigarh.
22. **Bheemsha**, Sheshadri T S, Rudra Naik, Pundarika G, "Experimental Study of Supersonic Impinging Jet on Flat Plate" National Symposium on Acoustics" *National Physical Laboratory.*15-17 November 2006. Jamia Millia Islamia Central University, New Delhi.

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24. **Bheemsha,** Suresh S M, Rudra Naik, Pundarika G, "Design of stack for thermoacoustic refrigerator" *National conference on recent advances in Mechanical Engineering*, 1-3rd December 2005, P. A. College of Engineering, Mangalore.
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I hereby declare that above information provided is true and correct to the best of my knowledge.

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Place: Bengaluru

Date: 18, July 2025