

SHANTHALA KOLLUR

#308, Shravanti Woods Apartment,
Nobonagar, Post SOS,
Bannerghatta Main Road, Bangalore-560076.

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Google scholar link:

<https://scholar.google.com/citations?user=64f2bxwAAAAJ&hl=en>

Scopus link:

<https://www.scopus.com/authid/detail.uri?authorId=58286378600>

linkedin:

<https://www.linkedin.com/in/shanthala-kollur-582840360/>



- Highly motivated, dedicated academician in Mechanical Engineering discipline.
- 25 years of teaching and research experience.
- Consistently handled subjects in Mechanical Engineering Program: Computer Aided Engineering Graphics, Mechanical Vibration, Control Engineering, Dynamics of Machines, Kinematics of Machines, Material Science, Manufacturing Science.
- Handling Introduction to Python Programming, AI&ML subjects for UG students
- Completed Advanced certification in Data science and AI
- Experience in running an Industry with CNC machines.
- Actively involved in all the administrative works apart from NAAC and NBA related works.
- Collaborating with Bhabha Atomic Research Centre for getting funds for project and lab facilities.
- BOE member VTU for the Academic year 2022-2023

Work Experience

- Professor and Head, Department of Mechanical Engineering at AMC Engineering College Bangalore (October 1 2021 to till date)
- Associate Professor, Department of Mechanical Engineering at AMC Engineering College Bangalore, for 7.5 years (Feb 2012 to Sept.2021).
- Assistant Professor, Department of Mechanical Engineering at AMC Engineering College Bangalore, for 5 years (Feb 2007 to Jan 2012).
- Lecturer, Department of Mechanical Engineering at City Engineering College Bangalore, for 03 months (March 2006 - June 2006).
- Lecturer, Department of Mechanical Engineering, FCRIT, Agnel Technical Education, Vashi, Navi Mumbai., for 9 years (Oct 1994 – Aug 2003).

Academic Qualifications:

Qualification	Specialization	Institution/University	Class/Grade	Month/Year
Ph.D.	Mechanical Engineering (Dissimilar material joining)	VTU-Belagavi Karnataka	Awarded	April 2019
M.TECH.	Materials Engineering	NITK, Surathkal , Karnataka	CGPA: 8.79	August 2005
B.E.	Industrial Production Engineering	BIT, Bangalore Karnataka	First class (66%)	July 1993
PUC	PCMB	Pre-University Board Karnataka	First class (76.3%)	May 1989
SSLC	Karnataka State Syllabus	Karnataka Secondary Education Board	First class (79.5%)	April 1987

Professional Membership

- Life Member of ISTE, from 1996, Membership Number LM 22786

Grants / Scholarships/Awards

- AICTE sanctioned grant of Rs. 4,48,333 (**Rupees Four Lakh Forty-eighth Thousand**) for conduct of Faculty Development Program (FDP) under AQIS 2019-20 during the financial year 2020-21.
- Received **GE-Scholarship (Rupees Two lakh)** from General Electric-Bangalore for Academic Excellence at NITK-Surathkal, during 2003- 2005.
- Received **National Merit Scholarship award –Govt. of Karnataka** -1987.
- Received **Best Teacher Award** at AMC Engineering College for two years. (2010-2011 and 2011-2012).
- Grant of Rs.7000/- (Rupees Seven Thousand) for KSCST student project -42 Series 2018-2019.
- Topper (2%) with gold certificate in NPTEL Data Mining course
- Silver certificate in NPTEL Machine learning course.
- Project on“ Hand/Back Exoskeleton for passive/active rehabilitation recognised by Visvesvaraya Technological University

Research Activities

- **Doctoral Thesis:** Research on “Experimental investigation and simulation studies on electromagnetic welding of dissimilar materials (Experiments conducted at Bhabha Atomic Research Centre-Mumbai), under the guidance of Dr.T.N.Sreenivasa, AMCEC-Bengaluru, Co-guidance of Dr.H.N.Narasimha Murthy RVCE-Bengaluru.
- **M.Tech. Thesis:** Research on Thermo Hydrogen Processing-Joining of Titanium Alloys, (Experiments carried at Bhabha Atomic Research Centre-Mumbai.) under the guidance of Dr. Jagannath Nayak-NITK Surthkal.

- Rejection Analysis of Compressor Housing Assembly carried out at HAL Aero Engine Division, Bangalore.
- Presented 15 Technical papers including two papers at **IIT-Madras** and **Bhabha Atomic Research Centre- Mumbai**.
- Published 22 Technical papers in Journals of repute with **SCI-Index** and Scopus Index.

Publications

a. Book /Book chapter:

Books	
1	Book on“ INDUSTRIAL ENGINEERING ” Published by: REST Publisher, India, ISBN : 978-81-978468-5-4 , 2024
2	Book on “ Competitive and Discrete part Manufacturing ” Published by: AGPH Books) ISBN-978-93-95468-09-1 , 2022.
3	Book on “ Recent Trends in Materials Science and Engineering ”, LAP LAMBERT Academic Publishing (12 July 2023) ISBN: 978-6206184911
Book Chapters	
1	Book Chapter on “ Joining of Similar/Dissimilar materials by Electromagnetic Force ” in a book titled Joining Processes for Dissimilar and Advanced Materials , ISBN: 9780323853996, publisher: Woodhead Publishing Elsevier (1st Edition - November 13, 2021)
2	Book Chapter on “ Carbon Nanomaterials for Energy Storage ” (Chapter 36) Materials for Sustainable Energy Storage at the Nanoscale ISBN 9781003355755,2023, (Taylor and Francis)-(21 July 2023)

b. National/International Journals :

1.	Shanthala Kollur , T. N. Sreenivasa, R. Krupa, T. H. Manjunatha, M. K. Venkatesh, M. N. Gururaja, B. S. Smitha, Habib Masum, C. Hemanth Kumar & C. Durga Prasad, Influence of Discharge Energy and Residual Stress in an Electromagnetically Welded Aluminium-PVC Tubular Joints. <i>J. Inst. Eng. India Ser. D</i> (2025). https://doi.org/10.1007/s40033-025-00913-x
2.	Shanthala Kollur , ShivaPrakash S, Jasti Surendra, G.S. Pradeep Kumar, R. Suresh Kumar, C. Durga Prasad, Pavan Kumar B K, Sandeep Kore, Nusrathulla M, “Investigation of corrosion behavior of Cenosphere reinforced iron based composite coatings” ,Results in Surfaces and Interfaces, Volume 17,2024
3.	Shanthala K. , Gajanan M. Naik, Akshit Kochhar, Ramesh S., Sadashiv Bellubbi, “Joining of aluminum tube to PVC pipes through electromagnetic force”, Materials Research Proceedings 55 (2025) 130-135, Materials Research Forum LLC, https://doi.org/10.21741/9781644903612-19 - Scopus with Q4

4.	Gajanan M. Naik, Shanthala K , Sadashiv Bellubbi, Chirag L.,Devendra Gowda Suresh Poyil Subramanyam, “Structural evaluation of microwave butt welded MONEL 400 sheets through finite element analysis”, Materials Research Proceedings 55 (2025), ,110-117, Materials Research Forum LLC, https://doi.org/10.21741/9781644903612-17-Scopus with Q4
5.	Shivaprasad D , Ashok Kumar M S , Shanthala K , Byrareddy B , Satheesha V, “Influence of Mechanical Properties on Al5083Metal Matrix Composites”,International Journal of Engineering Technology and Management Sciences, Vol.9, Issue: 3,May - June – 2025 DOI:10.46647/ijetms.2025.v09i03.020
6.	Shanthala Kollur , G. Veerasha, S. M. Pushpavathi, K. Vanitha, R. Krupa,Amit Kumar, K. R. Varun,Y. Madhavi, “Elevated Temperature Stress Analysis of Cobalt-Based Composite Cladding by Microwave Process on Gas Turbine Rotor Blade Using FEA”, J. Inst. Eng. India Ser. D https://doi.org/10.1007/s40033-024-00691-y (Published online 26 March 2024)
7.	Shanthala Kollur , K. V. Manjunath,C. Durga Prasad, B. Byra Reddy, K. S. Rudra,Prakash Kumar, C. R. Aprameya, “Evaluation of Microstructural and Mechanical Properties of Triballoy based Composite Cladding by Microwave Heating” J. Inst. Eng. India Ser. D https://doi.org/10.1007/s40033-024-00670-3 (Published online 7 March 2024)
8.	Shanthala K , Sreenivasa T.N., Hitesh Choudhury, Shantharam Dond and Archana Sharma, “Analytical, Numerical and Experimental Study on Joining of Aluminium tube to Dissimilar Steel Rods by Electro Magnetic Pulse Force” Journal of Mechanical Science and Technology- Springer ,32 (4) ,2018, pp.1725~1732.
9	C. Durga Prasad, Shanthala Kollur , C. R. Aprameya, T. V. Chandramouli, T. Jagadeesha & B. N. Prashanth, “Investigations on Tribological and Microstructure Characteristics of WC-12Co/ FeNiCrMo Composite Coating by HVOF Process”,JOM, Vol.75, No.9, 2023 , https://doi.org/10.1007/s11837-023-06242-2
10	Haridasa Nayak, Shanthala Kollur , K. Prasad, Suresh Erannagari, C. Durga Prasad, N. Nagabhushana, “Development of Equal Proportional YSZ + Al ₂ O ₃ Thermal Barrier Coating and Effect of Coating Thickness on the Corrosion Behaviour on Cast Iron Substrate” High Temperature Corrosion of Materials (Formerly Oxidation of Metals Journal) https://doi.org/10.1007/s11085-024-10222-5 .
11	C. Durga Prasad, S. Kollur , M. Nusrathulla, G. Satheesh Babu, M. B. Hanamantraygouda, B. N. Prashanth & N. Nagabhushana, Characterisation and wear behaviour of SiC reinforced FeNiCrMo composite coating by HVOF process” Transactions of the IMF, Published online: 18 Sep 2023, DOI: 10.1080/00202967.2023.2246259 (2023)
12	K. Shanthala , B. M. Chandrakala, N. Shobha and D. Deepashree, "Automated Diagnosis of brain tumor classification and segmentation of MRI Images," pp. 1-7, Published in IEEE Xplore (Online) , (2023), doi: 10.1109/IC-RVITM60032.2023.10435084.
13	Madhu Sudana Reddy G., Durga Prasad C., Shanthala Kollur , Lakshmikanthan Avinash , Suresh Kumar R. , Aprameya C. R. “Investigation of High-Temperature Erosion Behavior of NiCrAlY/TiO ₂ Plasma Coatings on Titanium Substrate” JOM, (Online First), May 2023 ,

	10.1007/s11837-023-05894-4
14	M. Arunadevi R. Shivashankar, C. Durga Prasad, Rajesh Baitha, R. Suresh Kumar, Ranjeet Kumar Choudhary, Shanthala Kollur , Kaustubh R. Kapadani, S. ShivaPrakash, “ Predictive wear analysis of SS316L fabricated by direct energy deposition using machine learning techniques ” International Journal on Interactive Design and Manufacturing (IJIDeM), Vol 1, Online: 6 September 2024 https://doi.org/10.1007/s12008-024-02096-3
15	K. Shanthala , Ajit M. Hebbale, C. Durga Prasad, M. Muralidhar Singh, H. Harish, Shashank Karigowda “Analysis of high velocity forming of metallic tubes” Materials Today Proceedings, Elsevier, 13 May 2023 (Online) https://doi.org/10.1016/j.matpr.2023.04.647 . year 23-24
16	Shanthala K , Sreenivasa T.N., H.N.Narasimha Murthy, Hitesh Choudhury, Shantharam Dond and Archana Sharma “Joining of Tubular Steel-Steel by Unconventional Magnetic Pulse Force” Bulletin of Materials Science-Springer 40 (260), pp 1-7 2019
17	H. Nayak, K. Shanthala , M. K. Venkatesh and L. Chirag, "Correlation of Microhardness with Abrasive Wear of Thin Films: A Machine Learning Approach," pp. 1-5, Published in IEEE Xplore (Online) , (2023), doi: 10.1109/IC-RVITM60032.2023.10435163
18	Shanthala K and Sreenivasa T.N., “Review on Electromagnetic Welding of Dissimilar Materials”, Frontier of Mechanical Engineering, Springer, 11 (4), 2016, pp. 363-373.
19	Shanthala K and Sreenivasa T.N., “Analysis of the Electromagnetic Impulse Technology for Joining of Aluminium Tube to Coated Steel Rod” Materials Today Proceedings, Elsevier , 5, 2018, pp. 2512–2517.
20	Shanthala K , Sreenivasa T.N., Hitesh Choudhury, “Electromagnetic Pulse Welding for Joining of Aluminium Tube to Uncoated and Copper Coated Steel Rod” The Journal of CPRI , 13 (01) 2017, pp. 125-129.
21	Shanthala K , Sreenivasa T.N., Hitesh Choudhury, Shantharam Dond “Analysis of the Joining Process for Dissimilar Tubular-Rod Structures by High Speed Electro Magnetic Pulse Force” Published in IEEE Xplore (Online) , (2017), ISBN: 978-15090-5960-7 .
22	Shanthala K. and Sreenivasa T.N., “Non-Conventional Solid State Joining of Structural Materials” International Journal of Research in Engineering and Technology, Mar 2017, Vol. 6, Issue 2, Page 46-48, pISSN: 2321 – 7309.
23	Shanthala K. and Sreenivasa T.N., “Stress Analysis of Field Shaper in Electro-Magnetic Welding.” International Journal of Scientific Research, 2015 May, Vol. 4, Issue 5, Page 3-5, ISSN: 2277 – 8179. (IF 4.176).
24	Shanthala.K, Sreenivasa T.N. , “Interface Morphology in Electromagnetic Welded Aluminium-Stainless Steel Tubular Structure” <i>International Journal of Innovative Research Advanced Engineering</i> , vol.6, issue 6, 2019.
25	Shivaprasad D, M.G Anantha Prasad, T.P Bharathesh, Shanthala K. , “A Review on Actions of Chills on Microstructure, Mechanical, Corrosion and Tribological Behaviour of Nickel and Aluminium Based Metal Matrix Composites” JETIR February 2020, Volume 7, Issue 2, Pages 82-85.
26	M. Muralidhar Singh a, Ajit M. Hebbale, C. Durga Prasad, H. Harish, Manish Kumar, K. Shanthala “Design and Simulation of Vertical Axis Windmill for Streetlights” Materials Today Proceedings, Elsevier, 13 April 2023 (Online)

	https://doi.org/10.1016/j.matpr.2023.04.647 . https://doi.org/10.1016/j.matpr.2023.03.729 3 22-23
27	M.Arunadevi, Yashwanth H Koppal, Pradhyumna M Vasista, Shanthala Kollur , Chirag Lakshminarayana, A.Hameed, “Elimination of experimentation cost and time by data analysis in mechanical property prediction of aluminum alloys” <i>Materials Today: Proceedings</i> ,16 September 2023 https://doi.org/10.1016/j.matpr.2023.09.115 (2023) 4 23-24
28	N. Praveen, U. S. Mallik, A. G. Shivasiddaramaiah,N. Nagabhushana, C. Durga Prasad, Shanthala Kollur “Effect of CNC End Milling Parameters on Cu-Al-Mn Ternary Shape Memory Alloys using Taguchi Method” <i>Journal of The Institution of Engineers (India): Series D</i> ,20 November,2023 doi.org/10.1007/s40033-023-00579-3 23-24

c. National/International Conferences:

1	Shanthala Kollur , Likitha A.M., Prem Kumar Raga, Venkatbaba Yemineni, Hemanth Kumar K, presented paper on “ Domain-Adaptive Stressor Identification Using Fine Tuned BERT and NER Techniques ”, International Conference on Digital Technology and Engineering (ICDTE -2025) 16th & 17th October, 2025 at RVITM Bangalore.
2	Shanthala Kollur , Shriya Hosangadi, Srinidhi Avantikaa, Venkatbaba Yemineni, presented paper on “ Machine Learning and Reinforcement Learning for Adaptive Exoskeleton Design Using Motion Capture Data ”, International Conference on Digital Technology and Engineering (ICDTE -2025) 16th & 17th October, 2025 at RVITM Bangalore.
3	Shanthala Kollur , Venkatbaba Yemineni, presented paper on “ Leveraging generative adversarial networks for age invariant Face ” International Conference on Digital Technology and Engineering (ICDTE -2025) 16th & 17th October, 2025, at RVITM Bangalore.
4	Madhura J., Rajeshwari J., Shalini K.B., Bharath B.C., Shanthala Kollur , presented paper on “ SafeHer: A Smart Safety Device Designed for Women’s Protection ” International Conference on Digital Technology and Engineering (ICDTE -2025) 16th & 17th October, 2025, at RVITM Bangalore.
5	Shalini K B, Madhura J, Bharath B C, Preethi Lokesh, Shanthala Kollur , presented paper on “ Tomato Disease Detection Using Different Convolution Neural Network Models ” International Conference on Digital Technology and Engineering (ICDTE -2025) 16th & 17th October, 2025, at RVITM Bangalore.

6.	Shanthala Kollur , Shivaprasad, Meena Deshpande, presented paper on “ Design and Development of a Motorized Exoskeleton Arm for Rehabilitation ” at Sixth International Conference on Recent Trends in Applied and Computational Mathematics, ICRTACM-2025 at REVA university on 09th and 10th October 2025.
7	Shanthala K , Shivaprasad presented paper on “Influence of Mechanical properties on Al5083 Metal matrix composites” , at ICRCESM-2025, organised by Ramachandra College of Engineering(A),Eluru, Andhra Pradesh, in collaboration with RSP, Research Hub, Coimbatore held on 30th and 31st May 2025.
8	Shanthala K , Shivaprasad presented paper on “Mechanical Characterisation of Aluminium based Hybrid MMCs” at 38 th National convention of Metallurgical and Materials Engineering and National seminar on Capacity building in process Metallurgy, 26-27 July 2025 organised by NIT-Rourkela and The Institute of Engineers (India)
9.	Shanthala K. , Gajanan M. Naik, Akshit Kochhar,Ramesh S., Sadashiv Bellubbi, “Joining of aluminum tube to PVC pipes through electromagnetic force”,Materials Research Proceedings 55 (2025) 130-135 (Materials Joining and Manufacturing Processes: MJMP 2025), Materials Research Forum LLC, https://doi.org/10.21741/9781644903612-19
10.	Gajanan M. Naik, Shanthala K , Sadashiv Bellubbi, Chirag L.,Devendra Gowda Suresh Poyil Subramanyam, “Structural evaluation of microwave butt welded MONEL 400 sheets through finite element analysis”,Materials Research Proceedings 55 (2025) ,110-117, https://doi.org/10.21741/9781644903612-17
11.	Dr.Chandrakala, Dr.Shanthala “AI Based Pathology Detection and Localization in Chest X-Ray Using Parallelized Multiple DCNN” , Alliance Doctoral Research and Innovation Symposium (ADRIS-2024),on 13-14 December 2024 at Alliance university Bengaluru.
12.	Dr.Chandrakala, Dr.Shanthala “Development of Women’s Safety System Using IoT and Taser Technology”, Alliance Doctoral Research and Innovation Symposium (ADRIS-2024),on 13-14 December 2024 at Alliance university Bengaluru.
13	Hameed A, Akash N,Kiran G, Gajanan M Naik, Ramesh S, Shanthala K , Priyaranjan Sharma, “Optimization of Process Parameters in CNC Turning using Taguchi Method,” National Conference on Digital Technology & Engineering on 2nd & 3rd May 2024, RVITM-Bengaluru.
14	Sujay J, Justinraj Immanuel, Shanthala K , Gajanan M Naik, Priyaranjan Sharma, Mohan Kumar, “CNC Turning Process Parameter Optimization through Machine learning Approach,” National Conference on Digital Technology & Engineering on 2nd & 3rd May 2024, RVITM-Bengaluru.
15	Vineet J, Shreyas G, Kishor M, Manoj Gowda, Shanthala K , Gajanan M Naik, Gajanan Anne., “Effect of welding parameters on joint strength in Microwave hybrid Welding of Monel -400 Metal Sheets -An AIML approach,” National Conference on Digital Technology & Engineering on 2nd & 3rd May 2024, RVITM-Bengaluru.

16	Shreyas G, Kishore M, Manoj Gowda, Shanthala K , Gajanan M Naik, Gajanan Anne, “Structural Evaluation of Microwave Butt Welded MONEL 400 Sheets through Finite Element Analysis,” National Conference on Digital Technology & Engineering on 2nd & 3rd May 2024, RVITM-Bengaluru.
17	Sujay J, Justin, Gajanan M Naik, Shanthala K , “CNC Turning Process Parameter Optimization through Machine learning Approach,” 10th National Conference on “Advancements in Information Technology” NCAIT-2024 organized by department of Information Science and Engineering JSSATE Bengaluru, on 30th April 2024.
18	Shanthala K , Chandrakala B M, Shobha N, Deepashree D., “Automated Diagnosis of brain tumor classification and segmentation of MRI Images” 2023 IEEE-International Conference on the Confluence of Advancements in Robotics, Vision and Interdisciplinary Technology Management at RVITM, held on 28 th and 29 th November 2023 RVITM-Bangalore
19	Haridasa Nayak, Shanthala K , M.K. Venkatesh, Chirag L, “Correlation of Microhardness with Abrasive Wear of Thin Films: A Machine Learning Approach” 2023 IEEE-International Conference on the Confluence of Advancements in Robotics, Vision and Interdisciplinary Technology Management at RVITM , held on 28 th and 29 th November 2023 RVITM-Bangalore
20	Shreedhar, Anand, Hemanth, Dr.K.Shanthala “Development of Arduino assisted motorized Prosthetic arm” National conference on Digital Technology and Engineering held on 28 th and 29 th April 2023 RVITM-Bangalore
21	Shanthala.K , Sreenivasa T.N., “Interface Morphology in Electromagnetic Welded Aluminium-Stainless Steel Tubular Structure” Presented at 4 th National Conference on Recent Trends in Mechanical Engineering , held on 21 st and 22 nd June 2019 VIT-Bangalore.
22	Shanthala K , Sreenivasa T.N., H.N.Narasimha Murthy, Hitesh Choudhury, Shantharam Dond and Archana Sharma “Joining of Tubular Steel-Steel by Unconventional Magnetic Pulse Force”, Presented at International Conference MTECS-2018 , Bhabha Atomic Research Centre Mumbai , Sept.26-29, 2018.
23	Shanthala K. , Sreenivasa T.N., Hitesh Choudhury, “Electromagnetic Pulse Welding for Joining of Aluminium tube to Uncoated and Copper Coated Steel Rod”, Presented at International Conference ACED, IIT Madras, Dec 8-10, 2016.
24	Shanthala K , Sreenivasa T.N., Hitesh Choudhury, Shantharam Dond “Analysis of the Joining Process for Dissimilar Tubular-Rod Structures by High-Speed Electro Magnetic Pulse Force”, Presented at International Conference IEEE-ICIMIA 2017, DSCE-Bengaluru, Feb.21-23, 2017
25	Shanthala K. and Sreenivasa T.N., “Non-Conventional Solid State Joining of Structural Materials”, Presented at National Conference NSRS-2017, AMCEC Bengaluru, March 16-17, 2017.
26	Shanthala K. and Sreenivasa T.N., “Analysis of the Electromagnetic Impulse Technology for Joining of Aluminium Tube To Coated Steel Rod” Presented at International Conference ICAMA 2016, BMSEC , Bengaluru, June 15-17, 2016.
27	Shanthala K. and Sreenivasa T.N., “Parametric Evaluation of Electromagnetic welding of Dissimilar Materials” Presented at International Conference ICMMT 15, VVIT-Bengaluru, Nov 05-07, 2015. (McGraw Hill Education Publications. ISBN 9789385880759.)

28	Shanthala K. and Kiran “Analysis of metal tube forming process facilitated by high velocity deformation”, Presented at MAHAYANTRA- 16 at DSCE-Bangalore, 6-7 July 2016.
29	Shanthala K. “Temporary hydrogenation of titanium and titanium alloys”, Presented at National Conference on Advances in Mechanical Engineering at AMCEC –Bangalore, 16th May 2014.
30	Shanthala K., Jagannath Nayak, Bhanuprakash “Diffusion Bonding of CP Ti/304SS through TiH ₂ interface layer” Presented at International conference ICCOMIM-12, at MSRIT-Bangalore,11-12 July 2012.
31	Shanthala K. “TIG welding of Ti-6Ti-4V alloy under different shielding environments”, Presented at National Conference ETME-12, 2012 at Rajarajeshwari College of Engineering-Bangalore.
32	Shanthala K. Jagannath Nayak, Bhanuprakash “Micro structural Changes in TIG welded Titanium Alloys under Temporary Hydrogenation”, Presented at PMRTA-2004, BARC, Mumbai, Dec 2-3,2004.

d. Patent:

1	Published: Autonomous Electric Vehicles Auto Monitor and Control-(Filed and published _Application number: 202241015720).
2	Granted: Title: Multi use agricultural machine for seeding, ploughing and pesticide spraying, Design No.372743-001, Filing 18/10/2022, Journal No is 02/2023 and Journal Date is 13/01/2023.
3	Shanthala K. Design Granted: Title: Agriculture Pesticide distributing machine, Design No. 402092-001, Filing date 13/12/2023, Issuing date 16/02/2024
4	Shanthala K. Design Granted:Title : “Smart Force Indicating Toggle Lever Clamp” Design No: 437732-001. Granted on 07.02.2025
5	Shanthala K. Design Granted:Title : “Electrical Parameter Measuring Device For Electric Vehicles” , Design No. : 442355-001 Granted on 11/03/2025.

Seminar delivered at RVITM

- Delivered seminar on “Becoming an Entrepreneur: Path to Success” event as part of NDLI-Club at RVITM-Bangalore.
- Delivered seminar on “Tech Streets: Decoding Entrepreneurship Realities in India” event as part of NDLI-Club at RVITM-Bangalore.

Expertise and Skills

- Full time research carried out at Bhabha Atomic Research Centre.
- Research on diffusion bonding of Titanium alloys both similar and dissimilar materials.
- Experimental work on thermo hydrogen processing of titanium alloys.

- Research on joining of aluminum/ steel, steel/steel, aluminum/plastic by electromagnetic force.
- Operated Electron probe micro analyzer (EPMA)
- Knowledge on analysis of data from Scanning Electron microscopy and Transmission Electron microscope.
- Experienced in materials characterization
- Data analysis, report writing, presentations and publishing the findings.

Software Proficiency

- PYTHON
- SQL
- COMSOL
- SOLID EDGE / SOLIDWORKS
- MATLAB
- CNC PROGRAMMING

Other Achievements

- Successfully run a Microscale Mechanical based -Industry at Bangalore.
- Cleared **GATE** two times (1994 and 2001)
- Project on design and fabrication of magnetic shock absorber as a power generating unit was selected and exhibited at Jedi-I, project challenge event at Indian Institute of Science, Bangalore.
- Project on Pick and place pneumatic robotic arm won first prize at project exhibition held at DSCE-Bangalore an intercollegiate project exhibition event.
- Project on development of sustainable packaging material was sponsored under KSCST, Govt.of Karnataka.
- Peer reviewed the work of other researchers for reputed journals.

Administrative/Institute Activities

- Organized AICTE sponsored FDP on 3D Printing Technology in Engineering Education and Research, 20th Sept to 1st October 2021
- Working as head and coordinating activities of the department since September 2021. (Worked as Head at ME-department at AMCEC for one semester during 2014-2015).
- Actively involved in all the criteria of NAAC and NBA at AMCEC.
- Chairmen of Internal Complaint Committee VTU
- Member of many committees of the college activities like magazine, discipline, training, ERP etc.

Open Online Courses Completed

❖ NPTEL Courses

- Course on Reinforcement Learning completed with **Elite** certificate
- Course on Deep Learning completed with **Elite-Silver** certificate

- Course on Machine Learning completed with **Elite-Silver** certificate
 - Course on “Data Mining” completed with **Elite-Gold** certificate and **Course topper (2%)**
 - Course on “Python with Data science” completed with **Elite** certificate
 - Course on “NBA Accreditation and Teaching Learning in Engineering NATE” completed with **Elite-Silver** certificate and **Course topper (10%)**
 - Material Characterization
 - Effective Writing
 - Patent drafting for beginners with **Elite-Silver** certificate
- ❖ **Coursera Courses**
- Course on Material Processing
 - Course on Materials Science: 10 Things Every Engineer Should Know
 - Aerospace materials
 - Data Science Math Skills
 - Nanotechnology: A Maker’s Course
 - Renewable Energy Technology Fundamentals
- ❖ UGC-Approved Short-term Professional Development Programme on ‘Implementation of NEP-2020 for University and College Teachers’
- ❖ MATLAB Onramp certification
- ❖ MS SQL Developer Course

Personal Information

Date of Birth:	07/01/1972
Sex:	Female
Nationality:	Indian
Spoken Languages:	English Kannada Hindi
Permanent Address:	Shanthala K. 308, Shravanthiwoods Apartment Nobonagar, B.G.Road Bangalore-560076.

I hereby inform that the detail furnished above is true to the best of my knowledge.

Place: Bangalore
Date: 29/05/2024

Shanthala K.

References

1. Dr.Archana Sharma
Outstanding Scientist
Professor, HBNI,
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Bhabha Atomic Research Centre Mumbai-85
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2. Dr. (Mrs) Betty C.A.,
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Associate Professor, HBNI,
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4. Dr.A Ramachandra
Professor and Ex-Principal
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