

# Curriculum Vitae

**SURESH E** Suresherannagari.mech@bmsce.ac.in

Asst Professor Department of Mechanical Engineering, B M S College of Engineering, Bangalore-560 019



## **Scholistic Credentials:**

DEC 2010: Registered for Ph.D at S.M.B.S, Vellore Institute of Technology, Vellore.

JAN 2008: Master of Engineering (Machine Design) UVCE, Bangalore, Karnataka, Affiliated to Bangalore University.

MAR 2005: Achieved 92 percentile in GATE\_2005.

JUNE 2003: Bachelor of Technology (Mechanical Engg)

R G M Institute of technology, Nandyal, Kurnool dt,  
Andhra Pradesh, India

Affiliated to Jawaharlal Nehru Technological University (JNTU) & NBA Certified  
Hyderabad, Andhra Pradesh, India

## **Positions held:**

- Assistant Professor in Mechanical Engineering Department, BMSCE, Bangalore  
Duration: Sept 2011 to till date
- Assistant Professor in Mechanical Engineering Department, PESIT south campus, Bangalore  
Duration: Jun-2009 to Aug2011
- GTE HCL Technologies Ltd for 2 years.
- Dy Supdt APSRTC from 2003-2005.

## **Additional Responsibilities:**

- Member DPC, Dept. of Mechanical Engineering, BMSCE.
- Placement Coordinator, Dept. of Mechanical Engineering, BMSCE.
- Faculty in charge for EME lab, Dept. of Mechanical Engineering, BMSCE.

## **Research Interests:**

- Polymer Composites.
- Mechatronics.
- Automotive.
- Design Optimization
- Product Design and Manufacturing.

## **Projects Undertaken:**

1. Design optimization studies in sandwich Composites Present research work.
2. Design and Fabrication of vortex tube: It is a Portable device used to both cooling and warming of food products simultaneously, in an industrial canteen, by using surplus compressed air.
3. Design of light weight composites for energy absorption applications. Poly Urethane foams sandwiched with MS wire mesh are subjected to static and dynamic loading and their energy absorbing capacity is enhanced with different mesh orientations and spacing. The optimization of the model is done using the analysis results obtained by solving the problem in LS-Dyna.

4. Design of Press tool at Nash Industries, Peenya Bangalore for M.E mini project.

## **INDUSTRIAL TRAININGS:**

- ❖ Trained on Design of press tools at Nash Industries Ltd, Peenya, , Bangalore.
- ❖ 1 week service training on Maintenance and Repairs of Tata vehicles at TATA MOTORS, Pune.
- ❖ 2 weeks service training on Maintenance and Repairs of Ashok Leyland vehicles at ASHOK LEYLAND, Chennai.
- ❖ 1 week programme on health care and medical devices offered by LSH, HCL Technologies.

## **Softwares Known:**

- AUTO CAD
- ANSYS FEA PACKAGE
- MS OFFICE
- SOLID EDGE

Laboratories Handled

1. Material testing Lab
2. CAED LAB
3. Energy Conversion Engineering Lab.
4. Machine Shop
5. EME lab
6. FM Lab.
7. Design Lab
8. MFE Lab
9. Foundry and Sand testing Lab

## **Subjects Handled:**

1. Elements of Mechanical Engineering
2. Computer Aided Engineering Drawing
3. Machine Drawing
4. Mechatronics
5. Basic Thermodynamics
6. Design Of Machine Elements-I
7. Design Of Machine Elements-II
8. Solar Energy
9. Product Development and manufacturing
10. Automotive Engineering
11. Solar Energy

## **Workshops attended:**

- ❖ FDP on “Research methodologies” Organized by *National Institute of Technology*, Calicut.
- ❖ Successfully completed Six sigma green belt certification in Aug 2012
- ❖ FDP on “Aerospace Vehicles” Organized by *K.S.G.I. Bangalore*. In Feb 2011.
- ❖ One Day Workshop on “Nano Materials and Technology” Organized at University Visvesvaraya College of Engineering, Bengaluru, on 15<sup>th</sup> March 2007

## **Papers presented / Publications**

1. “Modelling and simulation of PU Foam for Energy Absorption Applications” for TEAMTECH-07 (International conference on application & Design in Mechanical Engg) IISc Bangalore.
2. “Study of Automobile body shape by using flow visualization technique” for TEAMTECH -07, IISc, Bangalore. India.
3. “Direct Shell Production Casting” at MechMantra 05 in RVRJC Engineering College, Guntur, AP.
4. “Moisture absorption effects on the Mechanical Properties of epoxy nano composites” for International conference on advanced materials held at B.T.L.I.T. Bangalore - 2011.
5. Journal | Published On : 08-08-2018
6. Suresh, E, S.V., Chatterjee, R., Ramya, M., ., Padmanabhan, K.
  - A Comparative Study of the Three Point and Four Point Bending Behavior of Rigid Foam Core Glass/Epoxy Face Sheet Sandwich Composites Iyer, S.V., Chatterjee, R., Ramya, M., Suresh, E., Padmanabhan, K. 2018 Materials Today: Proceedings
7. Journal | Published On : 01-06-2018
  - Suresh, E., Padmanabhan, K
  - Prediction of Flexural Behavior of Rigid Foam Sandwich Composites through Mode 1, Mode 2 and Mixed Mode Failures Suresh, E., Padmanabhan, K. 2018 Materials Today: Proceedings
8. Journal | Published On : 20-07-2017
  - Suresh, E, Vishnu Vardhan Reddy, D., Ramya, M., ., Padmanabhan, K

- Influence of hygrothermal conditioning on strength and stiffness of rigid foam core glass/epoxy skin sandwich composites
9. Journal | Published On : 20-07-2017  
Suresh, E, Chandra, M., Ramya, M., Suresh, E., Padmanabhan, K  
• Finite Element Analysis of Glass/Epoxy Skin and Rigid Foam Core Sandwich Composites - Simulation of Shear Modes and Flexural Modes of Failure
  10. Journal | Published On : 20-07-2017  
Suresh, E., Vishnu Vardhan Reddy, G., Ramya, M., Padmanabhan, K  
• Shear Flow Analysis in Foam Core-Glass/ Epoxy Face sheet Sandwich Composites
  11. Journal | Published On : 18-06-2014  
Suresh, E., Hemnath, T., Padmanabhan, K  
• Studies on flexural optimization of glass fabric-epoxy skin/rigid foam core sandwich composites

### **Workshops attended:**

- ❖ FDP on “Research methodologies” Organized by *National Institute of Technology*, Calicut.
- ❖ Successfully completed Six sigma green belt certification in Aug 2012
- ❖ FDP on “Aerospace Vehicles” Organized by *K.S.G.I. Bangalore*. In Feb 2011.
- ❖ One Day Workshop on “Nano Materials and Technology” Organized at University Visvesvaraya College of Engineering, Bengaluru, on 15<sup>th</sup> March 2007
- ❖ One - Week Online Faculty Development Programme on Recent Advances in Composite Materials For Engineering Applications organized by Department of Mechanical & Civil Engineering, BMSCE, F.E.T.M.J.P.Rohilkhand University, Bareilly during 08 to 12 March 2021.
- ❖ one-week Online Faculty Development Programme (FDP) on “EMERGING TRENDS IN ADVANCED MATERIALS & MANUFACTURING PROCESSES” (ETAMMP-2021) from 12/07/2021 to 16/07/2021 organized by Department of Mechanical Engineering, Kakatiya Institute of Technology & Science, Warangal, Telangana.
- ❖ One Week AICTE Sponsored Short Term Training Program titled “Advanced Manufacturing Techniques for Medical and Precision Engineering”, organized by the Department of Mechanical Engineering in association with IIC and IQAC, MVJ College of Engineering Bengaluru, from 04 – 09 January 2021.
- ❖ Has participated in AICTE Sponsored Short Term Training Program (Virtual Mode) Phase – IV on “COMPOSITE MATERIALS : MICRO TO NANO – FABRICATION CHARACTERIZATION AND MODELLING INCLUDING ADDITIVE MANUFACTURING” organized by Department of Mechanical Engineering, Rajalakshmi Engineering College (Autonomous), Chennai, from 23rd November 2020 to 30th November 2020.
- ❖ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Data Sciences" from 2020-10-20 to 2020-10-24 at Ramakrishna Mission Vivekananda Educational and Research Institute.
- ❖ HAS PARTICIPATED SUCCESSFULLY IN A ONE WEEK SHORT TERM TRAINING PROGRAMME (STTP) ON “RECENT TRENDS & CHALLENGES FOR NEW PRODUCT DEVELOPMENT” CONDUCTED BY THE DEPARTMENT OF AUTOMOBILE ENGINEERING DURING OCTOBER 12-10-2020 TO 17-10-2020 AT THE OXFORD COLLEGE OF ENGINEERING, BANGALORE, KARNATAKA, INDIA
- ❖ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "3D Printing & Design" from 2020-10-5 to 2020-10-9 at UNIVERSITY VISVESVARAYA COLLEGE OF ENGINEERING.
- ❖ Successfully completed the AICTE sponsored one week STTP on Opportunities and Challenges in Smart City Implementation in IoT Era organized by Department of Electronics and Telecommunication Engineering, JSPM’s Rajarshi Shahu College of Engineering, Pune from 21st to 26th September 2020.
- ❖ One Week National Level Workshop on “DIGITAL TRANSFORMATION & PEDAGOGIES” Sponsored by AICTE, New Delhi & TEQIP III CERTIFICATE One Week National Level Workshop on "Digital Transformation & Pedagogies” organized during August 10-14, 2020, by Government College of Engineering, Karad & Walchand College of Engineering, Sangli, Sponsored by AICTE, New Delhi & TEQIP III
- ❖ Two Week Online International Faculty Development Program on “Experimental and Numerical Methods for Mechanical Engineers” organized by the Department of Mechanical Engineering, G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand during August 17<sup>th</sup> - 28<sup>th</sup>, 2020.
- ❖ participated in Two Week Online Faculty Development Programme on ” RECENT ADVANCES IN MATERIALS AND CHALLENGES IN MANUFACTURING TECHNIQUES” Organised by Department of
- ❖ Mechanical Engineering, University College of Engineering Kakinada (A), JNTUK, Kakinada held during 22nd March-3rd April 2021. Sponsored by AICTE.
- ❖ attended One week online faculty development programme on “Recent Advances in Composite Materials For Engineering Applications” organized by Department of Mechanical & Civil Engineering, BMSCE, F.E.T.M.J.P.Rohilkhand University, Bareilly, during 08 to 12 March 2021.
- ❖ BMSCE -FDP mba 2 week FDP certificate on “research, Publication and funding” During June 8-19, 2020, organized by Department of Management studies and research centre.