

Dr. K K Ramachandran



Designation : Professor, Department of Mechanical Engineering,
& Affiliation Government Engineering College Thrissur, Thrissur – 680009, Kerala, India

Degrees Earned

- PhD in Mechanical Engineering: Materials Engineering - Anna University, Chennai
 - M Tech in Mechanical Engineering (Energy): - NIT Calicut, Kerala
 - B Tech in Mechanical Engineering – GEC Thrissur, Calicut University, Kerala
-

Areas of research interest

Materials Engineering: Welding and joining – FSW, fusion welding (TIG, MIG, etc); surfacing and cladding, FSP, FS, surface coatings, etc.; metal matrix composites – production and characterization; corrosion characterization; etc.

Energy systems : Renewable energy; direct and indirect energy conversion systems – fuel cells, thermoelectric generators, solar PV, etc.; simulation of energy systems; alternate fuels; etc.

Professional Experience

- Government Engineering College Thrissur: from 20th October 2000 to till date as Assistant Professor/Associate Professor/ Professor
 - District Consumer Disputes Redressal Forums, Kerala: from 1999 onwards acting as Govt. Nominated Expert Commissioner
 - Industry/Govt. Departments: 6 Years
-

Professional Committee Activities

- Fellow Institution of Engineers (India)
 - Life Member, Indian Welding Society
 - Member, Indian Institute of Welding
 - Member, Indian Society for Technical Education
 - Member, Indian Society of Metals
 - Member, International Association of Engineers
-

Research Activities

- Investigation on FSW of dissimilar Al alloys and steels
 - Investigation on FSW of austenitic stainless steels and tool development
 - Investigation on fusion welding of dissimilar high strength steels and stainless steels
 - Experimental and numerical investigation on PEM/Solid Oxide fuel cells
 - Investigation on development of hybrid magnesium matrix composites and their processing
 - Investigation on titanium based permanent bio-implants and Mg based temporary implants
 - Investigation on alternate fuels for IC engine
-

Ph. D. Guidance

- As Supervisor – 5 Scholars

Other achievements

- Best Speaker Award in international conference abroad – 1 (7th Global conference on Materials Science and Engineering: CMSE 2018, 1 - 4 November 2018 at Xi'an Technological University, Xi'an, China)
- Best paper award in international conferences in India – 4
- Technical / Advisory Committee Member of International Conferences – 5 (1 abroad – World Symposium on Materials Science and Engineering, WSMSE 2017, 15 -17 March 2017, Hong Kong)
- Participated as Invited Speaker in International Conferences abroad – 4
- Participated as Keynote Speaker/Invited Speaker in Conferences / FDPs in India – More than 50 (including, IITs, NITs, PSG Tech and Govt. Engineering Colleges in Kerala and Tamil Nadu)
- Chaired Sessions in International Conferences in India and abroad – 11 (including CMSE2018 & CMSE2019 in China and PFAM XXIII at IIT Roorkey)
- Conferences / Workshops / FDPs organised – 8
- Serving as Chairman, Doctoral Committee, Faculty of Mechanical Engineering – APJ Abdul Kalam Technological University, Kerala
- Served/serving as Department level and Institute level NBA accreditation coordinator of Govt. Engineering College Thrissur.
- Serving reviewer of International peer reviewed journals published by Elsevier, Springer, Taylor & Francis, ASME, ASM, etc.: More than 35 journals
- Research Projects: AICTE – RPS, CERD-RSM & TEQIP (11 Lakh)
- Publications in National / International Conferences - 51
- Publications in peer reviewed International Journals – 26 (Citations: 380, h-index: 10 and i10-index: 10)

Prof. Dr. Aboobacker Kadengal
Adjunct Professor & Dean (P.G), LBSCE, Kasaragod



B.Tech. (REC Calicut) in Mechanical Engineering. (1986)

M.Tech. (IIT Madras) in Mechanical Engineering with specialization in Thermal Turbo machines (1987)

PhD (IIT Bombay) with thesis entitled “Scaling and Modeling of Two-phase Natural Circulation Boiling Instabilities”. The research is related to Advanced Heavy Water Reactor (AHWR) program of India.

UNIDO Fellowship for Training in flow measurement and Control at National Engineering Laboratory, U.K.,

Worked as Research Engineer at Fluid Control Research Institute (FCRI) from Dec. 1987 to Oct. 1994

From Oct. 1994 onwards working as a faculty in Mechanical Engineering Dept., LBS College of Engineering, Kasaragod.

The field of research and interest is Thermal and Fluids engineering. Has expertise in flow measurement and control, experimental and computational investigations single phase and multi-phase thermal and fluid systems. Having done few NPTEL courses of Machine learning, the applications of Machine Learning in thermal and fluids problems are being explored. Few publications in International and National Journals and conferences.

Brief CV



Dr. Ranjith M

Assistant Professor, Department of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal

Educational Background

PhD in the area of Computational Fluid Dynamics from Dong-A University, Busan, South Korea.

M.Tech. in Energy Management from National Institute of Technology Calicut.

B. Tech. in Mechanical Engineering from Govt. College of Engineering, Kannur, Kerala.

Dr. Ranjith M has a total teaching and research experience of 19 Years. His research interest includes computational fluid dynamics, fluid-structure interaction, biofluidynamics, microfluidics, bioheat transfer, fluid flow and heat transfer and solar energy. He has published 31 International Journal Publications in various high impact factor journals. He has 77 International and National conference publications and 11 book chapters to his credit. Dr. Ranjith M is leading a laboratory called “Biophysics Laboratory” at NITK Surathkal which is established through a project funded by Department of Science and Technology, Govt. of India. Dr. Ranjith M as a principal investigator, recently completed one project and as a Co-principal investigator one project is ongoing both funded by Department of Science and Technology, Govt. of India. Under his guidance, 1 PhD completed, 1 PhD thesis submitted and 5 PhD students are currently pursuing.



Dr. Jithesh P K

Dr Jithesh PK is an Assistant Professor of the Department of Mechanical Engineering at Government Engineering College Kozhikode. He has 9 years of teaching experience at different institutes. He received his PhD in the area of water and thermal management in PEM fuel cells from IIT Madras in 2014. He has 5 journal papers and 12 conference papers to his credit. He has guided 10 M.Tech projects and 6 B.Tech projects and also guiding one PhD scholar. His current research focus is on designing efficient solar thermal energy systems and developing self-humidified PEM fuel cells.



Dr. Rajeev P

Dr. Rajeev P. obtained his B.Tech in Mechanical Engineering from Government Engineering College Thrissur in 1987, M.Tech in Industrial engineering from NIT Calicut in 1991, and Ph.D. in Metallurgical and Materials Engineering from NITK Surathkal in 2015. He started his engineering career at different private companies in India and U.A.E at different positions including Assistant Engineer and quantity surveyor in 1987. He joined as Assistant Manager (Technical-QA) with KAMCO, a Government of Kerala undertaking in 1995 and moved to L B S College of Engineering Kasaragod in 1999. Dr. Rajeev P has over 31 years of industry and teaching. He functioned as faculty, HOD, Principal, TEQIP coordinator, Manager (Centre for continuing education), R&D coordinator, Chief Superintendent (exams) and NSS coordinator at engineering colleges. Currently he is officiating as Associate Professor, College of Engineering Thalassery and serving as Placement Officer and Director-in-charge of MBA programmes approved by AICTE and affiliated to Cochin University of Science and Technology. Dr. Rajeev P has over 22 publications to his credit. He has presented several research papers in international conferences. He is actively involved in professional development activities such as international seminars, FDPs, workshops and other training programmes. He has undertaken many funded research projects. He is an external doctoral committee (DC) member and examiner for research scholars under KTU. He is a life member of Indian Society of Technical Education (ISTE). His research interests are in Corrosion engineering, Three-dimensional printing, Cryogenic cooling for machining, Six sigma and total quality management, Project Management, Activity Based Costing, Organisational behaviour etc.



Dr. Joby George

*Chandiyil (House) Muttuchira (P. O.)
Kottayam Kerala-686613 Mob: 09496365557
E mail: jobycg2005@gmail.com*

**Assistant Professor, MED, Amal Jyothi College of Engineering,
Kanjirappally, Kerala **Work Experience: Teaching and Research – 16
years****

Organization: Viswajyothi College of Engineering and Technology, Vazhakulam, Kerala.

Designation: Assistant Professor, Department of Mechanical Engineering.

Period: From 01/09/2005 to 31/05/2019

Field of expertise/ Areas of interest: Industrial Engineering, Supply Chain Management, Inventory Management, Research Methodology and Project Management.

KTU related: KTU PhD Guideship, KTU Academic Auditor (2019-20)

Academic Projects:

- **Ph.D. Thesis:** Evaluation of Inventory Control Policies and Bullwhip Effect Mitigation Strategies in Supply Chains.
- **M.Tech.:** Pinch Analysis Approach for Aggregate Production and Distribution Planning in Supply

Chain.

- **B.Tech.:** Alteration of a Manual Geared Car (Maruti800) into a Joystick Controlled Car.

Patent:

Patent No: 362515, Application No.: 261/CHE/2015, Date of Filing: 16/01/2015, Date of Granting: 22/03/2021, Title: "A Hand Held Automated Rubber Tapping Device for Removal of Bark from Rubber Trees".

Publications:

A. International Journals

1. Joby George and V. Madhusudanan Pillai, "Evaluation of inventory replenishment policies on supply chain performance with grey relational analysis", *Int. J. Integrated Supply Management*, Inderscience, Vols. 14, No.2, pp. 197-227, 2021.
2. T. Chinna Pamulety, Joby George and V.M. Pillai, "An Inventory Position-Based Policy for Better Supply Chain Performance", *Journal of Industrial and Production Engineering*, Vol.34, No.3, pp.180-198, 2017.
3. Joby George and V. Madhusudanan Pillai, "Transfer Function Models of Inventory Policies and Bullwhip Quantification in Supply Chain", *Procedia Technology*, Vol. 25, pp. 1064–1071, 2016.
4. Joby George and V. Madhusudanan Pillai, "Supply Chain Performance Evaluation Using Spreadsheet Simulation", *Applied Mechanics and Materials*, Trans Tech Publications, Vols. 592-594, pp. 2699-2703, 2014.

B. Book Chapter

1. Joby George and V. Madhusudanan Pillai, "Bullwhip Effect Performance of Supply Chains Under Statistical Process Control-Based Policy". *Leadership Strategies for Global Supply Chain Management in Emerging Markets*, Edited by Ashish Dwivedi and Mohammed Saad Alshamrani, ISBN: 978-1-7998-2867-9, Chapter 9, pp. 195-223, IGI Global Publishers, USA, 2020.
2. Joby George and V. Madhusudanan Pillai, "Bullwhip Effect Quantification in a Supply Chain under Periodic Review Inventory Policies", *Engineering & Technology, Environment and Sustainability*, Edited By P.C Thomas, Vishal John Mathai, Geevarghese Titus, ISBN: 9780429353628, Chapter 54, pp.433-440, CRC Press Publishers, Boca Raton, 2020.
3. Joby George and V. Madhusudanan Pillai, "Development of Spreadsheet-based Simulation Package for Supply Chain Inventory Policy Analysis", *Supply Chain Management: Practices, Applications and Challenges*. Editor: Md. Mamun Habib, ISBN: 978-1-63484-096-5, Chapter 11, 187-207, Nova Science Publishers, Inc., USA, 2016.

C. International Conferences

1. Joby George and V. Madhusudanan Pillai, "Impact of Inventory Policies on Supply Chain Performance and then Ranking of Policies using Grey Relational Analysis", *Research Conference on Operations & Supply Chain Management (RCOSCM-19-20)*, Symbiosis Institute of Operations Management (SIOM), Nashik, India, November 10, 2019.
2. Joby George and V. Madhusudanan Pillai, "A Study of Factors Affecting Supply Chain Performance", *International Conference on Aerospace & Mechanical Engineering (ICAME-2018)*, TKM College of Engineering, Kollam, December 17-19, 2018.
3. Joby George and V. Madhusudanan Pillai, "Managerial strategies to mitigate bullwhip effect in supply chain: a case study", *4th International Conference on Production & Industrial Engineering (CPIE-2016)*, NIT Jalandhar, India, December, 19-21, 2016.
4. Joby George and V. Madhusudanan Pillai, "Analysis of Bullwhip Effect in Serial and Divergent Supply Chain under SPC-based Policy", *Management Doctoral Colloquium*, IIT Kharagpur, February 10-11, 2016.
5. Joby George, Nimmy J.S. and V.M. Pillai, "Collaborative Inventory Distribution Management in a Supply Chain: A Simulation Perspective", *Proceedings of International Conference on Industrial Engineering and Engineering Management (IEEM2014)*, Selangor, Malaysia, December 09-12, 2014.
6. Joby George and V.M. Pillai, "Spread Sheet Simulation of Inventory Position-Based Periodic Review Policies in a Serial Supply Chain", *Proceedings of International Conference on Advances in Industrial Engineering Applications (ICAIEA2014)*, Anna University, Chennai, 6-8 January, 2014.

7. Joby George and Sunil Kumar, K, "Application of Energy Integration Methodology in Production and Distribution Stages of Supply Chain", Proceedings of International Conference of IIIIE, Visakhapatnam, Andhra Pradesh.
8. Joby George and Sunil Kumar, K, "Application of Pinch Technology and its Validation for Aggregate Production Planning in Supply Chain considering Finite capacity", Proceedings of International Conference on Advanced Manufacturing and Automation, Kalasalingam University, Tamilnadu, 26-28 March, 2009.

D. National Conferences

1. Joby George "Quality Assurance in Engineering Education: Role of National Board of Accreditation (NBA) with a Case Study", National Seminar, 47th Annual National ISTE Convention, January 27-29, 2018.
2. Joby George "The Major Concerns about Engineering Education in India with a Case Study", National Seminar, 28th Annual State ISTE Convention, December 9, 2017.
3. Joby George and Joseph Michel, "India Opens Gateways to Foreign Universities: Fortunes for Student's Society", Proceedings of 40th ISTE National Annual Convention, MEPCO Schlenk Engineering College, Sivakasi, Tamil Nadu, 02-04 December, 2010.
4. Joby George and Sunil Kumar, K, "An OR based Validation for the Application of Pinch Analysis in Aggregate Production Planning", Proceedings of National Conference on Technological Trends (NCTT), CET, Thiruvananthapuram, Kerala, 21-22 November, 2008.

Resource Person/Expert Talks Delivered:

1. Resource person for the FDP on Supply Chain Modelling and Logistics Management, Viswajyothi College of Engineering and Technology, Vazhakulam, 06-07-21.
2. Resource person for the FDP on Tools, Models and Techniques for Scientific Research, Viswajyothi College of Engineering and Technology, Vazhakulam, 26-07-19.
3. Expert talk on Supply Chain Management, Adi Shankara Institute of Engineering and Technology, Kalady, 30-10-18.
4. Resource person for the workshop on Supply Chain Operation Simulation using Supply Chain Role Play Game, Adi Shankara Institute of Engineering and Technology, Kalady, 27-09-17 and 28-09-17.

Curriculum Vitae

of



Dr. Vineesh K P, Assistant Professor, ME, NIT Calicut

OFFICE ADDRESS

Department of Mechanical
Engineering

NIT Campus PO

Kozhikode-673601

Tel: (O): 0495 2286411

(M): 7797255917

Email: vineesh@nitc.ac.in

vineesh2k1me@gmail.com

HOME ADDRESS

Apartment No. FD17

NIT Campus PO

Kozhikode-673601

Education

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

PhD in Mechanical Engineering, July 2016

PhD Title: Gauge widening failure of tread braked passenger coach wheel sets: Finite element modeling and field observations

Thesis supervisor: Prof. Vikranth Racherla

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

M. Tech. in Mechanical Systems Design, May 2012

M.Tech Thesis Title: Design of creep set up for combined tension-torsion loading

Thesis supervisor: Prof. Vikranth Racherla

GOVERNMENT COLLEGE OF ENGINEERING KANNUR /KANNUR UNIVERSITY

B. Tech. in Mechanical Engineering, May 2005

Research Experience

Assistant Professor, NIT Calicut (May 2018 Till date)

- Conducted wheel gauge failure analyses on wagon wheel sets using finite element analyses and field data
- Development of finite element model to estimate the temperature and residual stress during welding of dissimilar metals (P91 steel and SS316LN steel)
- Design robot mechanism for cleaning the debris on platform side of the railway track (Work with Dr. Sudheer A P, MED, NIT Calicut)
- Development of prototype for online wheel gauge monitoring system for passenger coaches

Assistant Professor, Government College of Engineering Kannur (June 2016-May 2018)

- Design and Manufacturing of set up for manufacturing of bricks from plastic waste

Research Scholar, IIT KHARAGPUR (July 2012-May 2016)

- Designed and developed a combined tension-torsion creep testing machine and characterized railway wheel steel on this machine
- Determination of railway wheel temperatures as a function of running history from instrumented field trials
- Developed finite element model for predicting wheel temperatures as a function of running history
- Conducted wheel gauge failure analyses on locomotive and coach wheel sets using finite element analyses and field data

Teaching and Industry Experience (Before PhD)

- Lecturer, Viswajyothi College of Engineering and Technology, Vazhakuam, Kerala (August 2005-May 2006)
- Engineer, PT EPCOS Indonesia (June 2006-March 2009)
- Guest Lecturer, Government College of Engineering Kannur (August 2009-April 2010)

Courses Taught at NIT Calicut (July 2018- Till date)

- Introduction to Finite Element Methods (ME3021D), UG elective
- Engineering Fracture Mechanics (ME3026D), UG Elective
- Fracture Mechanics and Fatigue (ME6631D), PG Elective
- Machine Design- II (ME4001D), UG Core
- Machine Design- I (ME3011D), UG Core
- Design of Machine Elements (ME3014), UG Core
- Solid Mechanics (ME2003D), UG Core
- Engineering Mechanics (ZZ1001D), UG Core
- Engineering Graphics (ZZ1002D), UG Core

PhD Guidance (Ongoing)

- 1) *Student Name:* Anoop A Pillai
Research area: Residual stresses in Welding
Supervisor(s): Dr. Jayadeep U B, Dr. Vineesh K P
- 2) *Student Name:* Amit Malgol
Research Area: Rotor dynamics

Supervisor(s): Dr. Ashesh Saha, Dr. Vineesh K P

- 3) *Student Name:* Vineesh Vishnu
Research Area: Additive Manufacturing
Supervisor(s): Dr. Vineesh K P

Patents

- 1) *Inventors:* Vineesh KP, Dr. Sudheer A P, and Mr. Deepak Kasindi
Patent Title: Cost-effective mechanical testing equipment for characterizing creep behavior of materials under combined tension-torsion loadings
Indian Patent Application Number: 1263/KOL/2012 dated 02-11-2012
- 2) *Inventors:* V Racherla, Vineesh KP
Patent Title: Cost-effective mechanical testing equipment for characterizing creep behavior of materials under combined tension-torsion loadings
Indian Patent Application Number: 1263/KOL/2012 dated 02-11-2012

Publications in Refereed International Journals

- 1) S Sundareswaran, M R K Vakkalagadda, V Racherla, Senthil Kumar A, K P Vineesh, (2022), Gauge Widening Failures of Wagon Wheels in Indian Railways: Finite Element Modeling and Observed Statistics, Proc. IMech Part F: J Rail and Rapid Transit, Accepted
- 2) Cheryl Ranjole, Virendra Pratap Singh, Basil Kuriachen, K P Vineesh, (2022), Numerical prediction and experimental investigation of temperature, residual stress and mechanical properties of dissimilar friction stir welded AA5083 and AZ31 Alloys, Arabian Journal for Science and Engineering, <https://doi.org/10.1007/s13369-022-06808-3>
- 3) Amit Malgol, K P Vineesh, Ashesh Saha, (2021), Investigation of vibration characteristics of a Jeffcott rotor system under the influence of non-linear restoring force, hydrodynamic effect, and gyroscopic effect, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 44 (2022), 105, <https://doi.org/10.1007/s40430-021-03277-x>
- 4) K P Vineesh, MRK Vakkalagadda, M Dev, B K Rao, V Racherla, (2020), Effect of periodic wheel tread reprofiling on wheel gauge evolution in tread braked coach wheel sets: Finite element modeling and field observations, Proc. IMech Part F: J Rail and Rapid Transit, 234(6), 678-686 <https://doi.org/10.1177%2F0954409719854810>
- 5) K P Vineesh, MRK Vakkalagadda, M Dev, B K Rao, V Racherla, (2020), Gauge widening of passenger coach wheel sets in Indian Railways: Observed statistics and failure analysis, Engineering Failure Analysis, 71, 105-119. <https://doi.org/10.1016/j.engfailanal.2016.06.014>
- 6) K P Vineesh, M R K Vakkalagadda, A K Tripathi, A Mishra, V Racherla, (2016), Non-uniformity in braking in coaching and freight stock in Indian Railways and associated causes, Engineering Failure Analysis, 59, 493-508. <https://doi.org/10.1016/j.engfailanal.2015.11.023>
- 7) M R K Vakkalagadda, K P Vineesh, A Mishra, V Racherla, (2016), Locomotive wheel failure from gauge widening/condemning: Effect of wheel profile, brake block type, and braking conditions, Engineering Failure Analysis, 59, 1-16. <https://doi.org/10.1016/j.engfailanal.2015.11.013>

- 8) M R K Vakkalagadda, K P Vineesh, A Mishra, V Racherla, (2015), Locomotive wheel failure from gauge widening/condemning: Finite element modeling and identification of underlying mechanism, *Engineering Failure Analysis*, 57, 143-155. <https://doi.org/10.1016/j.engfailanal.2015.07.027>
- 9) M R K Vakkalagadda, K P Vineesh, V Racherla, (2015), Estimation of railway wheel running temperatures using a hybrid approach, *Wear*, 328-329, 537-551. <https://doi.org/10.1016/j.wear.2015.03.026>

Book Chapter

- 1) Nithya Srimurugan, Rishi Dwivedi, Vineesh Vishnu, Basil Kuriachen, K. P. Vineesh, (2021), Finite Element Modeling of Temperature Evolution During Selective Laser Melting, *Lecture Notes in Mechanical Engineering*, Springer, pp 315-321, 2020, DOI: https://doi.org/10.1007/978-981-16-4222-7_37

Conference Proceedings

- 1) K S Abenesh, M R K Vakkalagadda, V Racherla, K P Vineesh, "Finite element modeling of railway wheel gauge change during braking: Effect of lateral shift of brake block", *Materials Today: Proceedings*, Article in Press, <https://doi.org/10.1016/j.matpr.2021.12.126>
- 2) Vineesh Vishnu, K P Vineesh, T Ramprabhu, "Influence of load and counter body on the sliding wear behavior of AlSi10Mg alloys fabricated by DMLS", *An International Virtual Tribology Conference (TRIBOINDIA 2021)*, Saintgits College of Engineering and technology, Kottayam, Dec 2021.
- 3) Anoop Pillai, K P Vineesh, Jayadeep U B, "Comparison of 3D and 2D analysis of welding: Temperature profiles", 8th International and 29th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2021) organised by Department of Mechanical Engineering, PSG College of Technology and PSG Institute of Technology and Applied Research Coimbatore, December 9-11, 2021.
- 4) Sarin Xavier, Vineesh K. P., Manu R., Deepak Lawrence K., "STEP AP209 ed2 file based Automated FEM Analysis and Simulation of CAD model", 8th International and 29th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2021) organised by Department of Mechanical Engineering, PSG College of Technology and PSG Institute of Technology and Applied Research Coimbatore, December 9-11, 2021.
- 5) M. Manoj Kumar, A. Inbaoli, C.S. Sujith Kumar, K.P. Vineesh, (2021), Experimental investigation on effect of surfactant on cooling dynamics of stainless steel, *Materials Today: Proceedings* 47(2021) 3340-3345 (Conference paper presented on International conference on advances in mechanical engineering and nano technology, March 18-19, 2021, jointly organised by Manipal University Jaipur and Research and Consultancy Section, National Institute of Technology, Uttarakhand) <https://doi.org/10.1016/j.matpr.2021.07.153>
- 6) V. Sai Naga Kishore, K.P. Vineesh, (2021), Temperature evolution in disc brakes during braking of train using finite element analysis, *Materials Today: Proceedings* 41(2021) 1078-1081 (Conference paper presented on International conference on advances in minerals, metals, materials, manufacturing and modelling September 25-27, 2019 NIT Warangal) <https://doi.org/10.1016/j.matpr.2020.07.542>
- 7) Sundareswaran S, K P Vineesh, (2020), Effect of creep, quenching and annealing time on residual stress during manufacturing of railway wheels, *National Conference on Futuristic Trends in Materials, Manufacturing and Mechanical Engineering FTMMME 28th, 29th February 2020 at NIT Raipur*.

- 8) Adarsh Kumar Shah, K P Vineesh, M L Joy, Study of the lubricating properties of hybrid liquid paraffin with TiO₂ and CuO as nano-additives for engine oil application, IOP Conf. Series: Materials Science and Engineering 624 (2019)(Conference paper published in *First International Conference on Mechanical Power Transmission (ICMPT 2019)*, IIT Madras, July 11-13) <https://doi.org/10.1088/1757-899X/624/1/012006>
- 9) Umar Farook N, Parthasarathy R, Murshid P K, Anikesh Kumar Rathod, Naveen Raghava Krishnan S B, Anoop Kumar Verma, K P Vineesh, Sreenath A M, Novel Methodology to Optimize Design Parameters of an Asymmetric Gear, IOP Conf. Series: Materials Science and Engineering 624 (2019) (Conference paper published in *First International Conference on Mechanical Power Transmission (ICMPT 2019)*, IIT Madras, July 11-13) <https://doi.org/10.1088/1757-899X/624/1/012016>
- 10) Nithin E. P., Vineesh K. P., Modification of Manufacturing Residual Stresses in Railway Wheel Due to Mechanical Loads (2017), *National Conference on Technological Advancement in Engineering Aspects (NaCTAE`17)*, 2017SNGCET Payyannur, March 25, 2017
- 11) Sajin P V ., Vineesh K P., Effect of material removal on residual stress distribution (2017), *National Conference on Technological Advancement in Engineering Aspects (NaCTAE`17)*, SNGCET Payyannur March 25, 2017
- 12) Vineesh, K.P., Vakkalagadda, M.R.K., Racherla, V.,(2016), Gauge widening/ condemning of parabolic profile locomotive wheels while braking with composite brake blocks, Sixth International Congress on Computational Mechanics and Simulation, (ICCMS), IIT Bombay, India, June 27-July 1, 1108-1111
- 13) Vineesh, K.P., Vakkalagadda, M.R.K., Srivastava, D.K., Mishra, A., Racherla, V., (2015), Analyses of temperatures in locomotive wheels fitted with cast iron and composite brake blocks, *Indian Conference on Applied Mechanics (INCAM)*, IIT Delhi, India, 64-69.
- 14) Vineesh, K.P., Vakkalagadda, M.R.K., Racherla, V., (2015), Prediction and validation of temperatures of locomotive wheel subjected to tread braking, *23rd National Heat and Mass Transfer Conference and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC2015)*, Thiruvananthapuram, India, December 17-20.

Awards

- 1) Gandhian Young Technological Innovation Appreciation (GYTI) Award –2016 at Rashtrapathi Bhavan on March 13, 2016

Administrative roles

Assistant Professor, NIT Calicut (May 2018- Till date)

- ATAL Coordinator (March 2022-Till date)
- Mechanical Engineering Department Secretary (July 2019- Till date)
- Faculty-in- Charge, CAD/CAM Lab (July 2018- Till date, with Dr. Jose Mathew and Dr. Jayadeep U B)
- Member of B. Tech project evaluation committee (July 2018-Till date)
- Member of space allotment committee (July 2019-July 2020)
- Faculty advisor of 2018 admission B. Tech ME students (44 students)

Assistant Professor, Government College of Engineering Kannur (June 2016-May 2018)

- Coordinator in Charge AICTE affiliation of college
- KTU internal academic auditor
- Faculty advisor of 2016 admission B. Tech ME students (62 students)

- Lab-in-Charge, Advanced Manufacturing Lab (July 2016-June 2017)