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# RAJESH KUMAR N M.E,

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**Rajesh Kumar N** M.E,

Asst.Professor

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**Ph:** 9620651533

## **Educational Qualification:**

1. Completed M.E., in Engineering Design in Adhiyamaan College Of Engineering of , Hosur with First Class Distinction during the year 2012.
2. Completed B.E in Mechanical Engineering in Adhiyamaan College of Engineering with First Class during the year 2010.

## **Experience:**

1. Working as Assistant professor – Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru from 14.07.2016 to till date.
2. Worked as Assistant professor – Department of Mechanical Engineering, Rajiv Gandhi Institute of Technology, Bangalore from August 2012 to May 2016.

## **Journal Publications:**

- Implementation of Direct Drive Technologies into Electric Vehicles, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 1, Issue 7, November 2016, ISSN (Online) 2456-1290.
- Automatic Mobile Railway Bridge, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 3, Issue 5, May 2018, ISSN (Online) 2456-1290.
- Ultra power Saving Vehicle, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 2, Issue 5, May 2017, ISSN (Online) 2456-1290.
- Stress Analysis of a Splice Joint of the Wing and Fatigue Life Estimation under Variable Loading, MASK International Journal of Science and Technology, Vol. 1, No. 4, Dec 2016.
- Computational flow dynamics analysis of carburetor for different throttle angle, AIP conference proceedings 2393, 020109, 2022. Published online on 19<sup>th</sup> May 2022.
- Ductile behavior and dynamic mechanical analysis of hybrid bio composites , Materials Today proceedings - 46 (2021) – 772 -776, Elsevier Publisher.

### **a) International Conference:**

1. Presented a Research Paper titled “IMPLEMENTATION OF DIRECT DRIVES TECHNOLOGIES INTO ELECTRIC VEHICLES” during the Chip,Circuitry,Current,Coding,Combustion and Composites (I7C-2016) held in Sri Sairam College of Engineering, Bengaluru on 10<sup>th</sup> and 11<sup>th</sup> November 2016.
2. Presented a Research Paper titled “SOLAR POWERED AUTOMATED RAILWAY GATE”during the THIRD International conference on Applied Science,Engineering and technology (ICASET-17) held in Sri Sairam College of Engineering,Bengaluru on 18<sup>th</sup> and 19<sup>th</sup> May 2017.
3. Presented a Research Paper titled “ULTRAPOWER SAVING VEHICLE”during the THIRD International conference on Applied Science,Engineering and technology (ICASET-17) held in Sri Sairam College of Engineering,Bengaluru on 18<sup>th</sup> and 19<sup>th</sup> May 2017.
4. Presented a Research Paper titled “ECONOMIC RICE TRANSPLANTER MACHINE”during the seventh International conference on Applied Science,Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering,Bengaluru on 2<sup>nd</sup> and 3<sup>rd</sup> May 2019.
5. Presented a Research Paper titled “MULTIDISCIPLINARY AGRIBOT”during the fifth International conference on Applied Science,Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering,Bengaluru on 17<sup>th</sup> and 18<sup>th</sup> May 2018.
6. Presented a Research Paper titled “AUTOMATIC MOBILE RAILWAY BRIDGE”during the fifth International conference on Applied Science,Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering,Bengaluru on 17<sup>th</sup> and 18<sup>th</sup> May 2018.

7. Presented a Research Paper titled “ Design and fabrication of Smart energy using Piezoelectric material in automobile” in third International Conference on Advances in Engineering and Technology ICAET – 2023, organized by RSP Conference hub, Coimbatore India on 27<sup>th</sup> and 28<sup>th</sup> May 2023.

**b) National Conference:**

1. Presented a paper entitled “Analysis of the fuselage splice joint panel with multi-site damage” in the national conference on “Technological advancements in Mechanical Engineering” held on 9<sup>th</sup> February 2012 at Selvam College of Technology, Namakkal. P 86.
2. Presented a paper entitled “Analysis of the multi-site damage at the fuselage splice joint to verify the mode of failure” in the national conference held on 21<sup>st</sup> February 2012 at JKK Nataraja College of Engineering and Technology, Namakkal. P 21.
3. Presented a paper entitled “ Analysis of the multi-site damage at the fuselage splice joint to verify the mode of failure at the joint between the adjacent cracks” in the national conference on “Emerging Trends in Mechanical Engineering” held on 25<sup>th</sup> February 2012 at Sri Venkateshwara College of Engineering and Technology, Chittoor. P11.
4. Published a National Journal paper on “Analysis of the fuselage splice joint panel with Multi-site damage” published by Rajiv Gandhi Institute of Technology Bangalore, recognized by RNI. P 101.

**Patent Filed:**

1. A Patent Titled “**Electric vehicle Trolley Design**” with dated 17-06-2023., design no 388521-001
2. Applied for a PATENT Titled “A system and method for Air Pressure Stabilizing and pumping Apparatus in vehicles Tires “which was published on 01-01-2021.

**Grants Received**

1. Received Rupees 30,000/- from IEI 2021-22 for organizing all India seminar.

**Projects Guided**

1. More than 18 Engineering Projects Guided since 2012.

**Workshops / Seminars / FDP attended:**

- Worked as a “PROJECT ASSISTANT” in the Sponsored project of “Department of Science and Technology, New Delhi” entitled “**STUDY OF SOUND PROPAGATION IN URBAN STREET CANYONS**”.
- Attended two days Workshop on” NTPL Knowledge Workshop” Conducted by IIT Madras.
- Attended national level workshop on “**Geometrical Dimensioning and Tolerancing (GD & T)**” at VIT University, Vellore.
- Participated in the two day National Workshop on “**TRENDS AND DEVELOPMENT IN MANUFACTURING TECHNOLOGY**” at ACE Hosur.
- Participated in the National Workshop on Research Methodologies (RM-2015) Sponsored by KSTA and KSCST,DST.GOK on 4<sup>th</sup> March 2015.
- Participated in three days Faculty development Program titled “**INNOVATIVE TEACHING PEDAGOGY AND STUDENT MANAGEMENT**” Organized by Sri Sairam College of Engineering,Bengaluru from 14<sup>th</sup> ,15<sup>th</sup> and 18<sup>th</sup> July 2016.
- Participated in four days Faculty development Program titled “**OUTCOME BASED EDUCATION AND ROAD MAP FOR ACCREDITATION**” Organized by Sri Sairam College of Engineering,Bengaluru from 18<sup>th</sup> to 21<sup>st</sup> January 2017.
- Appreciation certificate was given for the contribution to GO-KART DESIGN AND DEVELOPMENT as a faculty co-ordinator organized by Imperial society of innovative engineers (ISIE) at Sri Sairam College of Engineering,Bengaluru from 25<sup>th</sup> to 26<sup>th</sup> February 2017.
- Appreciation certificate for Securing 100% Results for handling ENGINEERING DESIGN subject for seventh semester Mechanical Engineering Students for the odd semester 2016-17.
- NPTEL online Course has been taken for the Subject “**ETHICS IN ENGINEERING PRACTICE**” from August to October 2018- 8 week course with a consolidated score of 78% [ELITE].
- Participated in two days Guest Lecture & Hands-on” Emerging Trends in ICT for Education & Teaching” Organized by Sri Sairam College of Engineering,Bengaluru from 10<sup>th</sup> and 11<sup>th</sup> October 2018.
- Appreciation Certificate has given for organizing sixth International conference on Chip, Circuitry, Current, Coding, Combustion & Composites” – i7C held on Sri Sairam College of Engineering, Bengaluru on 28<sup>th</sup> and 29<sup>th</sup> November 2018.
- Participated in two days Faculty development Program titled “**EMPOWER YOURSELF**” Organized by Sri Sairam College of Engineering,Bengaluru from 19<sup>th</sup> to 20<sup>th</sup> January 2018.
- Appreciation Certificate has given for organizing seventh International conference on Applied Science,Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering,Bengaluru on 2<sup>nd</sup> and 3<sup>rd</sup> May 2019.
- Organized a workshop for the sixth semester mechanical students named Hands- on -workshop on “Machine Tools and software – An ANSYS” Platform were conducted for 5 days from 01.02.2019 to 05.02.2019 at Sri Sairam College of Engineering,Bengaluru.
- Organized the Inauguration program for MTS STUDENTS CHAPTER as MTS Faculty Coordinator on 23<sup>rd</sup> February 2019 at Sri Sairam College of Engineering, Bengaluru.

- Participated in three days Faculty development Program titled “FACTO2K17” Organized by Sri Sairam College of Engineering,Bengaluru from 2<sup>nd</sup> to 4<sup>th</sup> August 2017.
- Participated one day Workshop on “PERSUASIVE RESEARCH PROMOTION STRATEGIES “Organized by Kings Engineering College in association with CSI,SAE,ISME,IETE & ICT Academy held on 25<sup>th</sup> November 2017.
- Participated in 5 Days Faculty development Program on”AUTODESK INVENTOR” Conducted by ICT Academy from 18 December 2017 to 22 December 2017 held at Sri Sairam College of Engineering,Bengaluru.
- For mentored the project entitled “MULTIDISCIPLINARY AGRIBOT” a certificate was given by Innovation and Entrepreneurship Development Centre for the year 2017-18.
- For mentored the project entitled “AUTOMATIC MOBILE RAILWAY BRIDGE” a certificate was given by Innovation and Entrepreneurship Development Centre for the year 2017-18.
- Appreciation Certificate has given for organizing fifth International conference on Applied Science,Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering,Bengaluru on 17<sup>th</sup> and 18<sup>th</sup> May 2018.
- Participation Certificate has given for attending pre-conference tutorial sessions conducted by Dr. ASHISH KUMAR and Dr. SHER AFGHAN KHAN in fifth International conference on Applied Science,Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering,Bengaluru on 17<sup>th</sup> and 18<sup>th</sup> May 2018.
- Participated in SUPRA SAE INDIA STUDENT FORMULA EVENT-2018 as a faculty coordinator represented Sri Sairam College of Engineering,Bengaluru from 11<sup>th</sup> to 16<sup>th</sup> June 2018 at Buddh International Circuit,Greater Noida.
- Participated in the webinar on “ NIRF WORK” organised by IQAC CELL, SSCE, on 04-08-2020.
- Participated in Online Seminar on “Research and Innovation Driven, IPR and Patent Filing “ conducted by Dr. T. Thimmaiah Research and Innovation Council in association with IIC on 18-11-2020.
- Participated in International Webinar on “ Machine Learning on Preditive Maintanance “ on 22-05-2021 conducted by Dr. AIT, Bengaluru, Karnataka.
- Participated in Online Quiz competition on “ Sustainable Development Goals “ organized by SSCE, ECE department on 2-07-2020.
- Participated and Got Appreciated in National Level Quiz on “Mechanical System Design “ and organised by Vivekananda Institute of Technology,Bengaluru.
- Participated in national level Webinar on “How to write Research papers and publish in International Journals” on 09 July 2020, organised by Dr. AIT, Bengaluru, Karnataka.
- Participated in the “ Plant a Tree, Nurture your Hope – Tree Plantation Drive” organised by NSS, SSCE, on 27 July 2020.
- Participated in International level workshop on “ Research Ethics – software tools for doing research, publications in peer reviewed journals” organised by department of CSE,AGURCHAND MANMULL JAIN COLLEGE , Chennai on 19 March 2021.
- Participated in faculty development program on “ Virtual labs for Affiliated Engineering Colleges under VTU Belagavi” organised by VTU Belagavi in Association NIT Surathkal on 20th October 2021.

- Participated in the National Digital Library of India (NDLI) & Club Awareness Session held on Sept. 17, 2021 organized by the NDLI Club of Sri Sairam College of Engineering NDLI Club .
- Attended 5 days online FDP Program on the theme “Inculcating Universal values in Technical Education “ organized by AICTE from 30<sup>th</sup> January to 3<sup>rd</sup> February 2023.
- Participated ANSYS Academic Innovation conference on 2<sup>nd</sup> Sep 2022, Bengaluru.
- Completed a course in Infosys Spring Board of Title ‘Basics of Python’ on 15<sup>th</sup> February 2023.
- Presented a paper in the 23<sup>rd</sup> ISTE – Karnataka state faculty convention 2022 on 21<sup>st</sup> July 2022.
- Participated 3 days Face- face FDP on the theme “Inculcating Universal values in Technical Education “ organized by AICTE at SSCE, Anekal, from 1<sup>st</sup> to 3<sup>rd</sup> December 2023.

### **Awards or Recognition:**

1. Appointed as External Deputy Chief superindent (DCS) for the September-october examinations 2023 conducted by VTU.
2. Successfully completed **NITTT Module 5 "Technology Enabled Learning and Life Long self-Learning"** with registration number 20212117234 held on September 2023 by AICTE New Delhi.
3. Appreciation certificate was given for the contribution to GO-KART DESIGN AND DEVELOPMENT as a faculty co-coordinator organized by Imperial society of innovative engineers (ISIE) at Sri Sairam College of Engineering, Bengaluru from 25th to 26th February 2017.
4. Appreciation certificate for Securing 100% Results for handling ENGINEERING DESIGN subject for seventh semester Mechanical Engineering Students for the odd semester 2016-17.
5. NPTEL online Course has been taken for the Subject “ETHICS IN ENGINEERING PRACTICE” from August to October 2018- 8 week course with a consolidated score of 78% [ELITE].
6. Appreciation Certificate has given for organizing sixth International conference on Chip, Circuitry, Current, Coding, Combustion & Composites” – i7C held on Sri Sairam College of Engineering, Bengaluru on 28th and 29th November 2018.
7. Appreciation Certificate has given for organizing seventh International conference on Applied Science, Engineering and technology (ICASET-18) held in Sri Sairam College of Engineering, Bengaluru on 2nd and 3rd May 2019.
8. Organized a workshop for the sixth semester mechanical students named Hands- on -workshop on “Machine Tools and software – An ANSYS” Platform were conducted for 5 days from 01.02.2019 to 05.02.2019 at Sri Sairam College of Engineering, Bengaluru.
9. Organized the Inauguration program for MTS STUDENTS CHAPTER as MTS Faculty Coordinator on 23rd February 2019 at Sri Sairam College of Engineering, Bengaluru.

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14. Participated in SUPRA SAE INDIA STUDENT FORMULA EVENT-2018 as a faculty coordinator represented Sri Sairam College of Engineering, Bengaluru from 11th to 16th June 2018 at Buddh International Circuit, Greater Noida.
15. Participated and Got Appreciated in National Level Quiz on “Mechanical System Design “ and organised by Vivekananda Institute of Technology, Bengaluru.
16. Successfully completed the online NPTEL certification course “ **Laser Based Manufacturing** ” with consolidated score of 69% with Elite conducted by **IIT , Guwahati** , AUG – OCT 2023.

### **Membership and other achievements**

1. Life Member of ISTE (Indian Society for Technical Education) # LM116791
2. Associate Member Of IEI (Institution of Engineers, India) #AM173855-3