

**Office Address:**

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## Dr. Vadivuchezhian Kaliveeran

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                      |                     |                                     |
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| <b>Areas of Expertise</b>         | <ul style="list-style-type: none"> <li>• Solid Mechanics</li> <li>• Tribology</li> <li>• Contact Mechanics</li> <li>• Experimental Mechanics</li> <li>• Composite Materials</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                      |                     |                                     |
| <b>Date of Birth</b>              | 14 <sup>th</sup> January 1980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                      |                     |                                     |
| <b>Education</b>                  | <ul style="list-style-type: none"> <li>• <b>Ph.D.</b> (Aerospace Engineering.) (2005 – 2013): Indian Institute of Technology Madras, Chennai, India.<br/><i>Thesis topic:</i> Characterization of Friction Coefficient at Contact Interface.<br/><i>Advisor:</i> Prof. H. S. N. Murthy, Dept. of Aerospace Engineering, Indian Institute of Technology Madras</li> <li>• <b>M.E.</b> (Aeronautical Engineering) (2002 – 2004): Madras Institute of Technology, Anna University, Chennai.</li> <li>• <b>B.E.</b> (Mechanical Engineering) (1997 – 2001): College of Engineering Guindy, Anna University, Chennai.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                      |                     |                                     |
| <b>Professional Experience</b>    | <ul style="list-style-type: none"> <li>• <b>October 2023 – Current:</b> Associate Professor, Department of Water Resources and Ocean Engineering (Formerly Department of Applied Mechanics and Hydraulics), National Institute of Technology Karnataka, Surathkal, Mangalore, India.</li> <li>• <b>July 2013 – October 2023:</b> Assistant Professor, Department of Water Resources and Ocean Engineering (Formerly Department of Applied Mechanics and Hydraulics), National Institute of Technology Karnataka, Surathkal, Mangalore, India.</li> <li>• <b>Sep. 2009 – July 2013:</b> Assistant Professor, Department of Aerospace Engineering, Madras Institute of Technology, Anna University, Chennai, India.</li> <li>• <b>Aug. 2005 – Aug. 2009:</b> Research Scholar, Department of Aerospace Engineering, Indian Institute of Technology Madras, Chennai, India.</li> <li>• <b>June 2004 – June 2005:</b> Lecturer, Department of Aeronautical Engineering, Park College of Engineering and Technology, Coimbatore, India.</li> </ul> |                                                                                                      |                     |                                     |
| <b>Sponsored R&amp;D Projects</b> | <b>Funding Agency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Title of the Project</b>                                                                          | <b>Project Cost</b> | <b>Current Status</b>               |
|                                   | <b>SERB, DST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Effect of Frictional Heat on Coefficient of Friction during Full Slip of Al6061 T6 Hertzian Contacts | 27 Lakhs            | Completed                           |
|                                   | <b>AR&amp;DB, DRDO</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Partial Slip Fretting Studies on Al 7075-T6 Alloy at Sub-Zero Temperature                            | 18 Lakhs            | Ongoing                             |
| <b>Consultancy Works</b>          | <b>Title</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Agency</b>                                                                                        | <b>Year</b>         | <b>Amount Generated (in Rupees)</b> |

|  |                                                                       |                                                             |      |         |
|--|-----------------------------------------------------------------------|-------------------------------------------------------------|------|---------|
|  | Testing of TMT Bars                                                   | Executive Engineer<br>Mandavi Towers<br>Ambalpadu,<br>Udupi | 2021 | 2 Lakhs |
|  | Testing of TMT Bars                                                   | Vijaya<br>Constructions<br>T.T.Road,<br>Mangalore           | 2020 |         |
|  | Testing of Square Bars                                                | MCKB<br>Constructions<br>LLP, Bangalore                     | 2020 |         |
|  | Testing of TMT Bars                                                   | Assistant<br>Executive<br>Engineer<br>Ambalpadu,<br>Udupi   | 2020 |         |
|  | Testing of TMT Bars                                                   | Ocean<br>Construction                                       | 2019 |         |
|  | Tensile & Bending Test of TMT Bar                                     | RKEC Projects<br>Ltd. Hunnavara                             | 2019 |         |
|  | Mild Steel Bar Testing (dia. 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm) | CITY Real Estate,<br>Surathkal                              | 2019 |         |
|  | Mild Steel Bar Testing (dia. 8 mm, 10 mm, 12 mm)                      | A. E. NITK,<br>CPWD                                         | 2018 |         |
|  | Mild Steel Bar Testing (dia. 8 mm, 10 mm, 12 mm, 16 mm, 20 mm)        | Sudheer Kumar<br>M. Engineers                               | 2018 |         |
|  | Mild Steel Bar Testing (dia. 12 mm, 16 mm)                            | A E NITK, CPWD                                              | 2017 |         |
|  | Mild Steel Bar Testing (dia. 20 mm, 25 mm, 32 mm)                     | Design<br>Associates,<br>Mangalore                          | 2017 |         |
|  | Tensile Test Cast Iron Specimen                                       | S. B. Industries                                            | 2018 |         |
|  | Hardness Test Mild Steel Specimen                                     | S. B. Industries                                            | 2018 |         |
|  | Mild Steel Bar Testing (dia. 32 mm)                                   | Skilled<br>Constructions                                    | 2017 |         |
|  | Mild Steel Bar Testing (dia. 8 mm, 10 mm)                             | A. E. NITK,<br>CPWD                                         | 2017 |         |
|  | Mild Steel Bar Testing (dia. 12 mm)                                   | A. E. NITK,<br>CPWD                                         | 2016 |         |
|  | Mild Steel Bar Testing                                                | Measures Rose<br>Deal<br>Associates,<br>Mangalore           | 2016 |         |
|  | Mild Steel Bar Testing (dia. 8 mm, 12 mm)                             | E. E. NMPT,<br>Mangalore                                    | 2015 |         |

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|                                    | Mild Steel Bar Testing (dia. 8 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NITK, SPSSD-4, CPWD           | 2015 |  |
|                                    | Testing Wood Samples of Brahma Ratha – Sri Mookambika Temple, Kollur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sri Mookambika Temple, Kollur | 2023 |  |
| <b>Industrial Project</b>          | <ul style="list-style-type: none"> <li>“Development of Test Facility for Fretting Fatigue Studies on LP Steam Turbine Blading Steel” (2009-2010) for BHEL, Hyderabad (under the guidance of Prof. H. S. N. Murthy)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |      |  |
| <b>Past Research Activities</b>    | <ul style="list-style-type: none"> <li>Developed a loading frame for Fatigue Testing (200 kN capacity)</li> <li>Developed setup for Reciprocating Friction (Full Sliding) studies as well as Fretting Fatigue Studies. Design involved development of a simple Finite Element Model using Beam-Column elements to study the effect of different dimensions of the Rig and validation using a detailed FEM analysis using ANSYS.</li> <li>Obtained friction coefficient as a function of sliding distance from Reciprocating Full Sliding tests conducted using the developed testing facility.</li> <li>Developed an analysis tool using contact mechanics-based approach that can include the effect of spatial variation of friction coefficient on contact traction.</li> <li>Characterized the Friction Coefficient in Contact interface as a function of time and space using the analysis tool and full sliding tests.</li> <li>Correlated the predictions from Mechanics-based approach with Fretting tests.</li> <li>Involved in establishment of new laboratory facility for Fatigue, Fretting and Friction testing in Aerospace Engineering Department of IIT Madras under the guidance of Prof. H.S.N. Murthy.</li> </ul> |                               |      |  |
| <b>Current Research Activities</b> | <p><b>Friction Studies:</b></p> <ul style="list-style-type: none"> <li>Design of Fretting Rig, which can be used for various Load Transfer Ratios.</li> <li>Experimental Studies on effect of Frictional Heat on Coefficient of Friction during Fretting.</li> <li>Development of Displacement Sensor to measure Micro-level Displacements between components during Fretting Process.</li> <li>Experimental Studies in Coefficient of Friction and Wear of Al6061 T6 Alloy and SS304 Alloy under Full Sliding Condition.</li> <li>Experimental and Numerical Studies on Measurement of Frictional Heat for Full Sliding SS304 Alloy Contacts.</li> <li>Modeling of Frictional Heat in Full Sliding Hertzian Contacts.</li> </ul> <p><b>Design of Thin-walled Structures:</b></p> <ul style="list-style-type: none"> <li>Stress Analysis of Thin-walled Structures.</li> <li>Buckling Analysis of Stiffened Thin-walled Structures.</li> </ul> <p><b>Composite Materials:</b></p> <ul style="list-style-type: none"> <li>Development of Arecanut Husk Fibre Reinforced Epoxy Composites and Study on its Mechanical Characterization.</li> </ul>                                                                                     |                               |      |  |
| <b>Laboratory Development</b>      | <ul style="list-style-type: none"> <li>Developed Experimental Stress Analysis Laboratory in Department of Applied Mechanics and Hydraulics, NITK-Surathkal.</li> <li>Developed Advanced Structural Mechanics Laboratory in Department of Applied Mechanics and Hydraulics, NITK-Surathkal.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |      |  |
| <b>Research Interaction</b>        | <ul style="list-style-type: none"> <li>Visited Trinity College Dublin, Ireland for research interaction from 29<sup>th</sup> June 2016 to 6<sup>th</sup> July 2016 inclusive, hosted by Prof. Roger P. West, Trinity College Dublin, Director of Structural Laboratories, School of Engineering.</li> <li>In collaboration with Prof. Roger P. West, Professor, Director of Structural Laboratories, C-Programming code was developed to analyze the structural</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |      |  |

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|                                          | response of a Beam-Column joint which was being tested in a 3,000 kN Internal Reaction Rig.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                                                                 |                        |
| <b>Publications</b>                      | <ul style="list-style-type: none"> <li>• 14 peer reviewed Journal Publications.</li> <li>• 10 Materials Today: Proceedings.</li> <li>• 33 Papers presented in International Conferences.</li> <li>• 2 manuscripts are under review.</li> <li>• 5 more manuscripts are under preparation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                                                 |                        |
| <b>Webinar Presentation</b>              | <ul style="list-style-type: none"> <li>• Presented lecture on “Fretting on Aerospace Structures” in Nehru Institute of Engineering and Technology, Coimbatore, September, 2021.</li> <li>• Presented lecture on “Finite Element Formulation on One Dimensional Boundary Value Problem” in Karunya Institute of Technology and Science, Coimbatore, October, 2021.</li> <li>• Presented lecture on “Application of Finite Element Method in Research” in Dr. Mahalingam college of Engineering and Technology, Pollachi, June, 2021.</li> <li>• Presented lecture on “Advanced Material Characterization Techniques” in Vel Tech Rangarajan Dr. Sagunthala R&amp;D Institute of Science and Technology, Chennai, June, 2021.</li> </ul> |                       |                                                                                                                 |                        |
| <b>Supervision of Dissertation Works</b> | <b>Ph.D. Degree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                                                 |                        |
|                                          | <b>Sl. No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Name</b>           | <b>Thesis Title</b>                                                                                             | <b>Year of Degree</b>  |
|                                          | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Muralidhar N.         | Mechanical Characterization of Arecanut Husk Fibre Composite Panels under Static and Dynamic Loading Conditions | 2019                   |
|                                          | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ram Chandra Rao N.    | Buckling Analysis of Offshore Pipelines with Various Buckle Arrestor Configurations under Static Axial Load     | 2020                   |
|                                          | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sreenivasalu Reddy I. | Experimental Studies on Friction Coefficient of Al 6061-T6 Alloy Contacts under Full Sliding                    | 2021                   |
|                                          | 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Raja Pandi R.         | Design of Fretting Rig and Thin Contact Displacement Sensor for Fretting Experiments                            | 2022                   |
|                                          | 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Murugan N.            | Static Structural Studies on Reinforced Tubular T-Joints of Offshore Jacket Structures                          | 2023                   |
|                                          | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Raveesh R.M.          | Frictional Studies on Metallic Contacts using Pin on Disk Tribometer                                            | Under Progress         |
|                                          | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sahana T.S.           | Mechanical Characterization of the Strain Gauge Adhesive Layer                                                  | Under Progress         |
|                                          | 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pugal Vendan B.       | Studies on Average Coefficient of Friction at Hertzian Contact Subjected to Partial Slip                        | Under Progress         |
|                                          | 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Balan R.              | Thermal Buckling Analysis of Offshore Pipelines using Finite Element Method                                     | Under Progress         |
|                                          | <b>Project Staffs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                                                                 |                        |
|                                          | <b>Sl. No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Name</b>           | <b>Project Title</b>                                                                                            | <b>Year of Joining</b> |
|                                          | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Raveesh R.M.          | Effect of Frictional Heat on Coefficient of Friction during Full Slip of Al6061 T6 Hertzian Contacts            | 2018                   |

| 2.                               | A. P. Keerthy Naga      | Partial Slip Fretting Studies on Al 7075-T6 Alloy at Sub-Zero Temperature                                      | 2021           |
|----------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------|----------------|
| 3.                               | Vijaylaxmi C.H.         | Partial Slip Fretting Studies on Al 7075-T6 Alloy at Sub-Zero Temperature                                      | 2022           |
| <b>M.Tech. (Research) Degree</b> |                         |                                                                                                                |                |
| Sl. No.                          | Name                    | Thesis Title                                                                                                   | Year of Degree |
| 1.                               | Vijaylaxmi C.H.         | Axial Force and Displacement Diagram for J-Lay Offshore Pipelines                                              | 2022           |
| <b>M.Tech. Degree</b>            |                         |                                                                                                                |                |
| Sl. No.                          | Name                    | Thesis Title                                                                                                   | Year of Degree |
| 1.                               | Chockappan Neethipathi  | Effect of Adhesive Thickness and Carrier Material on Electrical Resistance Strain Gauge (MIT, Anna University) | 2012           |
| 2.                               | Neeraja J.              | Dynamic and Buckling Analysis of Jacket Structure using Simplified Finite Element Method                       | 2015           |
| 3.                               | Srinivasula Reddy I.    | Static Analysis of Subsea Pipeline using Finite Difference Method                                              | 2015           |
| 4.                               | Sathish S.C.            | Buckling Analysis of Subsea Pipeline using Approximate Method                                                  | 2015           |
| 5.                               | Jithin K Rajeev         | Static Analysis of Offshore Structure using Finite Element Method                                              | 2015           |
| 6.                               | Amey Abraham            | Buckling Analysis of Stiffened Columns for Submarine Pipelines using Finite Element Method                     | 2016           |
| 7.                               | S. Gowtham              | Wear and Friction Analysis of Metallic Contact                                                                 | 2016           |
| 8.                               | Yadhav Adinath Dnyandev | Contact Analysis of Cylinder on Flat Contact using Finite Element Approach                                     | 2016           |
| 9.                               | Oggu Chandrasekhar      | Stress Analysis for Varying Cross-Sectional Cantilever Beam                                                    | 2016           |
| 10.                              | Anem Surya              | Elastic Buckling Analysis of Stiffened Circular Pipes under Axial and Thermal Loads                            | 2017           |
| 11.                              | Vandana R Nath          | Design and Analysis of Wind Energy Converter on Spar Platform                                                  | 2017           |
| 12.                              | Kondati Stephen Raju    | Buckling Analysis of Stiffened Circular Pipes under Axial Loads                                                | 2018           |
| 13.                              | Sanjay Babu             | Analysis of Multi-Layered Composite Pipes under Internal Pressure                                              | 2018           |

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|-----|--------------------------|-------------------------------------------------------------------------------------------------------------|------|
| 14. | Kalal Nikesh Pukhraj     | Numerical Modelling of Rectangular Pin Stiffeners on Buckling Analysis of Offshore Pipelines                | 2018 |
| 15. | Thyaneshwaran T.         | Experimental and Numerical Investigations on Wave Structure Interaction with Seawater Intake Caisson        | 2019 |
| 16. | Nalukurthi Sandeep Kumar | Grooving Technique for Improving Mechanical Properties of IS 2062 Mild Steel subjected to Tensile Loads     | 2019 |
| 17. | Shaik Abdul Shareef      | Grooving Technique for Improving Mechanical Properties of IS 2062 Mild Steel subjected to Compressive Loads | 2019 |
| 18. | Illa Hemanth Sai         | Finite Element Modelling of Contact Surfaces of Offshore Structures According to Sea Conditions             | 2020 |
| 19. | Debjyoti Roychowdhury    | Transient Analysis of Heat Transfer in Offshore Pipeline                                                    | 2020 |
| 20. | Meenu P.V.               | Design of Piezoelectric Beam using Finite Element Method for Offshore Structures                            | 2020 |
| 21. | K. Venkateshwara Reddy   | Finite Element Modelling of Shot Peening Effect on Tubular T-Joint of Jacket Structures                     | 2020 |
| 22. | Bharath Kumar E.         | Thermal Buckling Analysis of Offshore Pipelines using Finite Element Method                                 | 2021 |
| 23. | Lakshmi H Kumar          | Stress Analysis of J-Lay and S-Lay Pipelines using Finite Element Method                                    | 2021 |
| 24. | Rakesh R.                | Structural Analysis of Jacket Structure using Finite Element Method                                         | 2021 |
| 25. | Yogananda K.             | Development of Airy's Stress Function for Offshore Pipeline Loading                                         | 2021 |
| 26. | Gautam Kumar             | Numerical and Experimental Buckling Analysis of Offshore Pipelines                                          | 2022 |
| 27. | Saiarpan V Joshi         | Stress Analysis of Thin Rectangular Section Subjected to Twisting Moment                                    | 2022 |
| 28. | T. S. Sreejith           | Finite Element Modelling and Experimental Verification on Reinforced Jacket Structure                       | 2022 |
| 29. | Piyush Kumar             | Experimental Technique to Measure Stress Concentration for a Plate with a Hole Subjected to Biaxial Loading | 2022 |
| 30. | Sitender Kumar Jajoria   | Stress Analysis of Nominal Flat Contact Involved in Offshore Structures                                     | 2022 |

| 31.                              | Megha R                  | Finite Element Analysis of Thick Beam Attached with Piezoelectric Strips for Offshore Pipeline Application                          | 2023           |
|----------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 32.                              | Netala Prashanth         | Strengthening of Rectangular Members in Offshore Jacket Structures using Finite Element Method and Experimental Approach            | 2023           |
| 33.                              | Vikas Pal                | Finite Element Analysis of Tensile Specimen with Centrally Placed Small Circular Hole using In-Plane Loading Conditions             | 2023           |
| 34.                              | Abhilasha                | Static Analysis of Offshore Structure made up of Square Cross Section Element using Finite Element Method and Experimental Approach | 2023           |
| 35.                              | Martin Charles           | Finite Element Analysis of Axially Loaded Non-Prismatic Bars                                                                        | 2023           |
| <b>B.Tech. Degree</b>            |                          |                                                                                                                                     |                |
| Sl. No.                          | Name                     | Thesis Title                                                                                                                        | Year of Degree |
| 1.                               | Amarjeet Chaupal         | Stress Analysis of Rectangular Plate with Circular Hole using Finite Element Method                                                 | 2015           |
|                                  | Kiran S.                 |                                                                                                                                     |                |
|                                  | Manjunath A.             |                                                                                                                                     |                |
|                                  | Yadram Meena             |                                                                                                                                     |                |
| <b>B.Tech. Mini Project Work</b> |                          |                                                                                                                                     |                |
| Sl. No.                          | Name                     | Thesis Title                                                                                                                        | Year of Degree |
| 1.                               | Katakam Rakesh Naga Sai  | Analysis of Beams by Finite Element Method                                                                                          | 2017           |
|                                  | Arramshetty Venkatesh    |                                                                                                                                     |                |
|                                  | Telugu Shiva Kumar       |                                                                                                                                     |                |
| 2.                               | Sai Ram Maneesh V.       | Study of Thermal Buckling of Beams                                                                                                  | 2017           |
|                                  | G.V. Vineeth             |                                                                                                                                     |                |
|                                  | Syed Yusuf               |                                                                                                                                     |                |
| 3.                               | Kinkiri Govardhana Reddy | Generation of Stiffness Matrix using Finite Element Approach                                                                        | 2017           |

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|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | P. Umamaheshwar Reddy                                  |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | K. Seshu                                               |                                                                                                     |                       |  |
|                                                     | 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B. Mounika                                             | Stress Distribution on Plate Containing Hole                                                        | 2018                  |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CH. Harika                                             |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | G. Akhila                                              |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M. Akshara                                             |                                                                                                     |                       |  |
|                                                     | <b>Summer Internship Project</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |                                                                                                     |                       |  |
|                                                     | <b>Sl. No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Name</b>                                            | <b>Project Title</b>                                                                                | <b>Year of Degree</b> |  |
|                                                     | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Hari Krishnan Ravichandran                             | Transient Analysis of Heat Transfer Problems on Axisymmetric Structures using Finite Element Method | 2014                  |  |
|                                                     | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nirmal Krishna R.                                      | Integrated C++ Code to Solve 1-D Beam Element using Finite Element Method                           | 2016                  |  |
| 3.                                                  | V.S. Hari Prashad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Experimental Stress Analysis of Thin-Walled Structures | 2017                                                                                                |                       |  |
| <b>Recently Taught Courses at NITK</b>              | <b>Undergraduate (B.Tech.)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Engineering Mechanics                                  |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mechanics of Solids                                    |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Theory of Isotropic Elasticity                         |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Finite Element Method and Applications                 |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mechanics of Solids Lab                                |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strength of Materials Lab                              |                                                                                                     |                       |  |
|                                                     | <b>Postgraduate (M.Tech.)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Finite Element Applications in Marine Structures       |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Marine Structures and Instrumentation Lab              |                                                                                                     |                       |  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Applied Elasticity                                     |                                                                                                     |                       |  |
| <b>Reviewer for Journals, Conferences and Books</b> | <b>Journals:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |                                                                                                     |                       |  |
|                                                     | <ul style="list-style-type: none"> <li>• International Journal of Fatigue</li> <li>• Ships and Offshore Structures</li> <li>• Journal of the Institution of Engineers (India): Series D (IEID)</li> <li>• Journal of the Institution of Engineers (India): Series C (IEIC)</li> <li>• Materials Today: Proceedings</li> <li>• Aircraft Engineering and Aerospace Technology for the year 2019</li> <li>• Current Agriculture Research Journal for the year 2019</li> <li>• World Journal of Engineering</li> <li>• Journal of Naval Architecture and Marine Engineering</li> <li>• International Journal of Mechanical and Production Engineering</li> </ul> |                                                        |                                                                                                     |                       |  |



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|  | <p><b>Conferences:</b></p> <ul style="list-style-type: none"> <li>• Technical Review for the International Conference on Water Resources, Coastal and Ocean Engineering 2015 [ICWRCOE'15], Organized by Dept. of Applied Mechanics and Hydraulics, National Institute of Technology Karnataka (NITK).</li> <li>• Technical Review for the International Conference on RIPE 2017 organized by Department of Production Technology, Madras Institute of Technology, Chennai.</li> </ul> <p><b>Books:</b></p> <ul style="list-style-type: none"> <li>• Advanced Mechanics of Materials, 6<sup>th</sup> Edition, authored by Arthur P. Boresi, Richard J. Schmidt, bearing ISBN: 978-81-947263-9-5, Content Contribution for Indian Adaptation by Dr. Vadivuchezhian Kaliveeran, Published by Wiley India Pvt. Limited.</li> <li>• Mechanics of Materials, 5<sup>th</sup> Edition, authored by Timothy A. Philpot, Jeffery S. Thomas, bearing ISBN: 978-1-119-85997-0, Content Contribution for Indian Adaptation by Dr. Vadivuchezhian Kaliveeran, Published by Wiley India Pvt. Limited.</li> <li>• Reviewed chapter 2 (two-dimensional concurrent force systems) and chapter 3 (two-dimensional non-concurrent force systems), Engineering Mechanics: An Example Based Approach, Cambridge University Press, India.</li> </ul> |
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| <b>Academic Responsibilities</b> | <b>Responsibilities</b> | <b>Role</b>                                                                                                                             | <b>Year</b> |
|                                  | Secretary               | DRPC Secretary of Department of Water Resources and Ocean Engineering                                                                   | 2017-2022   |
|                                  | Secretary               | Overall in-charge for Ph.D./M.Tech. (Research) Application Scrutinizing Committee, Department of Applied Mechanics and Hydraulics, NITK | 2017-2020   |
|                                  | Chairman                | Co-Chairman for Ph.D. Applications Scrutiny Committee of Department of Applied Mechanics and Hydraulics                                 | 2018-2019   |
|                                  | Faculty In-Charge       | Strength of Materials Lab, Department of Applied Mechanics and Hydraulics                                                               | 2018-2019   |
|                                  | Secretary               | Seminar Monitoring Committee, Department of Applied Mechanics and Hydraulics                                                            | 2018-2019   |
|                                  | Secretary               | DRPC Secretary (member), Department Examination Monitoring Team, Department of Applied Mechanics and Hydraulics                         | 2018-2019   |
|                                  | Convener                | Co-Convener of Procession Committee, 16th Annual Convocation, NITK                                                                      | 2018-2019   |
|                                  | Secretary               | Ph.D. Comprehensive Exam Committee, Department of Applied Mechanics and Hydraulics                                                      | 2018-2019   |
|                                  | Convener                | Co-Convener of Procession Committee, 16th Annual Convocation, NITK                                                                      | 2018-2019   |
|                                  | Chairman                | DTAC member, NITK                                                                                                                       | 2018-2019   |

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|  | Chairman                         | PWEC member, NITK                                                                                       | 2018-2019 |
|  | Chairman                         | RPAC member, NITK                                                                                       | 2018-2019 |
|  | Secretary                        | Document Collection Committee Member for NIRF                                                           | 2018-2019 |
|  | Faculty-In-Charge                | Student Council Election (2019-2020), Department of Applied Mechanics and Hydraulics                    | 2018-2019 |
|  | Institute Level Committee Member | PWEC/Major Project Evolution Committee, M. Tech. (Marine Structures)                                    | 2019-2021 |
|  | Institute Level Committee Member | Member RPAC for Civil Engineering and Mechanical Engineering Departments.                               | 2019-2020 |
|  | Institute Level Committee Member | Member for NBA activities for Marine Structures Stream, Department of Applied Mechanics and Hydraulics. | 2019-2020 |
|  | Institute Level Committee Member | DTAC Member                                                                                             | 2019-2020 |
|  | Institute Level Committee Member | DRPC Comprehensive Ex Secretary                                                                         | 2019-2020 |
|  | Secretary                        | Department Level Technical Committee Member for Marine Structures                                       | 2019-2020 |
|  | Secretary                        | Department Level Exam Monitoring Committee Member                                                       | 2019-2020 |
|  | Institute Level Committee Member | Committee Member for Anti-Raging                                                                        | 2019-2020 |
|  | Institute Level Committee Member | Purchase Committee Member                                                                               | 2019-2020 |
|  | Institute Level Committee Member | Member MTAC                                                                                             | 2019-2020 |
|  | Institute Level Committee Member | PWEC/Major Project Evaluation Committee/Civil Engineering                                               | 2020-2021 |
|  | Institute Level Committee Member | PWEC/Major Project Evaluation Committee/Mathematics Department                                          | 2020-2021 |
|  | Institute Level Committee Member | Member RPAC for Civil Engineering                                                                       | 2020-2021 |

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| Institute Level Committee Member | Member RPAC for Mechanical Engineering                                                                                                 | 2020-2021 |
| Institute Level Committee Member | DTAC Member                                                                                                                            | 2020-2021 |
| Institute Level Committee Member | DRPC Comprehensive Exam Secretary                                                                                                      | 2020-2021 |
| Institute Level Committee Member | Purchase Committee Member                                                                                                              | 2020-2021 |
| Institute Level Committee Member | MTAC Member                                                                                                                            | 2020-2021 |
| Institute Level Committee Member | Department Coordinator for the online test Ph.D. and M.Tech. Admission                                                                 | 2020-2021 |
| Convener                         | Syllabus Committee for Starting of UG Programme                                                                                        | 2020-2021 |
| Institute Level Committee Member | Members from NITK Surathkal in Regional Academic Centre for Space (RAC-S) Committee                                                    | 2020-2021 |
| Secretary                        | Overall in-charge for Ph.D./M.Tech. (Research) Application Scrutinizing Committee, Department of Water Resources and Ocean Engineering | 2020-2021 |
| Institute Level Committee Member | Scrutiny Committee Member for Recruitment of Non-Teaching Faculty Position in the Department of Water Resources and Ocean Engineering. | 2020-2021 |
| Institute Level Committee Member | Members from NITK Surathkal in Regional Academic Centre for Space (RAC-S) Committee                                                    | 2020-2022 |
| Institute Level Committee Member | Scrutiny Committee Member for Recruitment of Non-Teaching-Faculty Position in the Department of Applied Mechanics & Hydraulics, NITK   | 2020-2021 |
| Faculty-In-Charge                | Ring Presentation Ceremony                                                                                                             | 2022      |
| Convener                         | Co-Convener of Procession Committee, NITK                                                                                              | 2019-2022 |
| JoSAA/CSAB 2022                  | Document Verifying Official for JoSAA/CSAB 2022                                                                                        | 2022      |
| JoSAA/CSAB 2022                  | Approval Officials Team for JoSAA/CSAB 2022                                                                                            | 2022      |

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|                               | Institute Level Committee Member                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DTAC Member                                                                    | 2019-Present |
|                               | Secretary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DPGC Secretary of Department of Water Resources and Ocean Engineering          | 2022-Present |
|                               | Faculty In-Charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Strength of Materials Lab, Department of Water Resources and Ocean Engineering | 2019-2022    |
|                               | Institute Level Committee Chairman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PWEC Chairman                                                                  | 2019-Present |
| <b>Other Responsibilities</b> | <p><b>Thesis Evaluator:</b></p> <ul style="list-style-type: none"> <li>• M.S. thesis titled “Fretting Fatigue Behaviour of Ti-6Al-4V” sent by IITM,</li> <li>• M.S. Thesis titled “Fretting Fatigue Behaviour of SU-718 Alloy” sent by IITM.</li> <li>• M.Tech. (Research) Thesis titled “Investigation of Corrosion Induced Cover Cracking in Beams” sent to NITK.</li> </ul> <p><b>Invited Lectures Delivered:</b> More than Five invited lectures delivered in various institutions.</p> <ul style="list-style-type: none"> <li>• Invited lecture delivered on “Mechanics of materials”, on 22<sup>nd</sup> July 2015 at Alva’s Institute of Engineering and Technology (AIET), Karnataka.</li> <li>• Invited lecture delivered on “Basic Strength of Materials”, on 15<sup>th</sup> September 2015 at Vel Tech Dr. RR &amp; Dr.SR Technical University, Chennai.</li> <li>• Invited lecture delivered on “Basics of Structural Analysis on Bar and Beam”, on 22<sup>nd</sup> March 2016 at Bharath Institute of Higher Education &amp; Research, Chennai.</li> <li>• Invited lecture delivered on “Finite Element Methods”, on 22<sup>nd</sup> August 2016 at Vel Tech Dr. RR &amp; Dr.SR Technical University, Chennai.</li> <li>• Invited lecture delivered on “Engineering Mechanics”, on 22<sup>nd</sup> August 2016 at Vel Tech Dr. RR &amp; Dr.SR Technical University, Chennai.</li> <li>• Invited lecture delivered on “A March to IITs and NITs”, on 23<sup>rd</sup> August 2016 at Vellayan Chettiar Higher Secondary School, Chennai.</li> <li>• Invited as expert lecturer on Engineering Mechanics by NIT Goa in March 2019.</li> <li>• Invited lecture delivered on Design of Fretting Fixtures in Aerospace Engineering by SRM University in November 2022.</li> <li>• Invited lecture delivered on Design of Fretting Fixtures in Production Engineering Department by MIT Campus (Anna University) in May 2023.</li> </ul> <p><b>Doctoral Committee Member</b> – Department of Aerospace Engineering MIT campus, Anna University, Chennai; Department of Mechanical Engineering, Dr. Mahalingam College of Engineering. and Technology., Anna University, Chennai.</p> <p><b>Member</b> – Board of studies, Department of Aeronautical Engineering, Vel Tech Dr. RR &amp; Dr.SR Technical University, Chennai, 2016, 2017.</p> <p><b>Co-chairman</b>, technical sessions of ICWRCOE'15, NITK.</p> <p><b>Member</b> – Executive Committee Members in workshop on Past, Present and Future Scenario of Marine Structures, 20<sup>th</sup> February, 2017, NITK.</p> <p><b>Member</b> - NBA - SAR for PG (M.Tech. (Marine Structures)) Program, NITK.</p> <p><b>Co-Ordinator</b> – MOU Co-Ordinator, Dept. of Applied Mechanics and Hydraulics, NITK, 2015.</p> |                                                                                |              |

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|                                            | <p><b>Co-Ordinator</b> – Staff Development, Dept. of Applied Mechanics and Hydraulics, NITK, 2015.</p> <p><b>Member</b> – Anti-Ragging Committee, NITK.</p> <p><b>Co-Convenor</b>, Procession Committee, NITK-Convocation 2016, 2017 &amp; 2018.</p> <p><b>Committee Member</b> – Beach Events, college festival “INCIDENT-2015”, NITK.</p> <p><b>Member</b> - LOC - Centralized Counseling for M.Tech. Admission (CCMT 2017), NITK.</p> <p><b>Syllabus Committee Member:</b> B.E. (Aerospace Engineering), M.E. (Aerospace Engineering), and M.E. (Aeronautical Engineering), MIT Campus, Anna University.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Scholastic Achievements</b></p>      | <ul style="list-style-type: none"> <li>• Qualified in Graduate Aptitude Test in Engineering (GATE) – 2003, Mechanical Engineering stream with 85.41 percentile and AIR 3775.</li> <li>• Received MHRD Stipend for M.E. Aeronautical Engineering at MIT Campus, Anna University.</li> <li>• Received MHRD Stipend for Ph.D. Aerospace Engineering at IIT Madras under HTRA Scheme.</li> <li>• Obtained Centum mark in SSLC Mathematics conducted by State Board of Tamilnadu.</li> <li>• Cleared the Ph.D. Comprehensive exam from the first attempt at IIT Madras.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p><b>Materials Today: Proceedings</b></p> | <ol style="list-style-type: none"> <li>1. Raja Pandi R., <b>Vadivuchezhian Kaliveeran</b>, “Finite element analysis of rig used for fretting experiments.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.09.126">https://doi.org/10.1016/j.matpr.2019.09.126</a>.</li> <li>2. Ramachandra Rao N., <b>Vadivuchezhian Kaliveeran</b>, “Effective buckle arrestors for offshore pipelines.” Materials Today: Proceedings, 2020, Vol.27, p.2277-2281, <a href="https://doi.org/10.1016/j.matpr.2019.09.112">https://doi.org/10.1016/j.matpr.2019.09.112</a>.</li> <li>3. Muralidhar N., <b>Vadivuchezhian Kaliveeran</b>, Arumugam V. and I. Srinivasula Reddy, “Flexural Strength and Flexural modulus of Epoxy Composites Reinforced with Arecanut Husk Fibre and glass fibre.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.09.109">https://doi.org/10.1016/j.matpr.2019.09.109</a>.</li> <li>4. Murugan N., <b>Vadivuchezhian Kaliveeran</b>, M. K. Nagaraj, “Effect of grooves on the static strength of Tubular T joints of Offshore Jacket structures.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.10.132">https://doi.org/10.1016/j.matpr.2019.10.132</a>.</li> <li>5. Ramachandra Rao N., <b>Vadivuchezhian Kaliveeran</b>, “Analysis and design of inclined buckle arrestors for offshore pipeline.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.09.113">https://doi.org/10.1016/j.matpr.2019.09.113</a>.</li> <li>6. Ramachandra Rao N., <b>Vadivuchezhian Kaliveeran</b>, “Finite element modeling and experimental validation of rectangular pin buckle arrestors for offshore pipelines.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.09.207">https://doi.org/10.1016/j.matpr.2019.09.207</a>.</li> <li>7. Palanikumar P., Gnanasekaran N., Subrahmanya K., <b>Vadivuchezhian Kaliveeran</b>, “Identification of Effective location of Thermocouples from the Contact Interface.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.12.373">https://doi.org/10.1016/j.matpr.2019.12.373</a>.</li> <li>8. Palanikumar P., Gnanasekaran N., Subrahmanya K., <b>Vadivuchezhian Kaliveeran</b>, “Effect of sliding speed and rise in temperature at the contact interface on coefficient of friction during full sliding of SS304.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.09.046">https://doi.org/10.1016/j.matpr.2019.09.046</a>.</li> </ol> |

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|                                                                | <p>9. I. Srinivasula Reddy, <b>Vadivuchezhian Kaliveeran</b>, “Dry sliding friction and wear of Al 6061 and Al 6082 alloys under different normal loads.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.11.080">https://doi.org/10.1016/j.matpr.2019.11.080</a>.</p> <p>10. I. Srinivasula Reddy, <b>Vadivuchezhian Kaliveeran</b>, “Sliding of various ductile materials (Al 6061, Al 6082) using pin on disc setup.” Materials Today: Proceedings, 2019, <a href="https://doi.org/10.1016/j.matpr.2019.11.248">https://doi.org/10.1016/j.matpr.2019.11.248</a>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p style="text-align: center;"><b>Journal Publications</b></p> | <ol style="list-style-type: none"> <li>1. <b>K. Vadivuchezhian</b>, S. Sundar and H. Murthy, "Effect of variable friction coefficient on contact tractions", Tribology International, Vol. 44, pp 1433 –1442 (2011), <a href="https://doi.org/10.1016/j.triboint.2011.03.022">https://doi.org/10.1016/j.triboint.2011.03.022</a>.</li> <li>2. <b>Vadivuchezhian Kaliveeran</b>, Subrahmanya Kundapura and Chockappan Neethipathi, "Finite Element Modeling of Effect of Adhesive Layer used for Strain Gauge Mounting ", Advanced Materials Research, Vol. 1119, pp 828 –832 (2015), <a href="https://doi.org/10.4028/www.scientific.net/AMR.1119.828">https://doi.org/10.4028/www.scientific.net/AMR.1119.828</a>.</li> <li>3. Subrahmanya Kundapura, <b>Vadivuchezhian Kaliveeran</b> and Chockappan Neethipathi, "Experimental Verification of Effect of Adhesive Layer Thickness used for Strain Gauge Mounting", Advanced Materials Research, Vol. 1119, pp 789 –793 (2015), <a href="https://doi.org/10.4028/www.scientific.net/AMR.1119.789">https://doi.org/10.4028/www.scientific.net/AMR.1119.789</a>.</li> <li>4. H. Murthy and <b>K. Vadivuchezhian</b>, "Estimation of friction distribution in partial-slip contacts from reciprocating full-sliding tests", Tribology International, Vol. 108, pp 164 –173 (2017), <a href="https://doi.org/10.1016/j.triboint.2016.09.007">https://doi.org/10.1016/j.triboint.2016.09.007</a>.</li> <li>5. N. Muralidhar, <b>K. Vadivuchezhian</b>, V. Arumugam and I. Srinivasula Reddy “A Study on Areca nut Husk Fibre Extraction, Composite Panel Preparation and Mechanical Characteristics of the Composites”, J. Inst. Eng. India Ser. D, Vol. 100, pp 135–145 (2019), <a href="https://doi.org/10.1007/s40033-019-00186-1">https://doi.org/10.1007/s40033-019-00186-1</a>.</li> <li>6. N. Muralidhar, <b>K. Vadivuchezhian</b>, V. Arumugam and I. Srinivasula Reddy “Dynamic Mechanical Characterization of Epoxy Composite Reinforced with Arecanut Husk fiber”, Archive of Mechanical Engineering, Vol. 67, pp 57-72, (2020), <a href="https://doi.org/10.24425/ame.2020.131683">https://doi.org/10.24425/ame.2020.131683</a>.</li> <li>7. Ramachandra Rao N., <b>Vadivuchezhian Kaliveeran</b>, “Finite Element Modeling and experimental validation of rectangular pin buckle arrestors for offshore pipelines.” Mechanics Based Design of Structures and Machines, (2020) <a href="https://doi.org/10.1080/15397734.2020.1725562">https://doi.org/10.1080/15397734.2020.1725562</a>.</li> <li>8. I. Srinivasula Reddy, <b>Vadivuchezhian Kaliveeran</b>, “Coefficient of friction of dry sliding Al 6061-T6 alloy under different loading conditions”, World Journal of Engineering, <a href="https://doi.org/10.1108/WJE-06-2020-0212">https://doi.org/10.1108/WJE-06-2020-0212</a>.</li> <li>9. I. Srinivasula Reddy, <b>Vadivuchezhian Kaliveeran</b>, “Wear of dry sliding Al 6061-T6 alloy under different loading conditions.” International Journal of Surface Engineering and Interdisciplinary Materials Science, <a href="https://doi.org/10.4018/IJSEIMS.2022010106">https://doi.org/10.4018/IJSEIMS.2022010106</a>.</li> <li>10. Raja Pandi R., <b>Vadivuchezhian Kaliveeran</b>, “Design of Thin Curved Sensor to Measure Contact Slip in Fretting Experiments.” Journal of Naval Architecture and Marine Engineering, 2022, <a href="https://doi.org/10.3329/jname.v19i1.52171">https://doi.org/10.3329/jname.v19i1.52171</a></li> <li>11. Vijaylaxmi C. H., <b>Vadivuchezhian Kaliveeran</b>, Subrahmanya Kundapura, “Static Analysis of J-Lay Offshore Pipeline Installation Method”, International Journal of Mechanical and Production Engineering, ISSN(p): 2320-2092, ISSN(e): 2321-2071, Volume-9, Issue-9, Sept.-2021, <a href="https://doi.org/IJMPE-IRAJ-18171">https://doi.org/IJMPE-IRAJ-18171</a></li> </ol> |

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|                                                                  | <p>12. Vijaylaxmi C. H., <b>Vadivuchezhian Kaliveeran</b>, Subrahmanya Kundapura, "Stress Analysis of J-Lay Offshore Pipeline Installation Method", International Journal of Mechanical and Production Engineering, ISSN(p): 2320-2092, ISSN(e): 2321-2071, Volume-9, Issue-11, Nov.-2021, <a href="https://doi.org/IJMPE-IRAJ-18273">https://doi.org/IJMPE-IRAJ-18273</a></p> <p>13. R. Balan, <b>Vadivuchezhian Kaliveeran.</b>, (2023) "Thermal Buckling of Steel Tube using Finite Element Method", Materials Today Proceedings, 2023: <a href="https://doi.org/10.1016/j.matpr.2023.05.738">https://doi.org/10.1016/j.matpr.2023.05.738</a></p> <p>14. Sahana T S, <b>Vadivuchezhian Kaliveeran</b>, and Subrahmanya Kundapura.,(2022) "Mechanical characterization of adhesive layer using Double strap joint specimens", Materials Today Proceedings, 2022: <a href="https://doi.org/10.1016/j.matpr.2022.05.591">https://doi.org/10.1016/j.matpr.2022.05.591</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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