

Dr.V.K.BUPESH RAJA, PH.D.,



EXPERIENCE

- ❖ Serving as Professor and Head of Automobile Engineering Department, in Sathyabama Institute of Science and Technology from 12-07-2012 to till date.
- ❖ Joined as a Senior Lecturer on 04-06-2007, in the Department of Mechanical and Production Engineering, Sathyabama University, Chennai.
- ❖ Served as Assistant Professor from 27-02-2006 to 21-05-2007 in Department of Mechanical Engineering, Dr.M.G.R. University, Chennai.
- ❖ Served as Senior Lecturer from 19-04-2001 to 22-02-2006 in Department of Mechanical Engineering, Sriram Engineering College, Chennai. Served as ME (CIM) Programme Coordinator in Sriram Engineering College.
- ❖ Served as Trainee in GEC Alsthom, Chennai from 26-07-1994 to 10-06-1995.

FIELD OF INTEREST

Advanced Welding Techniques, Super Alloys, Light Metals, Material Characterization, Material Technology, Laser Material Processing and Surface Modification, Bioimplants, Composites, Geopolymer, Corrosion, Wear, etc

RESEARCH EXPERIENCE

Overseas Research Fellowship (ORF) on the topic “*Biocompatibility studies on Resorbable Magnesium Bioimplants*”, under the supervision of Dr.Manoj Gupta, Associate Professor, Materials Division, Department of Mechanical engineering, National University of Singapore (NUS), Singapore.

EDUCATIONAL QUALIFICATION

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|-----------------------|---|-------------|
| ORF(PDF) | National University of Singapore (NUS), Singapore. | 2018 |
| PhD | Sathyabama University, Chennai. | 2011 |
| ME(CAD) | University of Madras, Chennai. | 1998-2001 |
| BE(MECHANICAL) | University of Madras, Chennai. (Lateral Entry) | 1995-1998 |
| DME(DIPLOMA) | Sri Nallalaghu Polytechnic, Chennai. | 1990-1993 |

Ph.D TOPIC

Experimental Investigation on Welding Characteristics Of Ti6Al4V Alloy - Using GTAW and LBW Technique.

FUNDED RESEARCH PROJECTS

| S.No | Name of the Investigators | Title of proposal | Agency | Duration | Amount Sanctioned | Status |
|------|--|---|--|----------|-------------------|-----------|
| 1 | Dr.V.K.Bupesh Raja (PI) Dr.Padmapriya Dr.V.Ganesh Kumar | Utilization of Steel Plant waste in manufacture of paver blocks and slag foams [Ref:F.No.11 (1)/SDF/2013/TW dated 04/09/2013] | Ministry of Steel | 3 years | Rs 73,00,000 | Completed |
| 2 | Dr.V.Ganesh Kumar Dr.V.K.Bupesh Raja (Co PI) Dr.Padmapriya | Utilization of Steel Slag materials in concrete for radiation shielding studies [Ref.No: AERB/CSRP/Proj.No . 65/07/20] | Atomic Energy Regulatory Board (AERB) | 2 years | Rs 19,48,500 | Ongoing |
| 3 | Dr.Sheela Rani Dr.Nanditha Dr.V.K.Bupesh Raja (Co PI) | Development of on-line monitoring system for preventing weld defects in Automated Gas Tungsten Arc [SR/S3/ME/0048/201 | Department of Science and Technology (DST) | 2 years | Rs.25,97,617 | Completed |

FUNDED PROJECT MENTORSHIP

| S.No | Title of proposal | Agency | Duration | Amount Sanctioned | Status |
|------|--|--|----------|-------------------|---------|
| 1 | Cellulose Geopolymer Sandwich thermal shield for Automobiles | Startup Seed Grant, Technology Business Incubator(TBI), NSTEDB – DST | 1 year | Rs.70,000 | Ongoing |
| 2 | Novel Geopolymer Foam Material for Emission Control in Diesel Engines. | Startup Seed Grant, Technology Business Incubator(TBI), NSTEDB – DST | 1 year | Rs 60,000 | Ongoing |
| 3 | Fabrication of EMI Shielding Materials | Startup Seed Grant, Technology Business Incubator(TBI), NSTEDB – DST | 6 months | Rs.75,000 | Ongoing |

TBI INCUBATEE

| S.No | Title of proposal | Agency | Duration | Amount Sanctioned | Status |
|------|--|---|----------|-------------------|-----------|
| 1 | Biogas Compression Setup - Prototype Development | NSTEDB – DST (TBI – Sathyabama Institute of Science and Technology) | 1 year | Rs.4,60,000 | Completed |

REVIEWER OF FUNDED PROJECT PROPOSALS

- King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

PATENTS

- “Portable Solar Welding Kit”, Product Patent, Application Number: 201721009049 A, Publication Date: 23-02-2018. Status: Published.
- “Geopolymer Filter Based Novel Muffler for Emission Control in Internal Combustion Engines”, Design Patent, Application Number: 333876-001, Cbr Number: 17846, Cbr Date: 04-10-2020. Status: Examination report has been generated.

PhD DEGREES PRODUCED

| S.No. | Ph.D Topic | University | Month/Year |
|-------|---|--|--------------------------------|
| 1 | Studies on concentrated Solar Energy Soldering (CSES) Technique with Lead-Free Soldering | Sathyabama Institute of Science and Technology | 11 th December 2020 |
| 2 | Experimental studies on formability behaviour of fire retardant AA5052 nano hybrid sandwich sheets | Sathyabama Institute of Science and Technology | August 2019 |
| 3 | Studies on wear and corrosion behavior of A356/Boron Carbide/Steel slag hybrid metal matrix composite | Sathyabama Institute of Science and Technology | March 2019 |
| 4 | Synergetic effect of nano fillers on the multi functional Epoxy/E-Glass fiber hybrid nano composite | Sathyabama Institute of Science and Technology | April 2018 |
| 5 | Experimental investigation on the effect of stitching on reinforcing fibres in epoxy composites | Vels University | April 2016 |

EXPERT PANEL MEMBER

Panel member in Rajasthan Public Service Commission

DOCTORAL COMMITTEE MEMBER

- Sathyabama Institute of Science and Technology, Chennai.
- Vels University, Chennai
- Dr.M.G.R Educational and Research Institute
- Bharath Institute of Higher Education and Research, Chennai
- Saveetha Engineering College, Chennai

REVIEWER IN JOURNALS

- Reviewer in Nuclear Engineering and Technology - Elsevier
- Reviewer in Materials Today: Proceedings - Elsevier
- Reviewer in Journal of The Institution of Engineers (India): Series C (IEIC) – Springer
- Reviewer in Tribology in Industry - Serbian Tribology Society, Faculty of Engineering, University of Kragujevac, Serbia.
- Reviewer in Current Materials Science - Bentham Science Publishers
- Reviewer in Plant Cell Biotechnology and Molecular Biology - International Knowledge Press. Society for Biology and Biotechnology.
- Reviewer in Suranaree Journal of Science and Technology - Suranaree University of Technology, Thailand. (Web of Science:Emerging Sources, Scopus)
- Reviewer in Materials Research Express - IOP Publishing
- Reviewer in Journal of Manufacturing Engineering(JME)- Society for Manufacturing Engineers(SME) – India)
- Member of the Editorial Board of i-manager's Journal on Mechanical Engineering (JME).
- Member of Editorial Board/Regional Editor of AES Journals.
- Member of the Editorial Board of International Journal of Composite Materials and Manufacturing (IJCMM).

ADVISORY COMMITTEE IN CONFERENCES

- Member in Advisory committee, in the National Virtual Conference on Recent Trends in Mechanical Engineering (NCRTME 22020) organized by Department of Mechanical Engineering, Sona College of Technology, Salem, Tamil Nadu, during, 10th July, 2020.
- Member in Advisory committee, in the National Conference on Advances in Mechanical Engineering organized by Department of Mechanical Engineering, Sri Balaji Chockalingam Engineering College, Arni, Tamil Nadu, during, 21st – 22nd March, 2012.

MEMBERSHIP IN PROFESSIONAL BODIES

- Life Member of Madras Metallurgical Society-(Receipt No. 384, dated. 02-02-2009)
- Life Member of Indian Welding Society- L00738
- Life Member of Indian LASER Association – LM802
- Associate Member of The Institute of Engineers (India) – AM092322-5
- Life member of The Indian Society for Technical Education – LM 33181.
- Life Member of Indian Society for Non Destructive Testing – LM 9073 CH.
- Life Member in Materials Research Society of India – LMB2247
- Life Member Solar Energy Society of India - LM/2142/2015
- Life Member in World Association for Scientific Research and Technical Innovation (WASRTI) – WASRTI – M18347.
- Life Member in International Association of Engineers (IAENG) – 125197.
- Life Member of the Society for Biomaterials and Artificial Organs (India) – LM735
- Life Member in Association for Development of Teaching, Education and Learning (ADTEL) – ADTEL – M18696.

AWARDS AND CERTIFICATE OF APPRECIATION

- Awarded Certificate of Appreciation for research publication in “High Impact Journals” for the period of June 2019 to June 2020, by Sathyabama Institute of Science and Technology.
- Awarded Certificate of Appreciation for research publication in “High Impact Journals” for the period of August 2015 to August 2016, by Sathyabama University.
- Received Best Faculty Award of Merit on 12th February 2015 from Sathyabama University.
- Received Best Faculty Award for the academic year 2011 – 2012 from during 25 year celebration at Sathyabama University.

INVITED TALKS AND SESSION CHAIR:

1. Chaired a session in the AICTE Sponsored 3rd Virtual International Conference on Materials, Manufacturing and Mechanical Engineering for Sustainable Developments (ICMSD2020) organized by the Department of Mechanical Engineering in association with Department of Civil Engineering of Sri Sai Ram Institute of Technology, held on 19th November, 2020 at Sri Sairam Institute of Technology, Chennai.
2. Delivered an keynote lecture in the “Webinar Series - 2 on Advances in Material Science and Fluid Dynamics Research” on the topic “Modes of Failure in Welded Ti6Al4V Alloy” organized by Department of Mechanical Engineering, Rohini College of Engineering & Technology, Kanyakumari District on 21st June 2020.
3. Delivered an invited Lecture in the “Society of Mechanical Engineering (SME) Technical Webinar Series 2020” on the topic “Insight on the Welding of Titanium alloy” organized by Department of Mechanical Engineering, CMR Institute of Technology, Bengaluru on 17th June 2020.
4. Chaired a session at the Second World Congress on Microscopy: Instrumentation, Techniques and Applications in Life Sciences and Materials Sciences (WCM 2018) 10-12 August 2018, Kottayam, Kerala, India.
5. Delivered an invited International Lecture on “Materials Characterization” at School of Manufacturing Engineering, Center of Excellence Geopolymer & Green Technology, School of Materials Engineering, Universiti Malaysia Perlis on 25th June 2018.
6. Chaired a technical session at the Second International Conference on Contemporary Issues in Science, Engineering & Management (ICCI-SEM-2018) during 23-24 June 2018, Malaysia.
7. Delivered an invited International Lecture on “Industry 4.0” at the Second International Conference on Contemporary Issues in Science, Engineering & Management (ICCI-SEM-2018) during 23-24 June 2018, Malaysia.
8. Chaired a technical session in VII International Conference on Researches in Science & Technology (ICRST - 2018), organized by World Association for Scientific Researchers in Science & Technology held at Nanyang Technological University, Nanyang Executive Centre, Singapore, 15-16 June 2018.
9. Delivered an invited talk on “Utilisation of Induction Furnace Slag” in the Two Days National Seminar on “Make in Steel for Make in India – Perspectives for Iron and Steel Industry”, organised by National Institute of Secondary Steel Technology supported by Ministry of Steel, Government of India, held at Kolkata on Feb 22-23, 2018 at CGCRI Auditorium, Kolkata.
10. Delivered an invited talk on “Utilisation of Steel Slag to make paver blocks” in the All India Induction Furnaces Association’s (AIIFA) 31st Conference on Strengthening Green Steel Production – Building Pillars of New India, organised in association with Ministry of Steel, Government of India, held at Hotel Le-Meridien, New Delhi, on 24th November, 2017.

11. Chaired a technical session in the Manufacturing Session in 3rd National Conference on Emerging Trends in Mechanical Engineering, organized by Department of Mechanical Engineering, Sathyabama University, during 6th & 7th April 2017.
12. Delivered an expert talk in “Bridging the gap between Industry and Institution”, during the Two Day All India Seminar on Make in India during 7th & 8th October 2016, held in Institution of Engineers (India), Tamil Nadu State Chapter, Chennai.
13. Delivered an invited talk on “Utilisation of Induction Furnace Slag in Manufacture of Paver Blocks and Steel Slag Foams” in the One Day National Conference on “Cost Optimization in Secondary Steel Sector” organized by All India Induction Furnaces Association (AIIFA) on 10th March, 2014 at Hotel Le-Meridien, New Delhi.
14. Delivered an invited talk on “E – Bikes” at the Conference on “Green Technologies for Automotive Sector” conducted by Confederation of Indian Industry (CII) on 8th August 2014 at Hotel ITC Grand Chola, Chennai.
15. Delivered an expert talk on “Challenges in Laser welding of Ti6Al4V Alloy”, during the All India Seminar on Recent Trends in Manufacturing during 12th & 13th February 2010, held in Institution of Engineers (India), Tamil Nadu State Chapter, Chennai.

BOOK CHAPTERS:

1. V.K. Bupesh Raja, Manoj Gupta, Joining of Metal Matrix Composites, Reference Module in Materials Science and Materials Engineering, Elsevier, 2021, ISBN 9780128035818, <https://doi.org/10.1016/B978-0-12-819724-0.00004-5>.
2. V. K. Bupesh Raja, Pushkaraj D Sonawane, K. Palanikumar, Eriki Ananda Kumar, “Scope for Bridging Industry-Academia Gap During Covid-19”. In “Innovative Teaching and Learning Process during COVID 19”, 2nd Edition, IOR International Press. ISBN 978-93-89631-66-1. ISBN (eBook) 978-93-89631-67-8. <https://doi.org/10.34256/iorip202>. (14th November 2020).
3. A.V.N.L.Sharma, P.Vijaya Kumar, V.K.Bupesh Raja, Pushkaraj D Sonawane, “Industry and Academia Strategic Partnership for Skill Improvement with Multidisciplinary Method in Engineering Education a Novel Approach Afterward Covid-19”. In “Innovative Teaching and Learning Process during COVID 19”, 2nd Edition, IOR International Press. ISBN 978-93-89631-66-1. ISBN (eBook) 978-93-89631-67-8. <https://doi.org/10.34256/iorip202>. (14th November 2020).
4. Viswanadhapalli B., **Bupesh Raja V.K.** (2020) Application of Magnesium Alloys in Automotive Industry-A Review. In: Hemanth D., Kumar V., Malathi S., Castillo O., Patrut B. (eds) Emerging Trends in Computing and Expert Technology. COMET 2019. Lecture Notes on Data Engineering and Communications Technologies, vol 35. Springer, Cham. https://doi.org/10.1007/978-3-030-32150-5_50. Print ISBN 978-3-030-32149-9, Online ISBN 978-3-030-32150-5.
5. Nilam P. Jadhav, **V. K. Bupesh Raja**, Suhas P. Deshmukh, and Mandar M. Lele. (2020) Investigation and Experimental Evaluation of Vapor Compression Refrigeration System by Means of Alternative Refrigerants. In: Hemanth D., Kumar V., Malathi S., Castillo O., Patrut B. (eds) Emerging Trends in Computing and Expert Technology. COMET 2019. Lecture Notes on Data Engineering and Communications Technologies, vol 35. Springer, Cham. https://doi.org/10.1007/978-3-030-32150-5_50. Print ISBN 978-3-030-32149-9, Online ISBN 978-3-030-32150-5.
6. K. S. Sridhar Raja, **V. K. Bupesh Raja**. (2020) Corrosion Studies on Induction Furnace Steel Slag Reinforced Aluminium A356 Composite. In: Hemanth D., Kumar V., Malathi S., Castillo O., Patrut B. (eds) Emerging Trends in Computing and Expert Technology. COMET 2019. Lecture Notes on Data Engineering and Communications Technologies, vol 35. Springer, Cham. https://doi.org/10.1007/978-3-030-32150-5_50. Print ISBN 978-3-030-32149-9, Online ISBN 978-3-030-32150-5.

7. K. Logesh, **V. K. Bupesh Raja**, M. Venkatasudhahar and Hitesh Kumar Rana. (2019) Experimental Investigation on Tensile and Fracture Behaviour of Glass Fibre-Reinforced Nanoclay/Mg–Al LDH-Based Fibre Metal Laminates. In: Chandrasekhar, U., Yang, Lung-Jieh, Gowthaman, S. (Eds.), Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018), Lecture Notes in Mechanical Engineering, vol 2, edition no. 1, Springer Nature Singapore Pte Ltd. <https://doi.org/10.1007/978-981-13-2718-6>. Hardcover ISBN 978-981-13-2717-9, Series ISSN 2195-4356, eBook ISBN 978-981-13-2718-6.

INTERNATIONAL JOURNAL PUBLICATIONS:

1. Mathew Alphonse, **V.K.Bupesh Raja***, Manoj Gupta, and K. Logesh, Optimization of coated friction drilling tool for a FML composite, Materials and Manufacturing Processes, 2020. Taylor and Francis. Pp. 1-10, 2020. <https://doi.org/10.1080/10426914.2020.1832684>. Published online on 19th October 2020. (WoS, IF: 3.046)
2. Mathew Alphonse, **V.K.Bupesh Raja***, K.Palanikumar, Effect of Friction Drilling on Metallurgical and Mechanical Properties of Composite Materials: A review, Current Material Science, Bentham Science. Accepted on 15th October 2020. (Scopus).
3. Mathew Alphonse, **V.K.Bupesh Raja***, Manoj Gupta, Investigation on Tribological Behavior during Friction Drilling Process - A Review, Tribology in Industry, Volume 42, No. 2, Pp. 200-2013, 15 June 2020. DOI: 10.24874/ti.655.02.19.03. University of Kragujevac, Serbia. <http://www.tribology.rs/inpress.html> (Scopus).
4. Pushkaraj D Sonawane, **V.K.Bupesh Raja***, Manoj Gupta, Microstructure, Mechanical, and Electrical Properties and Corrosion Analysis of Lead-Free Solder CSI Joints on Cu Substrate Using Novel Concentrated Solar Energy Soldering (CSES) Method, Advances in Materials Science Engineering, Volume: 2020, Article ID: 7612186. <https://doi.org/10.1155/2020/7612186>. <https://www.hindawi.com/journals/amse/2020/7612186/>. 26th March 2020. (WoS, IF: 1.399).
5. Mathew Alphonse, **V.K.Bupesh Raja***, Manoj Gupta, Optimization of plasma nitrided, liquid nitrided & PVD TiN coated H13-D2 friction drilling tool on AZ31B magnesium alloy, Materials Today: Proceedings, Elsevier. <https://doi.org/10.1016/j.matpr.2020.03.791>. 30th April 2020. (Scopus)
6. **V.K.Bupesh Raja***, K.Palanikumar, Arja Sri Sai, Bandi Vedaraj Goud, Pitting corrosion studies on Ti6Al4V alloy weldments in marine environment, Indian Journal of Geo Marine Sciences (IJMS), Vol.48 (08), pp. 1179-1182. August 2019. <http://nopr.niscair.res.in/handle/123456789/49716> (WoS, IF:0.301)
7. Logesh.K, **V.K.Bupesh Raja***, Effect of forming parameters on mechanical properties of epoxy-based fiber metal laminates, Indian Journal of Geo Marine Sciences (IJMS), Vol.48 (08), pp. 1198-1204. August 2019. <http://nopr.niscair.res.in/handle/123456789/49713> (WoS, IF:0.301)
8. J.R.Deepak*, **V.K.Bupesh Raja**, Gobi Saravanan Kaliaraj, Mechanical and Corrosion Behavior of Cu, Cr, Ni and Zn Electroplating on Corten A588 Steel for Scope for Betterment in Ambient Construction Applications, Results in Physics, Volume 14, September 2019, 102437. <https://doi.org/10.1016/j.rinp.2019.102437> (WoS, IF- 3.042)
9. K.S. Sridhar Raja, **V.K. Bupesh Raja***, M. Gupta, Using anthropogenic waste (steel slag) to enhance mechanical and wear properties of a commercial Aluminium alloy A356, Archives of Metallurgy and Materials, Vol. 64, Issue.1, 2019, pp-279-284. De Gruyter Open Company, Poland. DOI: 10.24425/amm.2019.126249. (WoS, IF: 0.697)
10. R.Padmapriya*, **V.K.Bupesh Raja**, V.Ganesh Kumar, J.Baalamurugan, Effect on properties of concrete in partial replacement of fine aggregate by steel slag and cement by metakaolin, Rasayan J. Chemistry, 12 (4), 1744 – 1751, 2019. <http://dx.doi.org/10.31788/RJC.2019.1245211> (Scopus).
11. **V. K. Bupesh Raja***, K. Logesh, Eriki Ananda Kumar, An Evaluation of Mechanical and Formability Parameters of Aluminium Based Polypropylene Sandwich Materials, International Journal of Mechanical and Production Engineering Research and Development

12. Baalamurugan J, V.Ganesh Kumar, V.Chandrasekaran, S.Balasundar, B.Venkatraman, R.Padmapriya, **V.K.Bupesh Raja**, Utilization of induction furnace steel slag in concrete as coarse aggregate for gamma radiation shielding, Journal of Hazardous Materials, Vol. 369, pp. 561-568. Feb 2019, <https://doi.org/10.1016/j.jhazmat.2019.02.064> (WoS. IF:9.038)
13. Pushkaraj D. Sonawane, **V.K.Bupesh Raja**, "Advances in Lead-Free Solders", International Journal of Mechanical Engineering and Technology (IJMET) Volume 10, Issue 02, February 2019, pp. 520 – 526. ISSN Print: 0976-6340 and ISSN Online: 0976-6359. (Scopus).
14. K.Logesh, **V.K.Bupesh Raja**, Evaluation of mechanical properties of Mg-Al layered double hydroxide as a filler in epoxy-based FML composites, The International Journal of Advanced Manufacturing Technology, Pages 1-19, 17 February 2018. <https://doi.org/10.1007/s00170-018-1692-8>. (WoS, IF: 2.496).
15. Pushkaraj D. Sonawane, **V.K.Bupesh Raja**, "Concentrated solar energy in materials processing", International Journal of Ambient Energy, Volume 39, Issue 8, pp1-7, 2018. Published online: 20 Jul 2018. <https://doi.org/10.1080/01430750.2018.1493398>. (Scopus).
16. Pushkaraj D. Sonawane, **V.K.Bupesh Raja**, "An overview of concentrated solar Energy and its applications" International Journal of Ambient Energy, Vol. 39. Issue 8, pp 898-903. 2017. Published online: 07 Jul 2017. <http://dx.doi.org/10.1080/01430750.2017.1345009>. (Scopus).
17. J.Baalamurugan, V.Ganesh Kumar, K. Govindaraju, B. S. Naveen Prasad, **V.K.Bupesh Raja** and R.Padmapriya, 'Slag based nanomaterial in the removal of hexavalent chromium', International Journal of Nanoscience, Vol. 17, No. 01n02, 1760013, pp.1 – 6, 2018. <https://doi.org/10.1142/S0219581X17600134> (Scopus).
18. K.Logesh, **V.K.Bupesh Raja**, Vipin H. Nair, Sreerag, K.M., Vishvesvaran, K.M., M.Balaji, Review on manufacturing of fibre metal laminates and its characterization techniques, International Journal of Mechanical Engineering and Technology (IJMET), Volume 8, Issue 10, Pages 561-578, October 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
19. K.Logesh, **V.K.Bupesh Raja**, Rubesh khannaa Sivakumar, R.Krithick Vignesh and Nishant Kumar Nath, Experimental investigation on formability analysis, mechanical and corrosion behaviour of AA1100 sheet metal, International Journal of Mechanical Engineering and Technology (IJMET), Volume 8, Issue 8, Pages 900-909, 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
20. K.Logesh, **V.K.Bupesh Raja**, Experimental studies on impact strength of AA5052-MWCNT/LDH reinforced hybrid fibre metal laminate, International Journal of Mechanical Engineering and Technology(IJMET), Volume 8, Issue 7, Pages 784-794, July 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
21. K.Logesh, **V.K.Bupesh Raja**, B.Dinesh, M.Rajesh Kumar, S.Bharath, Experimental investigation and finite element simulation of tensile behaviour of AA5052/GF/AA5052 Fibre Metal Laminate (FML), International Journal of Mechanical Engineering and Technology(IJMET), Volume 8, Issue 8, Pages 324-333, 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
22. K.Logesh, **V.K.Bupesh Raja**, J.Veerendra Rayudu, N.Sai Ganesh, R.Aliazmath Shaik, A review on sheet metal forming and its latest development of sandwich materials, International Journal of Mechanical Engineering and Technology(IJMET), Volume 8, Issue 8, 2017, Pages 369-385. ISSN Print: 0976-6340 and ISSN Online: 0976-6359
23. K.Logesh, **V.K.Bupesh Raja**, R.Arun Raj, R.Rameshkumar, Evaluation of fire retardant property and microscopic characteristics of LDH reinforced composite - An overview, International Journal of Pharmacy & Technology, Vol.9, Issue 1, pp. 28539-28550, April 2017. ISSN: 0975-766X.
24. K.Logesh, **V.K.Bupesh Raja**, R.Arun Raj, P.B.Senthilkumar, A Review of Recent Trends on Reinforcement of Fibre Metal Laminates with Nanoclay and Multi Walled Carbon Nanotubes, International Journal of ChemTech Research, Vol.10 No.3, pp 395-399, 2017. ISSN: 0974-4290, ISSN(Online):2455-9555.
25. K.Logesh, **V.K.Bupesh Raja**, B.GowthamaRajan, V.Ramani, Experimental Studies on Surface Morphology of Nano clay and Mg-Al Layered Double Hydroxide Using Atomic Force Microscopy and EDAX Analysis, International Journal of ChemTech Research, Vol.10 No.3, pp 385-394, 2017. ISSN: 0974-4290, ISSN(Online):2455-9555.

26. K.Logesh, **V.K.Bupesh Raja**, Formability analysis for enhancing forming parameters in AA8011/PP/AA1100 sandwich materials, International Journal of Advanced Manufacturing Technology, Vol. 93, Issue 1-4, pp. 113-120, October 2017. <https://doi.org/10.1007/s00170-015-7832-5>. (WoS, IF: 2.496)
27. K.Logesh, **V.K.Bupesh Raja**, D. Gokula Krishnan, Md Azeemudeen M, A. Nikhil Andrew and K.S. Hariprasath, Experimental investigation and analysis of tensile and forming behaviour of cold rolled sheet metal, International Journal of Mechanical Engineering and Technology (IJMET), Vol. 8, Issue 11, Pages 252-264, November 2017. ISSN Print: 0976-6340 and ISSN Online: 0976-6359.
28. K. Logesh, **V.K. Bupesh Raja**, D. Surryaprakash, R. Desigavinayagam, Formability of heat treated AA19000, AA5052 and simulation using ABAQUS/CAE, International Journal of Vehicle Structures and Systems, Vol.9, Issue 4, pp.233-237, 2017. <http://dx.doi.org/10.4273/ijvss.9.4.07>. (Scopus).
29. Gopal.P, **Bupesh Raja.V.K**, Chandrasekaran.M., Dhanasekaran.C, Wear study on hybrid natural fiber epoxy composite materials used as automotive body shell, ARPN Journal of Engineering and Applied Sciences, Vol. 12, No. 8, April 2017. ISSN 1819-6608. (Scopus).
30. Gopal.P, **Bupesh Raja.V.K**, Chandrasekaran.M, Dhanasekaran.C, Woven Hybrid Composites - Tensile and Flexural Properties of Jute Mat Fibres with Epoxy Composites, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/183/1/012001> (Scopus).
31. Suganthini Rekha, **V.K.Bupesh Raja**, Review on Microstructure Analysis of Metals and Alloys Using Image Analysis Techniques, IOP Conf. Series: Materials Science and Engineering, 197, 2017, 012010. doi:10.1088/1757-899X/197/1/012010. (Scopus).
32. S.Ramasubramanian, **V.K.Bupesh Raja**, Review on Enhanced Heat Transfer Techniques using Modern Technologies for 4S Air Cooled Engines, IOP Conf. Series: Materials Science and Engineering, 197, 2017, 012019. doi:10.1088/1757-899X/197/1/012019. (Scopus)
33. Sridhar Raja.K.S, **Bupesh Raja.V.K**, AaroRinold.F, Abhilash.L.S, Effect of Steel slag on Wear Characterization of Aluminium Composite Using Taguchi Technique, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/197/1/012053>. (Scopus)
34. Alphonse.M, **Bupesh Raja.V.K**, Logesh.K, MuruguNachippan.N, Evolution and Recent Trends in Friction Drilling Technique and the Application of Thermography, IOP Conference Series: Materials Science and Engineering, 2017. <https://doi.org/10.1088/1757-899X/197/1/012058>. (Scopus)
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98. M.Sivashanmugam, N.Manoharan, **V.K.Bupesh Raja**, K.Palanikumar, Recent Development in Applications of Aluminium Alloys in Aerospace Industry, In the Proceedings of International Conference and Exhibition on Emerging Challenges In Design and Manufacturing Technologies - 2007 (ECHDEM-2007) held at Sathyabama University, Chennai, November 28-30, 2007, pp 321 - 324.
99. **V.K.Bupesh Raja**, K.Palani Kumar, N.Manoharan, Nitish Kumar, Milind, KaushikBaruah, Simulation of a Laser Guided AGV in a Virtual Factory, In the Proceedings of Global Conference on Production and Industrial Engineering (CPIE-2007) held at Dr.B.R.Ambedkar National Institute of Technology, Jalandhar, Session: 5B, In CD, March 22-24, 2007. ISBN: 81-903047-4-7
100. **V.K.Bupesh Raja**, K.Palani Kumar, N.Manoharan, K.Gnanavel, Nitish Kumar, Visualization and Simulation of Stranded Cable Behaviour, In the Proceedings of Global Conference on Production and Industrial Engineering (CPIE-2007) held at Dr.B.R.Ambedkar National Institute of Technology, Jalandhar, Session: 5B, In CD, March 22-24, 2007. ISBN: 81-903047-4-7
101. **V.K.Bupesh Raja**, K.Palani Kumar, Safety Analysis in a Virtual Foundry Environment, In the Proceedings of International Conference on Advances in Mechanical Engineering (ICAME-2006) held at SRM University, Chennai, Module 3, Pp.255-257, December 14-16, 2006, pp 255 - 257.
102. **V.K.Bupesh Raja**, K.Palani Kumar, N.Manoharan, Vrml Visualization of Nano Robots, In the Proceedings of International Conference on Advances in Mechanical Engineering (AME-2006) held at Baba Banda Singh Bahadur Engineering College, Punjab, Module 3, pp.33-35, December 1-3, 2006.

NATIONAL CONFERENCE:

1. Eriki Ananda Kumar, **V.K.Bupesh Raja**, S.Jaya Kishore, Jawaher Said Al Rashdi, Design and Fabrication of Arduino Based Automated Smart Window cleaner, 2nd Virtual National Conference on 'Advancement in Material Processing Technology (AMPT-2020)' organized by the Metallurgy and Materials Engineering Department, NIT Jamshedpur. 31st October 2020.
2. **V.K. Bupesh Raja**, V.Ramesh Kumar, Ghada Bassioni, Antony V Samrot, K.Palanikumar, T.Stalin Dhas, V.Ganesh Kumar, Deepak Sairam, Emission Studies on Eichhornia Crassipes/Animal Fat Hybrid Biodiesel, Virtual Conference on Marine Natural Products (VMNP-2020), organized by Centre for Ocean Research, MoES - Earth Science & Technology Cell (Marine Biotechnological Studies), Sathyabama Institute of Science and Technology, during 17th - 21st August, 2020.
3. Suganthini Rekha, **V.K.Bupesh Raja**, Review of Microstructure Analysis of Cast Iron Using Image Analysis, 2nd National Conference on Innovative & Emerging Trends in Engineering and Technology (NCIETET'15), organized by Panimalar Institute of Technology, held on 14th May, 2015.
4. S.Sivasaravanan, **V.K.Bupesh Raja**, "Mechanical Characterization of Epoxy/Glass Fiber/Nano Clay Nano Composites", National Conference on Modeling, Simulation and Optimization (NCMSO 2013), organized by Vels University, Chennai, 2013.
5. **V.K.Bupesh Raja**, R.Sajitha, V.Bhuvaneswari, Fracture Topography Investigation of Cross Stitched and Un-Stitched Fibre Glass-Epoxy laminates, National Conference on Evolving Techniques in Mechanical Engineering (ETME-2012), held at Sri Venkateswara College of Engineering and Technology, Thiruvallur District, August 23 - 24, 2012.
6. **V.K.Bupesh Raja**, C.S.Jayakumar, Study of Hardness of Titanium/Steel Joints Fabricated Using GTAW and GMAW Processes, National Conference on Research Trends in Mechanical Engineering (NCRTME-2012), held at Vels University, Chennai, PP. 18 – 21, April 11, 2012.
7. **V.K.Bupesh Raja**, P.M.Thomas, V.Vishnu, Rework Reduction in Submerged Arc Welding of Automobile Wheels, National Conference on Research Trends in Mechanical Engineering (NCRTME-2012), held at Vels University, Chennai, PP. 18 – 21, April 11, 2012.

8. **V.K.Bupesh Raja**, K.Palani Kumar, K.Elangovan, Influence of Welding Processes on the Grain Growth and their Orientation in Ti6Al4V Alloy Weldments, National Conference on Recent Advances in Materials and Technology (NCRAMAT-2012), held at Sathyabama University, Chennai, PP. 67, January 6 - 7, 2012.
9. **V.K.Bupesh Raja**, K.Palani Kumar, K.Elangovan, Review on Applications of Titanium/Steel Weldments, National Conference On Recent Advances in Materials and Technology (NCRAMAT-2012), held at Sathyabama University, Chennai, PP. 101, January 6 - 7, 2012.
10. S.Sivasaravanan, P.Suresh Mohan Kumar, **V.K.Bupesh Raja**, V.Selvakumar, Review on Manufacturing Techniques and Mechanical Properties of Glass Fiber Reinforced Epoxy/Clay Nano Composites, National Conference On Recent Trends in Mechanical Engineering (NCETME-2010), held at Sathyabama University, Chennai, PP. 18 – 21, August 9 - 10, 2010.
11. **V.K.Bupesh Raja**, K.Palanikumar, Harnessing energy from pollutants – using microbial fuel, National Conference On Trends in Renewable Energy Sources, Applications and Climate Change (TRESAC-2010), held at Sathyabama University, Chennai, in association with Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, July 23 – 25, 2010.
12. **V.K.Bupesh Raja**, K.Palani Kumar, N.Manoharan, Corrosion as a Weld Quality Indicator in Ti6Al4V Alloy Weldments, National Conference on Recent Innovations in Production Engineering (RIPE-2010), held at MIT Campus - Anna University, Chennai, pp. A45 – A48, April 16 – 17, 2010.
13. **V.K.Bupesh Raja**, K.Palani Kumar, Study on Friction Stir Welding of Aluminium Metal Matrix Composites, National Conference On Recent Trends in Manufacturing and Industrial Engineering (NCRTMIE-2010), held at Sathyabama University, Chennai, PP. 145 – 148, April 9 – 10, 2010.
14. **V.K.Bupesh Raja**, K.Palani Kumar, Design of Dual Clamping Device in Deburring Machine, National Conference On Recent Trends in Manufacturing and Industrial Engineering (NCRTMIE-2010), held at Sathyabama University, Chennai, PP. 251 – 255, April 9 – 10, 2010.
15. **V.K.Bupesh Raja**, K.Palanikumar, N.Manoharan, Non-Classical Mode of Failure in Laser Beam Welded Ti6Al4V Alloy Plates, National Seminar On Recent Trends in Manufacturing, conducted by The Institution of Engineers (India), Tamil Nadu Centre, Chennai, pp 8 – 11, February 12 – 13, 2010.
16. **V.K.Bupesh Raja**, K.Palani Kumar, K.Elangovan, N.Manoharan, Influence of GTAW and LBW Processes on the formation of Alpha Prime Microstructure in Ti6Al4V Alloy Weldments, In the National Conference on Recent Trends In Manufacturing Technology (RTMT-09), held at Anna University, Chennai, March 6-7, 2009.
17. **V.K.Bupesh Raja**, K.Palanikumar, K.Elangovan, N.Manoharan, The Challenges In Welding of Ti6Al4V Alloy – A Case Study, In the National Conference On Recent Advancement and Development In Materials Science (RAADIMS-09), held at **MepcoSchlenk Engineering College, Sivakasi, Tamil Nadu, February 20-21, 2009.**
18. **V.K.Bupesh Raja**, K.Palani Kumar, K.Elangovan, Jose Antony, Justin Thomas Varghese, A Comprehensive Review on the Applications of Ti6Al4V Alloy, In the National Conference On Recent Advancement and Development In Materials Science (RAADIMS-09), held at MepcoSchlenk Engineering College, Sivakasi, Tamil Nadu, February 20-21, 2009.
19. **V.K.Bupesh Raja**, K.Palanikumar, K.Elangovan, S.Rattan Anuooop, P.S.Jasper, A Review on ETP Copper Welding Processes, In the National Conference On Recent Advancement and Development In Materials Science (RAADIMS-09), held at MepcoSchlenk Engineering College, Sivakasi, Tamil Nadu, February 20-21, 2009.
20. **V.K.Bupesh Raja**, K.Palani Kumar, Influence of CCGTAW and LBW on the Grain Size and Microhardness of Ti6Al4V Alloy, In the National Conference On Advanced Materials and Characterization (AMC-2008), held at VIT University, Vellore, Tamil Nadu, July 23-25, 2008.
21. **V.K.Bupesh Raja**, K.Palani Kumar, N.Manoharan, S.Vijayakumar, Nitish Kumar, Error Analysis of a Welding Robot, In the National Conference On Modeling and Simulation Techniques In Manufacturing Engineering (MSME-2007), held at Panimalar Engineering College, Chennai, March 16, 2007, pp 146 – 148..

22. **V.K.Bupesh Raja**, K.Rajesh, Virtual Prototyping by 3d Digitizing Technique – A Case Study, In the National Conference on Recent Trends In Mechatronics, Nanotechnology And Robotics (RTMNR-2006), held at National Institute Of Technology, Rourkela, April 15-16, 2006.
23. **V.K.Bupesh Raja**, K.Palanikumar, Winkleson Williamraj, Design of Metal Pouring Robot in Foundry Application Using Virtual Manufacturing Technique, In the National Conference on the Impact of Information Technology on Manufacturing (NCIITM-2006), held at Kumaraguru College of Technology, Coimbatore, March 24-25, 2006
24. Vemuri Lakshminarayana, **V.K.Bupesh Raja**, Concurrent Engineering - A Virtual Manufacturing Approach, In proceedings of national conference on recent advances in mechanical engineering (RAMT06), held at Velammal Engineering College, Chennai, February 03, 2006, pp 125 - 127.
25. Vemuri Lakshminarayana, **V.K.Bupesh Raja**, Detection of Errors in Assembly Systems Using Virtual Factories, In the national Conference on emerging trends in Thermal Engineering, competitive manufacturing and management (TECM-2006), held at St. Joseph's College of Engineering, Chennai, February 2, 2006.
26. Vemuri Lakshminarayana, **V.K.Bupesh Raja**, Generation of Dynamic VrmL Models and Environments – Using CAD Solutions, In the National Conference on Recent Advances in Product Design, Materials Technology and Manufacturing Systems (RAPMATS-06), held at Department of Production Technology, MIT Campus, Anna University, Chennai-44, January 6-7, 2006, pp 15 – 18.
27. Vemuri Lakshminarayana, **V.K.Bupesh Raja**, Safety Analysis In A Virtual Factory Environment, In the Proceedings Of National Conference On Innovations In Mechanical Engineering(IMPULSE-05) held at RMK Engineering College, Tamil Nadu, Pp.55-57, September 17 -18, 2005.
28. **V.K.Bupesh Raja**, Vemuri Lakshminarayana, Engineering Colleges as Solar Power Charging Centers, In the National Conference on Renewable Energy-Energy of the Future, at Sriram Engineering College, August 17, 2005.
29. **V.K.Bupesh Raja**, Vemuri Lakshminarayana, Application of Robotic Systems in Virtual Manufacturing System, In Proceedings of the National Conference on Emerging Trends in Engineering and Technology, held at Dr.M.G.R.Educational And Research Institute, Chennai, May 1-3, 2004
30. **V.K.Bupesh Raja**, Vemuri Lakshminarayana, Concepts of Robotics, In the National Level Technical Conference held at Sathyabama Engineering College, Chennai, August 18, 2000.

CONFERENCES/WORKSHOPS/TRAINING CONDUCTED

- Six Days Workshop on “**Recent Trends in Automotive Sector**” conducted by Department of Automobile Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 7th to 12th December 2020.
- **Webinar on "This Geopolymer Cement Is Good, Let Us Make It Better"**, Jointly Organized by Col. Dr. Jeppiaar Research Park, Centre for Ocean Research & Department of Civil Engineering, School of Building and Environment, Sathyabama Institute of Science and Technology, Chennai-119, Tamil Nadu, India on 30th July 2020.
- Six Days Faculty Development Program – **Automobile FDP Series** on “**Recent Trends in Automotive New Product Development**” conducted by Department of Automobile Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 13th to 18th July 2020.
- Webinar on “**Quality and Six Sigma**” in “ MECH 4.0 Technical Webinar Series” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 6th June 2020.
- Webinar on “**Recent Advancements in Latent Heat Based Thermal Energy Storage System**” in “ MECH 4.0 Technical Webinar Series” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 5th June 2020.
- Webinar on “**Additive Manufacturing – 3D Printing**” in “ MECH 4.0 Technical Webinar Series” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 4th June 2020.

- Webinar on “**Prospects After Bachelors of Engineering**” in “ MECH 4.0 Technical Webinar Series: Alumni Lecture” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 2nd June 2020.
- Webinar on “**Fundamentals of CFD**” in “ MECH 4.0 Technical Webinar Series” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 1st and 2nd June 2020.
- Webinar on “**Basics of IPR and Patents & Setting – up an Innovative Business**” in “ MECH 4.0 Technical Webinar Series” organized by Department of Automobile Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 22nd May 2020.
- Webinar on “**Transformation expected in Mechanical Industries post COVID - 19**” in “ MECH 4.0 Technical Webinar Series” organized by Department of Automobile Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 22nd May 2020.
- Webinar on “**Fracture Mechanics: an Overview of Current Mechanics**” in “ MECH 4.0 Technical Webinar Series” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 14th May 2020.
- Webinar on “**CFD and its Applications in Power Plant Industry**” in “ MECH 4.0 Technical Webinar Series” organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 13th May 2020.
- **DST – SERB sponsored two days National symposium on ‘Automotive Pollution and Emission Control – (NSAPEC 2020)’**, conducted by Department of Automobile Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, on 5th and 6th March 2020. SERB Sanction No: SSY/2020/000021 dated 11th February 2020.
- **One Day National Workshop on ‘E-Vehicles: A Green Technology (NWEVGT-2K18)’**, conducted by Department of Automobile Engineering, School of Mechanical Engineering, Sathyabama University, Chennai, 20th March 2018.
- **One Day National Workshop on ‘Automotive Pollution and Emission Control (NWAPEC 2016)’**, Sponsored by Tamil Nadu State Council for Science and Technology (TNSCST), conducted by Department of Automobile Engineering, Faculty of Mechanical Engineering, Sathyabama University, Chennai, 7th April, 2016.
- **One Day National Workshop on ‘IC Engines and Alternate Fuels’**, In association with Society of Automotive Engineers (India) SAE, conducted by Department of Automobile Engineering, Faculty of Mechanical Engineering, Sathyabama University, Chennai, 8th February, 2013.
- **Two Days National Conference on ‘Challenges in Automotive Technology’**, Sponsored by Tamil Nadu State Council for Science and Technology (TNSCST), conducted by Department of Automobile Engineering, Sathyabama University, Chennai, 6th and 7th March 2012.
- **One Day National Workshop on ‘Trends in Material Joining Technologies (TMJT 2011)’**, conducted by Department of Mechanical and Production Engineering, Sathyabama University, Chennai, 7th September, 2011.
- In the Organizing committee of **International Conference on Frontiers in Automobile and Mechanical Engineering (FAME-2016)**, November 25-27, 2010.
- In the Organizing committee of **International Conference on Frontiers in Automobile and Mechanical Engineering (FAME-2010)**, November 25-27, 2010.
- In the Organizing committee of **International Conference and Exhibition on Emerging Challenges in Design and Manufacturing Technologies - 2007 (ECHDEM-2007)**, November 28-30, 2007.
- “**Advanced CNC training course**” for Delphi-Tvs employees and engineers during May 2003 and during June 2004 at Sriram Engineering College, Chennai.

WORKSHOPS/TRAINING ATTENDED

- **Online Short Term Training Programme (STTP) On “Digital Twin Technology for Industrial Automation Process (Phase III)”** Sponsored by AICTE, organized by Department of Mechanical Engineering, School of Mechanical engineering, Sathyabama Institute of Science and Technology, Chennai, during 7th - 12th December 2020.
- **Live Workshop on “Copyrights in India”**, organized by the Frontiers CPIP and Turnip Innovations on 20th November 2020.

- **Online Faculty Development Program On “3D Printing and Additive Manufacturing for Industrial and Bio Medical Application”** Sponsored by AICTE under ATAL Program, organized by Centre of Excellence for Collaborative Product Design And Development (CPDD Centre), Department of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, during 24th - 28th August 2020.
- **Six week Online Certificate course on "Innovation, Entrepreneurship & Employability",** jointly hosted by Col. Dr.Jeppiaar Research Park, Sathyabama Technology Business Incubator (supported by NSTEDB, DST) and School of Management Studies, Sathyabama Institute of Science and Technology, Chennai during 22nd July – 28th August 2020.
- **Live Webinar on “Disruptive Technologies for Future Transportation”,** organized by the Department of Automobile Engineering, Sri Venkateswara College of Engineering, Sriperumbudur on 25th July 2020.
- **Webinar on “Patent Prosecution Challenges and Strategies in India”,** organized by the Frontiers Legal and Turnip Innovations on 25th July 2020.
- **Six Days Online FDP on “Welding for Additive Manufacturing”,** organized by Indian Welding Society (IWS) with Department of Mechanical Engineering, Coimbatore Institute of Engineering and Technology, Coimbatore during 10th June to 15th June 2020.
- **Online Workshop on “Corrosion and its Control”,** organized by Department of Mechanical Engineering, Dr.D.Y.Patil Institute of Engineering, Management & Research, akurdi, Pune in association with B.S.Abdur Rahman Crescent Institute of Science & Technology, Vandalur, Chennai during 2nd June to 4th June 2020.
- **International Webinar on “Project Proposal Writing”** conducted by Department of Mechanical Engineering, SRM Institute of Science and Technology, held on 29th May 2020,.
- **Online AICTE Recognized Faculty Development Programme on “Recent Advances in Material Characterization”** from 23rd to 28th May 2020 (One Week) Organized by Mechanical Engineering Department, NITTTR, Chandigarh.
- **Online Sessions conducted by MHRD’s Innovation Cell (IIC-MIC) in the areas of “Innovation, IPR, Entrepreneurship, and Start-ups”** from 28th April to 22nd May 2020.
- **Webinar on “Coping with Corona virus Challenge”,** held on 11th May 2020, organized by Department of Civil Engineering, Sathyabama Institute of Science and Technology.
- **Webinar “Responding as Educators to the Rapidly Changing Learning Environment”** conducted by Sathyabama Institute of Science and Technology on 4th May 2020.
- **Industry Academia Conclave (IAC-2019)** as part of “India International Science Festival – 2019 (IISF – 2019), held at Biswa Bangla Convention Centre, Kolkata during November 5 to 8, 2019.
- **One Day National Level Workshop on ‘Sensitization on IPR for Professional Innovators in Electronics, Information and Technology (ICT)’**, sponsored by Ministry of Electronics and Information Technology, organised by School of Mechanical Engineering & School of Management Studies, Sathyabama Institute of Science and Technology, Chennai, 22nd July 2019.
- **National Level Seminar on ‘Course Corrections in Curriculum Design and Development for Industry 4.0’,** in association with National Assessment and Accreditation Council (NAAC), organised by Internal Quality Assurance Cell (IQAC), Sathyabama Institute of Science and Technology, Chennai, 7th & 8th February 2019.
- **National Level 2 – Day Workshop on ‘Contemporary Issues on Advanced Materials for Noise and Vibration Applications’,** sponsored by DST-SERB, organised by School of Mechanical and Building Sciences (SMBS), VIT, Chennai, 1st & 2nd February 2019.
- **Certificate Course on “Patent Drafting”** conducted by IPR Cell Sathyabama University Technology Business Incubator , Sathyabama University, Chennai during 21, 22 & 28th July, 05, 12 & 19th August, (6 Days), 2017.
- **National Seminar on ‘Quality Higher Education - 2017’,** organised by the Internal Quality Assurance Cell, Sathyabama University, Chennai, 28th and 29th April 2017.
- **National Level Seminar on ‘Recent Developments in Under Water Welding (RDUWW’17),** organised by Department of Mechanical Engineering, Academy of Maritime Education and Training (AMET), Chennai, 16th March 2017.

- Foundation Course in **“Sky – Yoga for Holistic Health”** at Sathyabama University in association with the world community service centre during 27th January to 2nd February, 2016
- Faculty Development Programme on **“Financial Literacy”**, organized by Department of Management Studies, Sathyabama University, Chennai, on 7th March 2013.
- **“Advance Design Course in Pro/Engineer”**, at Diagonal CADD Centre, Chennai, January to February, 2013.
- One Day National seminar on **“Computational Fluid Dynamics”**, conducted by Department of Mechanical Engineering, Vels university, Chennai, September 22, 2012.
- Two Day National Level Seminar cum workshop on **“Emerging Trends in Alternate Fuels and Automotive Electronics”**, conducted by Karpaga Vinayaga College of Engineering and Technology, Chennai, September 7 – 8, 2012.
- Two Day National Workshop on **“Welding of Steels (WEST’12)”**, conducted by Annamalai University, October 12th and 13th, 2012.
- Two Day National Workshop on **“Welding Research Today: Challenges & Opportunities (WRT – 2012)”**, conducted by the Indian Institute of Welding (IIW), Chennai Branch, in association with Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Madras (IIT-M), Chennai, during 23rd and 24th November 2012.
- One Day national level workshop on **“R&D Proposals – Approach and Preparation (RDPAP – 2012)”**, organized by Department of Physics, Sathyabama University, Chennai, on 15th December, 2012.
- Two Day Workshop on **“Recent Developments in Automotives”**, conducted by Dr.M.G.R.Educational and Research Institute, University, Chennai, October 20th and 21st, 2011.
- One Day National Workshop on **‘New Materials and Applications (NMA 2010)’**, conducted by Department of Mechanical and Production Engineering, Sathyabama University, Chennai, September 29th, 2010.
- One Day National Workshop on **‘Synthesis and Characterization of Smart Materials’ (NMA 2010)’**, sponsored by TNSCST, conducted by Department of Mechanical Engineering, Sri Ram Engineering College, Tiruvallur, August 25th, 2010.
- One Day Expert Lecture Series on **“Intellectual Property Rights”**, conducted by Sathyabama University, Chennai, August 27th, 2010.
- **Two Day Course on ‘Testing and Characterisation of Materials’**, conducted by IIT-M in association with ASM International Chennai Chapter, Chennai, December 19 - 20, 2009.
- Two Day Faculty Development Programme on **‘Modern Teaching Methods and Research in Engineering and Technology’**, conducted by Department of Information Technology, Sathyabama University, Chennai, December 04 - 05, 2009.
- Two Day National Workshop on **‘Engineering Materials and Applications’**, conducted by Department of Mechanical Engineering, Vinayaka Missions University, Aarupadai Veedu Institute of Technology, Chennai, December 02 - 03, 2009.
- Two Day Course on **‘Materials and Metallurgy for Engineers’**, conducted by Indian Welding Society (IWS) in association with Department of Metallurgical and Materials Engineering, IIT-M, Chennai, November 27 - 28, 2009.
- **“National Workshop on Applications of Logic (NAWAL 2009)”**, conducted by Department of Mathematics, Sathyabama University, Chennai, October 22 - 24, 2009.
- National Workshop on **‘Industrial Applications of Finite Element Methods’**, conducted by Sathyabama University, Chennai, October 09, 2009.
- National Workshop on **‘Environmentally Cleaner Welding Process’**, conducted by Annamalai University, Annamalainagar, in association with Indian Welding Society (IWS) and Welding Research Institute, BHEL, Trichy, April 17 - 18, 2009.
- **One Day Workshop on Solar Thermal Systems (ODWSTS-2009) and National Safety Lecture: “Quality and NDT for Safety”**, conducted by Federation of Science Clubs of Tamil Nadu, Chennai, February 28, 2009.
- Two Days **“Research Scholars Meet on Soft Computing Techniques – A Research Perspective”**, conducted by Jaya Engineering College, Chennai, April 04-05, 2008.

- **Workshop on Nuclear Energy for National Development and Environmental Sustainability (WONDER-2007)**, conducted by Loyola College, Chennai, and Department of Atomic Energy, Mumbai, held at Chennai, July 19-21, 2007. **(Received Excellence Certificate)**
- Winter School on **“Modeling, Computing and Simulation in Engineering**, conducted by Department of Mathematics, IIT Madras, January 04-05, 2007.
- Quality Improvement Programme on **“Instructional Design and Delivery”**, conducted by National Institute of Technical Teachers Training & Research, held at Sriram Engineering College, Chennai, August 25th to 28th, 2005.
- Comprehensive training course on **“Flexible Manufacturing System”**, at MTAB-DENFORD Technology Centre, Chennai, August 01–06, 2005.
- International Seminar on **“Virtual Laboratories for Remote Access”**, conducted by Anna University, Chennai, February 21-22, 2005.
- Leadership Training Camp **“Come UP O Lions”** – a conducted by Chinmaya Yuva Kendra, at kanyakumari, 30 – 31, October 2004.
- National Seminar on **“Advances in CAD/CAM Technologies”**, conducted by Anna University, Chennai, October 10-11, 2003.
- Comprehensive training course on **“CNC Turning/CNC Milling”**, at MTAB-DENFORD Technology Centre, Chennai, December 15–19, 2003.
- AICTE – ISTE sponsored short-term course on, **Recent Trends in Product Design & Development**, held at Baba Banda Singh Bahadur Engineering College, Punjab, July 15–26, 2002.
- Certificate course on **“AutoCAD – Productivity Tools”**, at CADD Centre Training Services, Chennai, May, 1997.
- Certificate course on **“AutoCAD – 2D Drafting”**, at CADD Centre Training Services, Chennai, December, 1996.

LABORATORIES ESTABLISHED:

- Established Automotive Computer Aided Design Laboratory, Automotive Electrical and Electronics Laboratory and Fuels and Lubricants Laboratory to cater, to the (Automobile Engg) courses at Sathyabama University, Chennai.
- Established Computer Aided Design Laboratory to cater, to the BE (Mechanical Engg) and BE (Automobile Engg) courses at Sriram Engineering College, Chennai.
- Established Computer Aided Manufacturing Laboratory to cater, to the BE (Mechanical Engg) course at Sriram Engineering College, Chennai..
- Upgraded the CAM lab into Computer Integrated Manufacturing Laboratory to cater, to the BE (Mechanical Engg) course and ME (CIM) course at Sriram Engineering College, Chennai.

SUBJECTS HANDLED:

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|--|---|
| <u>UG:</u> Material Technology Non Destructive Techniques Welding Technology Industrial Robotics Industrial Mechatronics | <u>PG:</u> Concurrent Engineering Product Design |
|--|---|

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