Dr. P. Jeyaraj

Assistant Professor, Mechanical Engineering,
NIT Karnataka Surathkal, Mangalore 575 025, India
jeyaraj@nitk.edu.in, Phone: 91- 0428- 247 3682

EDUCATION

Ph.D. Vibro-acoustic behavior of structures under thermal environment
Machine Design Section, IIT Madras, India. 2009
M.E. Computer Aided Design
Government College of Engineering Salem, Tamilnadu, India. 2002
B.E. Mechanical Engineering
Madurai Kamaraj University, Tamilnadu, India. 1999.

EXPERIENCE

Assistant Professor from November 2012
Department of Mechanical Engineering,
NIT Karnataka Surathkal, India.

Associate Professor July 2011 to November 2012
Department of Mechanical Engineering,
Kalasalingam University, Tamilnadu, India.

Associate Professor August 2009 to June 2011
School of Mechanical and Building Sciences,
VIT University, Tamilnadu, India.

Research Scholar August 2005 to August 2009
Machine Design Section, IIT Madras, Tamilnadu, India.

Lecturer July 2002 to July 2005
Department of Mechanical Engineering,
Dr. Mahalingam College of Engineering and Technology, Pollachi, India.

HONORS AND AWARDS

- Young Scientist, SERB-DST India, 2012
- Scholarship granted from MHRD, Govt. of India for pursuing M.E. and Ph.D.
- Qualified in GATE 2000 with a percentile of 80.56

TEACHING INTEREST

- UG Courses
  - Mechanics of Machines (Core), Analysis and Design of Machine Components (Core), Machine Dynamics and Vibration (Core), Mechanical Vibration and Acoustics (Elective)
- PG Courses
  - Mechanical Vibrations (Elective), Finite Element Analysis (Elective) , Applied Elasticity (Elective)

RESEARCH INTEREST

- Dynamic behavior of structures under thermal load
- Vibro-Acoustic behavior of Composite Structures
- Natural Fiber Polymer Composites

FUNDED PROJECTS

- Principal Investigator of project titled, Investigation on Passive Damping Capability of Natural Fiber Reinforced Composite and Visco-elastic Sandwich Structures, SERB-DST Fast Track of Rs. 11.39 Lakhs (SR/FTP/ETA-64/2012 dated 21/12/2012) - Completed
- Co Principal Investigator of a project titled Vibration based structural health monitoring and progressive failure analysis of a rotating tapered composite plate (No. 1682) Aeronautical Research and Development Board (ARDB) Rs. 6.728 Lakhs Completed
- Principal Investigator of project titled, Experimental and Numerical Investigation on Buckling and Vibration Behavior of Non-Uniformly Heated Laminated Polymer Nano Composite Plate", Structures Panel, Aeronautical Research and Development Board, Rs. 16.03 Lakhs (On-going)

PhD GUIDANCE

M. Rajesh Completed on January 2017
Thesis title: Dynamic mechanical characterization of woven natural fiber polymer composite

Nivish George Completed on September 2017
Thesis title: Buckling and dynamic characteristics of non-uniformly heated FG-CNT polymer nanocomposite plate
Co-supervisor: Dr. S M Murigendrappa

Vinod S Bhagat Thesis comments received on October 2017
Thesis title: Buckling and dynamic behavior of non-uniformly heated cylindrical panels
Co-supervisor: Dr. S M Murigendrappa

M P Arunkumar Thesis submitted on July 2017
Thesis title: Studies on vibration and acoustic response characteristics of sandwich aerospace structures
Co-supervisor: Prof. K V Gangadharan

PUBLICATION
International Journals

1. P. Jeyaraj, N. Ganesan and Chandramouli P, Vibration and acoustic response analysis of an isotropic plate under a thermal environment, ASME Journal of Vibration and Acoustics (SCI-E), 2008, Vol. 130, Issue 5, 051005. doi:10.1115/1.2948387
2. P. Jeyaraj, N. Ganesan and Chandramouli P, Vibration and acoustic response analysis of a composite plate with inherent material damping under a thermal environment Journal of Sound and Vibration (SCI), 2009, 322-338. doi:10.1016/j.jsv.2008.08.013
3. P. Jeyaraj, Vibro-acoustic behavior of an isotropic plate with arbitrarily varying thickness European Journal of Mechanics - A/Solids (SCI), 2010, 1088-1094. http://dx.doi.org/10.1016/j.euromechsol.2010.05.009
4. P. Jeyaraj, N. Ganesan and Chandramouli P, Vibro-Acoustic behavior of a visco-elastic sandwich plate under a thermal environment International Journal Sandwich Materials and Structures (SCI-E), 2011, 13, 509-537. https://doi.org/10.1177/1099636211400129
5. P. Jeyaraj, N. Ganesan and Chandramouli P, Vibro-Acoustic behavior of a circular cylindrical shell under a thermal environment International Journal of Applied Mechanics (SCI-E), 2011, 3(3), 1-17. http://dx.doi.org/10.1142/S1758825111001111
6. P. Jeyaraj Buckling and Free vibration behavior of an isotropic plate under arbitrarily varying temperature distributions, International Journal of Structural Stability and Dynamics (SCI-E), 2012, Vol. 13, No. 6, 1250071. http://dx.doi.org/10.1142/S021945541250071X

7. N.Rajini, J.T.Winowlin Jappes, S.Rajakarunakaran, P.Jeyaraj, Mechanical and Free vibration properties of Montmorillionite nanoclay dispersed naturally woven Coconut Sheath/Glass Fiber hybrid Polymer Composite, Journal of Reinforced Plastics and Composites (SCI-E), 2012, 21(10), 1364-1376. DOI: 10.1177/0731684412455259
8. N.Rajini, J.T.Winowlin Jappes, P.Jeyaraj, S.Rajakarunakaran, Dynamic mechanical analysis and free vibration in chemical modifications of coconut sheath/Nanoclay reinforced hybrid polyester composite, Journal of Composite Materials (SCI), 2013, 47(24), 3105-3121. https://doi.org/10.1177/0021998312462618
9. N.Rajini, J.T.Winowlin Jappes, P. Jeyaraj, S.Rajakarunakaran and C Bennet, Effect of montmorillonite nanoclay on temperature dependence mechanical properties of naturally woven coconut sheath/polyester composite, Journal of Reinforced Plastics and Composites (SCI-E), 2013, 32(11), 811-822. DOI: 10.1177/0731684413475721
10. P. Jeyaraj and I. Rajkumar, Static behavior of FG-CNT polymer nano composite plate under elevated non-uniform temperature fields, Procedia Engineering (Scopus), 2013, 64, 825-834.
11. K. Senthil Kumar, I. Siva, P. Jeyaraj, J T Winowlin Jappes, Amico C Sandro and N Rajini, Synergy of fiber length and content on free vibration and damping behavior of natural fiber reinforced polyester composite beams, Materials and Design (Scopus), 2014, 56, 379-386. http://dx.doi.org/10.1016/j.matdes.2013.11.039
12. V.Arumuga Prabhu, M Uthayakumar, V Manikandan, N Rajini, P Jeyaraj, Influence of redmud on the mechanical, damping and chemical resistance properties of banana/polyester hybrid composites, Materials and Design (Scopus), 64, 270-279. http://dx.doi.org/10.1016/j.matdes.2014.07.020
13. Sidharthan S, A Daniel Gandhi, N Balashanmugam, P Jeyaraj, Numerical approach for fabrication of micromixers using microstereolithography, Procedia Materials Engineering. 5, 527-534.
14. Prakashkumar Kavalur, P. Jeyaraj, Ravindra Babu, Static Behaviour of Visco-Elastic Sandwich Plate with Nano-Composite Facings under Mechanical Load, Procedia Materials Engineering, 5, 1376-1384.
15. K S Kumar, I Siva, N Rajini, P Jeyaraj, JTW Jappes, Tensile, impact, and vibration properties of coconut sheath/sisal hybrid composites: Effect of stacking sequence, Journal of Reinforced Plastics and Composites (SCI-E), 2014, 33, 1802-1812. https://doi.org/10.1177/0731684414546782
16. K Senthilkumar, I Siva, N Rajini, P Jeyaraj, "Effect of fibre length and weight percentage on mechanical properties of short sisal/polyester composite", International Journal of Computer Aided Engineering and Technology (Scopus), 2014, 7 (1), 60-71.
17. K. Mayandi and P. Jeyaraj, Bending, Buckling and Free vibration behavior of FG-CNT reinforced polymer composite beam under non-uniform thermal load, Journal of Materials: Design and Applications, Proceedings of the Institution of Mechanical Engineers, Part L (SCI-E), 2015, 229, 13-28 https://doi.org/10.1177/1464420713493720
18. PE Sudhagar, AA Babu, V Rajamohan, P Jeyaraj, Structural optimization of rotating tapered laminated thick composite plates with ply drop-offs, International Journal of Mechanics and Materials in Design (SCI-E), 1-40, 2015. (SCI: 1.196) doi:10.1007/s10999-015-9319-9
19. PE Sudhagar, AA Babu, V Rajamohan, P Jeyaraj, Vibration analysis of a tapered laminated thick composite plate with ply drop-offs, Archive of Applied Mechanics (SCI), 85; 969-990, 2015. doi:10.1007/s00419-015-1004-9
20. Rajesh, M and P Jeyaraj, Dynamic Mechanical Analysis and Free Vibration Behavior of Intra-ply Woven Natural Fiber Hybrid Polymer Composite, Journal of Reinforced Plastics and Composites (SCI-E), 2016, 35, 228-242. https://doi.org/10.1177/0731684415611973

21. Vinod S. Bhagat, Jeyaraj Pitchaimani and S.M. Murigendrappa, Buckling and Vibration behavior of a Non-uniformly Heated Isotropic Cylindrical Panel, Structural Engineering and Mechanics, An International Journal (Scopus), 2016, 57, 543-567. http://dx.doi.org/10.12989/scs.2017.22.6.1359
22. Nivish George, P. Jeyaraj and S. M. Murigendrappa, Buckling and Free Vibration of Non- Uniformly Heated FG-CNT Polymer Nano Composite Plate, International Journal of Structural Stability and Dynamics (SCI-E), 2016, 1750064. http://dx.doi.org/10.1142/S021945541750064X
23. M Rajesh, P Jeyaraj, N Rajini, Mechanical, Dynamic Mechanical and Vibration Behavior of Nanoclay Dispersed Natural Fiber Hybrid Intra-ply Woven Fabric Composite, Nanoclay Reinforced Polymer Composites, 2016, 281-296, Springer, Singapore.
24. Nivish George, Jeyaraj Pitchaimani, SM Murigendrappa, MC Lenin Babu, Vibro-acoustic behavior of functionally graded carbon nanotube reinforced polymer nanocomposite plates, Journal of Materials: Design and Applications, Proceedings of the Institution of Mechanical Engineers, Part L (SCI-E), 2016, DOI: 10.1177/1464420716640301.
25. MP Arunkumar, Jeyaraj Pitchaimani, KV Gangadharan, M C Lenin Babu, Influence of nature of core on vibro acoustic behavior of sandwich aerospace structures, Aerospace Science and Technology (SCI), 2016, 56, 155-167. http://dx.doi.org/10.1016/j.ast.2016.07.009
26. MP Arunkumar, M Jagadeesh, Jeyaraj Pitchaimani, K V Gangadharan and M C Lenin Babu, Sound radiation and transmission loss characteristics of a honeycomb sandwich panel with composite facings: Effect of inherent material damping Journal of Sound and Vibration (SCI), 2016, 383, 221-232. http://dx.doi.org/10.1016/j.jsv.2016.07.028
27. M Rajesh, SP Singh, Jeyaraj Pitchaimani, Mechanical behavior of woven natural fiber fabric composites: Effect of weaving architecture, intra-ply hybridization and stacking sequence of fabrics, Journal of Industrial Textiles, 2016, 1528083716679157, Available on-line. https://doi.org/10.1177/1528083716679157
28. M Rajesh and Jeyaraj Pitchaimani, Dynamic mechanical and free vibration behavior of natural fiber braided fabric composite: Comparison with conventional and knitted fabric composites, Polymer Composites (SCI), 2016, doi:10.1002/pc.24234.
29. Nivish George, P Jeyaraj, SM Murigendrappa, "Buckling of non-uniformly heated isotropic beam: Experimental and theoretical investigations", Thin-Walled Structures (SCI), 2016, 108, 245-255 http://dx.doi.org/10.1016/j.tws.2016.08.019
30. V Bhagat, P Jeyaraj, SM Murigendrappa, Buckling and Free Vibration Characteristics of a Uniformly Heated Isotropic Cylindrical Panel, Procedia Engineering (Scopus), 2016, 144, 474-481
31. M P Arunkumar, Jeyaraj Pitchaimani, KV Gangadharan, MC Leninbabu, Effect of Core Topology on Vibro-acoustic Characteristics of Truss Core Sandwich Panels, Procedia Engineering (Scopus), 2016, 144, 1397-1402
32. M Rajesh, Jeyaraj Pitchaimani,, N Rajini, Free Vibration Characteristics of Banana/Sisal Natural Fibers Reinforced Hybrid Polymer Composite Beam, Procedia Engineering (Scopus),144, 2016, 1055-1059
33. MP Arunkumar, J Pitchaimani, KV Gangadharan, "Bending and free vibration analysis of foam-filled truss core sandwich panel", Journal of Sandwich Structures and Materials (SCI-E), 2016, https://doi.org/10.1177/1099636216670612
34. MP Arunkumar, Jeyaraj Pitchaimani, KV Gangadharan, M C Lenin Babu, Sound transmission loss characteristics of sandwich aircraft panels: Influence of nature of core, Journal of Sandwich Structures and Materials (SCI-E), 2017, 19, 26-48. https://doi.org/10.1177/1099636216652580
35. M Rajesh, Jeyaraj Pitchaimani, Experimental Investigation on Buckling and Free Vibration Behavior of Woven Natural Fiber Fabric Composite Under Axial Compression, Composite Structures (SCI), 2017, 163, 302-311. http://dx.doi.org/10.1016/j.compstruct.2016.12.046

36. M Rajesh, Jeyaraj Pitchaimani, Mechanical Properties of Natural Fiber Braided Yarn Woven Composite: Comparison with Conventional Yarn Woven Composite, Journal of Bionic Engineering, 2017, 14, 141-150. http://dx.doi.org/10.1016/S1672-6529(16)60385-2
37. M Rajesh, Jeyaraj Pitchaimani, Mechanical and Dynamic Mechanical Behavior of Novel Glass/Natural Fiber Intra-ply Woven Polyester Composites, Sadhana (SCI-E), 2017, Accepted for publication
38. M Rajesh, Jeyaraj Pitchaimani, Mechanical characterization of natural fiber intra-ply fabric polymer composites: Influence of chemical modifications", Journal of Reinforced Plastics and Composites (SCI-E), Accepted for publication
39. Shushanth Ashok and Jeyaraj Pitchaimani, "Buckling Behavior of Non-Uniformly Heated Tapered Laminated Composite Plates with Ply Drop-off, International Journal of Structural Stability and Dynamics (SCI-E), Accepted for publication

PUBLICATIONS
Conferences

1. P. Jeyaraj, N. Ganesan and Chandramouli Padmanabhan, Vibroacoustic response of an isotropic cylindrical shell under thermal environment, Computer Aided Engineering (CAE 2007), IIT Madras, India, 3rd -5th December, 2007.
2. P. Jeyaraj, N. Ganesan and Chandramouli Padmanabhan, Identifying critical buckling temperature of isotropic beams using sound radiation, (ICTACEM 2007), IIT Kharagpur, 27th -29th December, 2007.
3. P. Jeyaraj, N. Ganesan and Chandramouli Padmanabhan, Identifying critical buckling temperature of isotropic beams using transient sound radiation, (IC-IAME), IISc Bangalore, India, 2nd -4th July, 2008.
4. P. Jeyaraj, N. Ganesan and Chandramouli Padmanabhan, Identifying critical buckling temperature of an isotropic plate using transient sound radiation, (ICAMB), VIT University, India, December, 2009.
5. P. Jeyaraj and C. P. Karthikeyan, Buckling and Free vibration of composite plate under non-uniform temperature variations, (XVII NASAS), IIT Kanpur, India, 22nd to 24th September, 2011.
6. P.Jeyaraj and K. Mayandi, Free Vibration Analysis of CNT Reinforced Polymer Composite Rotating Beam, ISAMPE National Conference on Composites (INCCOM 11), held at Amrita University, Coimbatore, 02-03 November 2012.
7. P.Jeyaraj and K. Mayandi, Sound Radiation Characteristics of SWCNT Reinforced Polymer Composite Beam, National Synposium on Acoustics 2012 (NSA 2012), at KSRIET, Thiruchengode, 05-07 December 2012.
8. Rajkumar, P. Jeyaraj, K. Mayandi, Buckling Characteristics of FG-CNT Reinforced Polymer Composite Plate under Non-Uniform Thermal Load, 2nd International Conference on Advanced Manufacturing and Automation (INCAMA-2013), 28th-30th March, 2013, Srivilliputhur, Tamilnadu, India.
9. M C Leninbabu, Jeyaraj Pitchaimani, Sound radiation directivity patterns of heated plate at elevated temperature National Symposium on Acoustics 2015 (NSA 2015), at CSIR- National Institute of Oceanography, Goa, India, October 7-9, 2015.
10. Nivish George, Jeyaraj Pitchaimani, S. M. Murigendrappa and M. C. Lenin Babu, "Vibro-acoustic behavior of FG-CNT reinforced polymer nanocomposite beams under thermal load", National Symposium on acoustics: (NSA 2015), CSIR- National Institute of Oceanography, Goa, India, October 7-9, 2015.
11. Nivish George, P. Jeyaraj, S. M. Murigendrappa and M. C. Lenin Babu, "Vibro-acoustic Behavior of FG-CNT Reinforced Polymer Nano Composite Beam, 12th International Conference on Vibration Problems (ICVOP), IIT Guwahati, India, December 14-17, 2015.
12. Vinod Bhagat, P. Jeyaraj and S. M. Murigendrappa Optimisation of Buckling Strength and Fundamental Frequency of Uniformly Heated Cylindrical Panel using PSO, 13th International IEEE India Conference- INDICON 2016, IISC, Bangalore, India.

13. Thennavarajan S, Navin Karanth, Jeyaraj P and Soumendu Jana, Hybrid shape optimization techiques and FEM analysis of an aero engine squirrel cage elastic ring bearing support , Indian Technology Congress 2016, Bengaluru, 01-02 December 2016
14. Vinod Bhagat, P. Jeyaraj and S. M. Murigendrappa, Buckling and Free Vibration Behavior of a Temperature Dependent FG-CNTRC Cylindrical Panel Under Thermal Load, IConAMMA 2017, 17 Aug 2017 - 19 Aug 2017, Bangaluru, India.
15. Shushanth Ashok, Jeyaraj Pitchaimani, Buckling and free vibration characteristics of uniformly heated tapered laminated composite plate with ply drop-off, International Conference on Frontier in Engineering, Applied Sciences and Technology, March 31st April 1st, 2017, NIT Trichy, Tamilnadu, India.
16. S. Waddar , Jeyaraj Pitchaimani, M. Doddamani, Free vibration characteristics of fly ash cenosphere/epoxy syntactic foam composites, ICOVP, 13th International Conference on Vibration Problems, 29th November 2nd December, 2017, Indian Institute of Technology Guwahati, India. (Accepted for presentation)
17. M Jagadish, Jeyaraj Pitchaimani Dynamic and Acoustic Response of Laminated Composite Tapered Beam with Ply Drop-offs, International Conference on Composite Materials and Structures, 27-29th December 2017, Indian Institute of Technology Hyderabad, India. (Accepted for presentation)

Research Development

- Experimental test rig to predict thermal buckling strength of non-uniformly heated beam/plate/cylindrical panel like structures
- Rayleigh Integral code to find acoustic response characteristics of plates
- Experimental methodology to predict buckling and free vibration characteristics of beam like structures under axial compression using universal testing machine
- Experimental set-up to perform free and forced vibration analysis of simple structures

TEACHING Project Based Learning

- Mechanics of Machines (UG Core)
  - Identification of types of links and pairs in machine tools such as Lathe, Shaping Machine, Milling Machine etc.,
  - Design and development of card board models of four-bar mechanisms for quick-return mechanisms, rigid body guidance, function and path generation
- Machine Dynamics and Vibration (UG Core)
  - Development of mathematical model for given physical model
  - Finding free, forced vibration response of single degree of freedom system by writing code using Matlab/Mathamatica
- Mechanical Vibration and Acoustics (UG Elective)
  - Students to carry out experimental modal analysis on a given simple beam, plate and cylindrical panel structure to identify the natural frequencies and associated mode shapes.
  - These experimental results have to be compared with the results obtained through finite element software ANSYS.
- Student's Feedback (out of 5)

Mechanics of Machines	Machine Dynamics and Vibration	Mechanical Vibration and Acoustics
4.22	4.09	4.26

M. Tech. Guidance

Year	Student	Title of the thesis	Co-supervisor
2014	Mr. Abhay Kumar Singh	Free vibration behavior of glass/jute epoxy hybrid composite beam	-
	Mr. Sridharan S	Fabrication of micro-fluidic channels for MEMS using microstereolithography	Mr. Daniel Gandhi (CMTI)
2015	Mr. Ravichandra Vakkund	Mechanical and free vibration behavior of woven sisal polyester composite	-
	Mr. L N Pramod Aladurthi	Investigation and evaluation of FE methods in the study of static and dynamic behavior of large complex machine assemblies	Mr. Mohanraj (CMTI)
2016	Mr. Savendra Pratap Singh	Mechanical and free vibration behavior of natural fiber fabric and synthetic fiber fabric hybrid polymer composite	-
	Mr. M. Jegadeesh	Dynamic and acoustic response characteristics of laminated tapered composite beam with ply drop-offs	-
	Mr. S. Thennava -rajan	Design and evaluation of elastic ring squeeze film damper for small gas turbine engines	Dr. Soumendu Jana (NAL)
2017	Mr. Sangem Santhosh	Standardization of control oil panel	Mr. Rajesh Srinivasan (GE)
	Mr. Pawan Agrawal	Modelling of twist beam axle for flexible multi body dynamics	Mr. Holger Claus (Mercedes Benz)

B. Tech. Guidance

Year	Students	Title of the thesis
2014	Mr. Pranav Nandu, Mr. Ravikanth V. G. Mr. Shashwat Adhikari Vinay Kumar D. H.	Vibration analysis of beams under thermal stress
	Mr. Dayasagar V S and Mr. K R Akshay	Wave finite element method and its application to the vibration analysis of polymer nanocomposites
2015	Mr. George Justin Mr. Mayureshwara S Mr. Piyush P Kunder	Numerical and experimental investigation on buckling and free vibration behavior of laminated tapered composite structures under mechanical load
	Mr. Ashley Melvin	Thermal buckling analysis of aluminum beams Experimental and numerical studies
2016	Mr. Murugan M K Mr. K Guru Prasath Mr. Kathirvel T Mr. Manoj L and Ujwal K M	Design and analysis of tubular space frame chassis
2017	Mr. Akhil H G Mr.Akshay B L Mr. Dayananda H Kori Mr. Joshua Nesan and Mr. Alraz	Design and fabrication of an ornithopter

Administrative and other Activities

- Faculty Advisor - 2012-2016 Batch - B. Tech. Mechanical - M1 Section
- Department Time Table In-change from June 2014 to May 2016
- Member of NBA - SAR preparation for UG and PG programmes
- Machine Dynamics Lab in-charge from June 2014
- Secretary, Department Post Graduate Committee from June 2016

WORKSHOP CONFERENCES ORGANIZED

- Organized the Intensive Faculty workshop on CAD/CAE from 5.05.03 to 17.05.03 and 19.04.04 to 8.05.04 for the Industrial participants and Faculty members from Engineering Colleges at Dr. MCET, Pollachi, India
- Organized a three-day workshop on Vibrations in Rotating Machines at VIT University, India, from 26.03.2010 to 28.03.2010
- Organized a two-day workshop on Application of MATLAB in Mechanical Engineering at National Institute of Technology Karnataka, Surathkal, from 23rd 24th March 2013.
- Organized a three-day workshop on, Dynamic Analysis of Machines and Structures 2014 at NITK Surathkal, from 29th 31st January 2014
- Organized a two-day conference titled, International Conference on Polymer Composites at National Institute of Technology Karnataka, Surathkal, from 19th 20th December 2014.
- Organized a three-day workshop on, Three-day Workshop on Advanced Materials and Manufacturing at NITK Surathkal, from 28th 30th September 2016
- Organized a two-day workshop on, Advances in Stress Analysis and Dynamics at National Institute of Technology Karnataka, Surathkal, from 16-17 March 2017.

Training Programmes Attended

- Certificate course on AutoCAD 14 at CADD Centre Training Services, Madurai, India.
- Short term training programme on Role of Mechatronics in Modern Manufacturing at Nachimuthu Polytechnic, Pollachi, India from 25.112002 to 07.12.2002
- One day workshop on Advanced Developments in Autodesk products for educational institutions and industries held at Dr. Mahalingam College of Engineering and Technology, Pollachi on 21-02-2003
- Short course on Instructional Design and Delivery at Technical Teachers Training Institute Chennai from 12.05.2003 to 17.05.2003
- Participated in Two day international summit on Global Trends in Higher Education and Challenges at VIT University from 28.11.2009 to 29.11.2009
- Research interaction program on Finite element analysis of wave propagation of structures under thermal environment at Machine Design Section, IIT Madras, Chennai from 03.06.2013 to 18.06.2013
- Faculty induction program on Induction program for newly joined faculties at NITK Surathkal, from 01-07-13 to 04-07-13
- Research interaction program on Developing solvers for sound radiation from vibrating composite plates using the Rayleigh integral approach, with Prof. P. Chandramouli, at IIT Madras from 19th May 2014 to 13th June 2014.
- Research interaction program on Fabrication process of natural fiber syntactic foam reinforced sandwich composites, with Prof. Nikhil Gupta, at NewYork University, USA from 27th June 2016 to 5th July 2016.

Reference

1. Prof. P. Chandradmouli (Supervisor - PhD Thesis)
   - Professor, Machine Design Section,
     Department of Mechanical Engineering
     IIT Madras, Chennai, India.
     E-mail:mouli@iitm.ac.in Phone (o): +91-44-22574690
2. Prof. K V Gangadharan (Former HOD)
   - Professor, Department of Mechanical Engineering
     NITK Surathakal, Mangalore, India
     E-mail:kvganga@nitk.edu.in Phone (o): +91-824-2473915

3. Prof. PrasadKrishna (Former HOD)

- Dean, Alumni Affairs and Institutional Relations
  NITK Surathakal, Mangalore, India
  E-mail:krishnprasad@gmail.com Phone (o): +91-824-2473911