

## Curriculum Vitae

**Name :** Dr. Ezhil Vannan S  
**Designation:** Professor (since May 2018)  
**Date of birth:** April 14, 1978 (Bangalore, Karnataka)  
**Present Address:** Department of Mechanical Engineering  
Malnad College of Engineering  
Hassan-570 006, Karnataka  
Email: [evs@mcehassan.ac.in](mailto:evs@mcehassan.ac.in)  
Mobile No: 9845575450

### Academic qualifications:

- Ph. D.( Mechanical Engineering) - U.V.C.E, Bangalore university, Karnataka, 2014.
- M. E (Mechanical Engineering- Manufacturing Science & Engineering) - U.V.C.E, Bangalore university, Karnataka, 2004.
- B. E. (Mechanical Engineering) - U.V.C.E, Bangalore university, Karnataka, 2000.

### Fields of interest:

- Two-phase heat transfer, Heat Pipes and Thermosyphons, Energy systems.
- Wind tunnels

### Short Biosketch:



Dr.. Ezhil Vannan S is currently a Professor in the Department of Mechanical Engineering at Malnad College of Engineering, Hassan, since May 2018. He graduated as Mechanical Engineer from the Bangalore University, then went on to earn his master's degree from the same university. In 2014, he earned the doctoral degree in Mechanical Engineering from Bangalore University. His research concentrated on mechanical, physical, chemical, electrical & thermal properties of aluminium alloy reinforced with basalt short fiber metal matrix composites for aerospace & automotive applications. He has published about 20 international journal papers and 12 conference papers. His current research interests are in the area of Manufacturing Science & Engineering and Thermal Engineering with particular reference to studies related with Material characterization, Design of Heat pipes, Aerodynamics, Thermal bearing coating, Mathematical modelling and Optimization techniques.

## 1. GENERAL INFORMATION:

1. Name ( in Block Letters ) : Dr. S. EZHIL VANNAN
2. Date of Birth : 14/04/1978
3. Birth Place : Bangalore
4. Sex : Male
5. Marital Status : Married
6. Name of Father / Mother / Spouse : M. Sundar/ G. Kanaga/ S. Rekha
7. Qualification : M.E, Ph.D, MISTE, MIE.
8. Department : Mechanical Engineering
9. Current Designation : Professor
10. Date of Joining : 25/05/2018
11. Employment No. : 03
12. Religion : Hindu
13. Bank Account Number : 03531000037565  
IFSC Code : HDFC0000353
14. Telephone No. & E-mail : Mobile No: 9845575450  
E-mail: ezhilsil@yahoo.co.in/  
ezhilsil@gmail.com.
15. Aadhar Card No . : 875541603326
16. PAN Card No. : AGZPV4106D
17. State of Domicile : Karnataka
18. Nationality : INDIA
19. Address (Residence) : No 1057, 19<sup>th</sup> A cross, 15<sup>th</sup> A main, HBR Layout,  
1<sup>st</sup> stage, 5<sup>th</sup> block, Arabic College Post,  
Bangalore-560045.
20. Address (Office) : Department of Mechanical Engineering, Malnad  
college of Engineering, Hassan-573202.

## 2. ACADEMIC QUALIFICATION:

Sl. No.	Degree	Specialization	Percentage of Marks	College/University	Year of Passing/award
1	Ph. D	Mechanical Engineering	—	U.V.C.E, Bangalore university, Karnataka.	2014
2	M.E	Manufacturing Science & Engineering	81.33/ FCD	U.V.C.E, Bangalore university, Karnataka.	2004
3	B. E	Mechanical Engineering	75.5 /FCD	U.V.C.E, Bangalore university, Karnataka.	2000

## 3. TITLE OF PH.D. THESIS AWARDED:

“Development and Characterization of Aluminium-Basalt Fiber Metal Matrix Composites”

## 4. TEACHING AND RESEARCH EXPERIENCE:

Sl. No.	Period	Designation	Department / College / University
1.	25 <sup>th</sup> May 2018	Professor	Department of Mechanical Engineering, Malnad College of Engineering, Hassan.

## 5. RESEARCH GUIDANCE(Ph.D./M.Tech//B.E Project/Dissertation supervision):

Ph.D.	:	2 (2 in progress)
M.Tech Projects	:	25
B.E Projects	:	32(30 Completed +1 in progress)
B.E Mini Projects	:	70 (45 Completed +25 in progress)

## 6. PUBLICATIONS & CITATION:

<b>Total Publication: 32</b>		<b>Total Citations : 144</b>
<b>Journals: 20</b>		h-index:7
International:	20	i10-index:5
<b>Conferences: 12</b>		
International:	9	
National	3	

## **7. AREAS OF INTEREST:**

My areas of interest include Optimization Techniques, Mathematical Modeling, Metal Matrix Composites, Electroless Coating of Reinforcement, Characterization of Thermal properties of composite materials, Heat Pipe, Wind Tunnel & Aerodynamics.

## **8. MEMBERSHIPS OF PROFESSIONAL BODIES:**

1. Life Member – Indian Society for Technical Education (ISTE), New Delhi, India
2. Life Member – Institution of Engineers (MIE), Calcutta, India
3. Life Member – Society of Automotive Engineer (SAE)

## **9. COURSES TAUGHT:**

### **Undergraduate Level:**

- Material science & Metallurgy
- Fluid Mechanics
- Fluid Mechanics & Fluid Machines
- Turbomachines
- Basic Thermodynamics
- Applied Thermodynamics
- Heat Transfer
- Heat & Mass Transfer
- Aerodynamics
- Automotive Engineering
- Non convectional Energy Resources
- I/C Engines
- Refrigeration and Air Conditioning
- Operations Research
- Design of Experiments
- Design of Machine Element-I
- Design of Machine Element-II
- Control Engineering
- Numerical Methods
- Elements of Mechanical Engineering
- Statistical Quality Control
- Financial Management & Costing
- Financial Management
- Engineering Economy
- CAD/CAM
- Quantitative Techniques
- Industrial Ergonomics
- Workshop practice Laboratory
- Basic Material Testing Laboratory

- Foundry & Forging Laboratory
- Machine Shop Laboratory
- CAD/CAM Laboratory
- Energy Conversion Laboratory
- Fluid Mechanics Laboratory
- Heat & Mass Transfer Laboratory
- Design Laboratory
- Hydraulic & Pneumatic Laboratory

**Postgraduate Level (M.Tech Thermal Power Engineering):**

- Advance Fluid Mechanics
- Advance Heat Transfer
- Advance Applied Thermodynamics
- Combustion Thermodynamics
- Steam and Gas Turbines
- Refrigeration and Air Conditioning
- Vehicle Engineering
- Energy Audit
- Research Methodology
- Internship
- Projects & Seminars

**10. RESEARCH AND ACADEMIC CONTRIBUTION**

**A. Papers Published In International Journals**

1. S. Ezhil Vannan, S.Paul Vizhian, “Investigation on the Influence of Basalt Short Fiber on Thermo-Physical Properties of Aluminium Metal Matrix Composites”, International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-3, Issue-3, July 2013, 332-335.
2. S. Ezhil Vannan, S. Rekha, “A New Method for Obtaining an Optimal Solution for Transportation Problems” IJEAT, ISSN: 2249-8958, Volume-2 Issue-5, June 30, 2013 pp. 369-371.
3. S. Ezhil Vannan, S. Paul Vizhian, “Development and Characterization of Copper-Coated Basalt Fiber Reinforced Aluminium Alloy Composites” International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 2 Issue 8, August – 2013, 37-47.
4. S. Ezhil Vannan, S. Paul Vizhian, “Prediction of the Elastic Properties of Short Basalt Fiber Reinforced with Al7075 Alloy Metal Matrix Composites” Journal of Minerals and

Materials Characterization and Engineering (JMMCE),ISSN Print: 2327-4076, 2014, 2, 61-69.

5. S. Ezhil Vannan, S. Paul Vizhian, “Microstructure and Mechanical Properties of Cast Aluminium Alloy 7075/Basalt Dispersed Metal Matrix Composites” Journal of Minerals and Materials Characterization and Engineering (JMMCE),2014, 2, 182-193Online May 2014 in Sci Res.
6. R. Karthigeyan, S. Ezhil Vannan, G. Ranganath, S. Paul Vizhian, K. Annamalai, “Effect of Coating Parameters on Coating Morphology of Basalt Short Fiber for Reinforcement Preparation of Al/Basalt Metal Matrix Composites”, International Journal of Electrochemical science, ISSN 1452-3981, Vol.8, August – 2013, 10138 – 10148.
7. R. Karthigeyan, G. Ranganath , S. Ezhil Vannan , S. Paul Vizhian , K. Annamalai, “Review of Al Metal Matrix Composite and Basalt Fiber as a New Reinforcement for MMC”, Life Science Journal, ISSN: 1097-8135, **Vol.7**, 522- 560
8. S. Ezhil Vannan, S. Paul Vizhian, “Investigation on Damping Behaviour of Aluminium Alloy/Basalt Short Fiber Metal Matrix Composites” International Journal of Advanced Engineering Applications, Vol.7, Iss.2, pp.74-81 (2014).
9. S. Ezhil Vannan, S. Paul Vizhian, “Tribological Behaviour of Basalt Fiber Reinforced Aluminium Alloy Journal Bearings” International Journal of Advanced Engineering Applications, Vol.7, Iss.2, pp.82-90 (2014)
10. S. Ezhil Vannan, S. Paul Vizhian, “Statistical Investigation on Effect of Electroless Coating Parameters on Coating Morphology of Short Basalt Fiber” Jordon Journal of Mechanical and Industrial Engineering, Volume 8, Number 3, June. 2014 ISSN 1995-6665 Pages 153- 160.
11. S. Ezhil Vannan, S. Paul Vizhian, “Dry Sliding Wear Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites” Journal of Applied mechanics & Engineering, June 2014.
12. S. Ezhil Vannan, S. Paul Vizhian “Corrosion Behaviour of Short Basalt Fiber Reinforced with Al7075 Metal Matrix Composites in Sodium chloride Alkaline Medium” J. Chem. Eng. Chem. Res. Vol. 1, No. 1, 2014, pp. 1-5, Published: August 25, 2014
13. S. Ezhil Vannan, S. Paul Vizhian, R. Karthigeyan “Investigation on the Influence of Basalt Fiber on Thermal properties of Al7075/ Basalt Fiber Metal Matrix Composites” Science direct, ElsevierProcedia Engineering 97 (2014) 432 – 438.
14. S. Ezhil Vannan “Optimization of Coating Parameters on Coating Morphology of Basalt Short Fiber for Preparation of Al/Basalt Metal Matrix Composites Using Genetic Programming” Jordon Journal of Mechanical and Industrial Engineering, Volume 9, Number 1, Feb. 2015 ISSN 1995-6665 Pages 9-15.

15. S. Ezhil Vannan S. Paul Vizhian “Corrosion Characteristics of Basalt Short Fiber Reinforced with Al-7075 Metal Matrix Composites” Jordon Journal of Mechanical and Industrial Engineering Volume 9, Number 1 to be published in June 2015.
16. S. Ezhil Vannan “Experimental Investigations on Electroless Deposition of Copper on Basalt Fibers” Journal of Minerals and Materials Characterization and Engineering (JMMCE), 2015, 3, 289-297.
17. S. Ezhil Vannan S, Shravan P M, Sandesh Kumar A “Experimental Investigation of Conventional Heat Pipe using Different Working Fluids” International Journal of Engineering Trends and Technology (IJETT), V38(7), 352-354 August 2016. ISSN: 22315381. www.ijettjournal.org. Published by seventh sense research group.
18. Nithin Kumar, H. C. Chittappa, Ravikiran Kamath B, S. Ezhil Vannan “Corrosion Behaviour of Nickel Coated Short Carbon Fiber Reinforced Al Metal Matrix Composites” International Journal of Theoretical and Applied Mechanics. ISSN 0973-6085 Volume 12, Number 3 (2017) pp. 659-669.
19. S. Ezhil Vannan, Nithin Kumar, H. C. Chittappa “Development of Aluminium-Nickel Coated Short Carbon Fiber Metal Matrix Composites” January 2018, Materials today: proceedings 5(5):11336-11345
20. Nithin Kumar, Ezhil Vannan.S, Kiran M D, Vincent Linish Dsouza, Madeva Nagaral “Dry sliding wear behaviour of short Carbon fibre reinforced aluminium matrix composites” Journal of Critical Reviews, ISSN- 2394-5125 VOL 7, ISSUE 15, 2020, PP:1110-1116.

**B. Papers Published in National and International conference:**

1. S. Ezhil Vannan, “Analysis of operation wise scheduling rules in Flexible manufacturing systems” National conference on Industrial Automation: Emerging Trends, CONCOURSE-2005, Easwari Engineering College, Ramapuram, Chennai.
2. S. Ezhil Vannan “Optimization of parameters of Genetic Algorithm for scheduling problem in Flexible manufacturing systems” National conference on mechanical Engineering, NATCON.ME-2005, Ghousia college of Engineering, Ramanagram
3. S. Ezhil Vannan, S.PaulVizhian, R. Karthigeyan, G. Ranganath , “Effect of coating parameters on coating morphology of basalt short fiber for preparation of Al/Basalt Metal matrix composites, International Conference on “Recent Advances In Materials Science” Organised by: Karnataka state higher education council in association with Mangalore University, Gulbarga University, Kuvempu University and Tumkur University.
4. S. Ezhil Vannan, S.PaulVizhian, R. Karthigeyan, G. Ranganath , “Effect of copper electroless coating on the interaction between a molten Aluminium alloy (7075) and coated short basalt fiber, International Conference on ‘Recent Advances in Materials Science’ Organised by: Karnataka state higher education council in association with

Mangalore University, Gulbarga University, Kuvempu University and Tumkur University.

5. S. Paul Vizhian, S. Ezhil Vannan, R. Karthigeyan, M. C. Krishna Murthy “Optimization of Coating Parameters on Coating Morphology of Basalt Short Fiber for Preparation of Al/Basalt Metal Matrix Composites using Taguchi Technique” 2<sup>nd</sup> International Conference and Exhibition on Materials Science and Engineering at Las Vegas, USA, October 7-9, 2013.
6. S. Ezhil Vannan, R. Karthigeyan, Somashekhar P.H, S. Paul Vizhian & G. Ranganath “Statistical Investigation on Effect of Electroless Coating Parameters on Coating Morphology of Short Basalt Fiber” International Conference on Additive Manufacturing Technologies AM- 2013, Nimhans Convention Center, Bangalore, India, October 7-8, 2013.
7. S. Ezhil Vannan, S. Rekha, Harish.k ‘ A New Method for Obtaining an Optimal Solution for Transportation Problems’, International conference on Advance Materials, Manufacturing, management & Thermal Science [AMMMT-2013], SIT, Karnataka.
8. S. Ezhil Vannan, S. Paul Vizhian “Dry Sliding Wear Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites” International Mechanical Engineering Congress, 2014 (IMEC 2014), National Institute of Technology, Tiruchirappalli. 13<sup>th</sup> to 15<sup>th</sup> June 2014.
9. S. Ezhil Vannan, S. Paul Vizhian, R. Karthigeyan “Investigation on the Influence of Basalt Fiber on Thermal properties of Al7075/ Basalt Fiber Metal Matrix Composites” 12<sup>th</sup> Global Congress on Manufacturing and Management, GCMM- 2014, 8<sup>th</sup> to 10<sup>th</sup> December 2014 at VIT, Vellore, Tamilnadu.
10. S. Ezhil Vannan, “Tribological Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites using Taguchi’s Techniques” International conference on Advancements in Polymeric materials, APM 2015, February 20-22, 2015, organized by Advanced Research school for Technology and Product Simulation (ARSTPS), Central Institute of Plastics Engineering and Technology (CIPET) Guindy, in Association with Indian Institute of Science (IISc), Bangalore, India.
11. S. Ezhil Vannan, Nithin Kumar, H. C. Chittappa Development of Aluminium-Nickel Coated Short Carbon Fiber Metal Matrix Composites” International Conference on Materials, Manufacturing and Modelling, ICMMM-2017, held between march 9<sup>th</sup> to march 11<sup>th</sup> at VIT University, Vellore.
12. S. Ezhil Vannan “Innovations in Management & Strategies for Sustainable Business Development” National Conference organized St. Joseph’s Evening College, Bangalore on Saturday 11 march, 2017.



### **C. Faculty Development Program/Workshop and Seminars Conducted:**

1. Conducted one week Faculty Development Programme on “Design of Thermal Systems”, TEQIP-III sponsored Twinning FDP jointly organised by the Department of Mechanical Engineering, Malnad College of Engineering, Hassan, and Jorhat College of Engineering, Jorhat, Assam, held in Department of Mechanical Engineering, MCE, Hassan, during 27<sup>th</sup> to 31<sup>st</sup> August 2018.
2. Conducted one week Faculty Development Programme on “Research Opportunities and Challenges in Advance Materials & Manufacturing”, TEQIP-III Twinning FDP jointly organised by the Department of Mechanical Engineering, Malnad College of Engineering, Hassan, and Jorhat College of Engineering, Jorhat, Assam, held in Department of Mechanical Engineering, MCE, Hassan during 17<sup>th</sup> to 22<sup>nd</sup> December 2018.

### **D. National/International Conference Conducted:**

1. Conducted 02 days International Conference on Trends in Mechanical Sciences (ICTMES-2020) TEQIP-III sponsored Twinning International Conference jointly organised by the Department of Mechanical Engineering, Malnad College of Engineering, Hassan, and Jorhat College of Engineering, Jorhat, Assam, held in Department of Mechanical Engineering, MCE, Hassan during 6<sup>th</sup> & 7<sup>th</sup> August 2020.

### **E. Academic Position Held:**

1. Member of Academic Council of Autonomous Programme of Malnad College of Engineering, Hassan for a period of 02 years w.e.f 17<sup>th</sup> August 2020.
2. Chairman, BOE, Department of Mechanical Engineering, Malnad College of Engineering, Hassan for a period of 02 years from April 2020.
3. Chairman- BOS, Department of Mechanical Engineering, Malnad College of Engineering, Hassan
4. Member- Industry Advisory Board (IAB), Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
5. Member- Department Academic Committee (UG), Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
6. Member- Department Academic Committee (PG), Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
7. ISO Coordinator, Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
8. NBA/NAAC Coordinator, Department of Mechanical Engineering, Malnad College of Engineering, Hassan.

**F. Special Invitee to other Institutions/Organization:**

1. Participated in the Departmental Promotion Committee as an External Expert for the Review of Scientist/Engineer-SC to SD grade held in Master Control Facility, Government of India, Department of Space, Hassan-573201.
2. Participated as a Speaker on presenting the topic titled “Research Methodology” for the 5- day Faculty Development Programme on “A Paradigm Shift in Management” conduct by Ballari Institute of Technology & Management, held on 16<sup>th</sup> to 20<sup>th</sup> June 2020 through live Webinar.

**G. Faculty Development Program/Workshop/Training/STTPs and Seminars Attended:**

1. One day dissemination workshop on “PMC for UUV Applications and Electro-co-deposition Technology” Research & Development, Naval Research Board, New Delhi, organized by Dept. of Mech. Engg., RV college of Engineering, Bangalore.
2. One day dissemination workshop for “Research Aspirants of Material Science, organized by Dept. of Mech. Engg, Reva institute of technology and management, Bangalore.
3. 2-week ISTE workshop on Engineering Thermodynamics conducted by IIT Bombay under the national mission on education through ICT (MHRD, Govt. of India)
4. 1-week FDP on “Thermal Management of Electronic Equipments”, organized by Department of Mechanical Engineering, P.E.S I institute of technology, Bangalore.
5. 1-week training program on “Computational Fluid Dynamics & Ansys Fluent” organized under TEQIP phase II by Department of Mechanical Engineering, UVCE, Bangalore.
6. 2 days International conference on Advanced Materials, Manufacturing, Management and Thermal Science (AMMMT-2013) Organized by SIT, Tumkur-572103, Karnataka held on 3<sup>rd</sup> - 4<sup>th</sup> May 2013
7. 3 days International Conference on Additive Manufacturing Technologies AM-2013 International exhibition & Conference on Additive Manufacturing Technologies AM- 2013, Nimhans Convention Center, Bangalore, India held on October 7-8, 2013.
13. 2 days International conference on Advancements in Polymeric materials, APM 2015 February 20-22, 2015, organized by Advanced Research school for Technology and Product Simulation (ARSTPS), Central Institute of Plastics Engineering and Technology (CIPET) Guindy, in Association with Indian Institute of Science (IISc), Bangalore, India.
8. Workshop on Pedagogy of Instructional Design and Delivery System from 7<sup>th</sup> June to 12<sup>th</sup> June 2016 SJCE Mysuru.
9. FDP on Internet of Things (IOT) and its applications from 8<sup>th</sup> September to 12<sup>th</sup> September 2016 at SJCE Mysuru.
10. FDP on Sustenance of Energy and Environment challenges and Research Dimension from 25<sup>th</sup> July to 30<sup>th</sup> July 2016 SJCE Mysuru.

11. FDP on Advances in Pattern Recognition: An approach through MATLAB from 31<sup>st</sup> August to 4<sup>th</sup> September 2016 SJCE Mysuru.
12. International Conference on Materials, Manufacturing and Modelling, ICMMM-2017, held between march 9<sup>th</sup> to march 11<sup>th</sup> at VIT University, Vellore.
13. National Conference on Innovations in Management & Strategies for Sustainable Business Development organized by the Department of Business Administration, St. Joseph's Evening College, Bangalore on Saturday 11 march, 2017.
14. One week faculty development program "Strength based personality development program" from 28<sup>th</sup> December 2016 to 3<sup>rd</sup> January 2017 SJCE Mysuru.
15. One week faculty development program on "Theoretical and Computational Mechanics-II" organized by Department of Mechanical Engineering, N.M.A.M. Institute, Nitte during July 9-14, 2018.
16. Completed successfully Three week "TEQUIP Online Certification on Digital Transformation in Teaching Learning Process (Funded by the Ministry of HRD, Govt. of India)" conducted by Indian Institute of Technology, Bombay from 6<sup>th</sup> to 22<sup>nd</sup> April 2020.
17. Completed successfully One week "Online FDP on Transition Management for Higher Education during Covid-19 Pandemic- A Roadmap" organised under Pandit Madan Mohan Malviya National Mission on Teachers & Teaching (PMMMNTT), MHRD, New Delhi from 2<sup>nd</sup> to 6<sup>th</sup> May 2020 and awarded Grade A.
18. Participated in one day online Faculty Development Programme on "Contemporary Tools and Techniques for Teachers and Researchers in Higher Education: Experience of using Virtual Classrooms" held on 9<sup>th</sup> May at Cambridge Institute of Technology, Bengaluru.
19. Attended one day International Webinar on "How to Get Research Grants from UGC, AICTE (Minor or Major Research Projects Application Process)" jointly organised by MBITS & SMBS on 9<sup>th</sup> June 2020.
20. Attended one day webinar on "Green Entrepreneurship Development" organized by the National Institute of Technical Teachers, Training and Research, Bhopal on 9<sup>th</sup> July 2020.
21. Participated one talk on "Living Forward" organized by Wilson College, Mumbai as Part of STEP programme on 14<sup>th</sup> June, 2020.
22. Participated and completed successfully One week International Virtual Faculty Development Programme on "Building Competency in ICT based Teaching using Spreadsheet and Sustainability Strategies during Covid-19 Pandemic" organized by IQAC, ST.PAULS College from 20<sup>th</sup> to 24<sup>th</sup> July 2020.
23. Attended one day webinar on "Course Outcomes based on OBE" organized by the Department of Telecommunication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru on 27<sup>th</sup> July 2020.
24. Attended one day International Webinar on "Advance Simulation Techniques to solve Multi-Physics Problems" organized by the Department of Mechanical Engineering, University Visvesvaraya College of Engineering, Bangalore held on 18<sup>th</sup> July 2020.

25. Attended one day International Webinar on “Smart Manufacturing and the Panademic” organized by the Department of Mechanical Engineering, University Visvesvaraya College of Engineering, Bangalore held on 27<sup>th</sup> July 2020.
26. Attended one day International Webinar on “Current Metrology Trends & Importance of Computerised Data Acquisition in Mechanical Engineering” organized by the Department of Mechanical Engineering, University Visvesvaraya College of Engineering, Bangalore held on 3<sup>rd</sup> August 2020.
27. Participated and completed successfully One week “Online Research Methodology Workshop on BFSI Sector” organised under Pandit Madan Mohan Malviya National Mission on Teachers & Teaching (PMMMNTT), MHRD, New Delhi from 8<sup>th</sup> to 12<sup>th</sup> August 2020 and awarded Grade A.
28. Attended one day webinar on “W-10 Applyig for Accrediation” organized by the National Institite of Technical Teachers, Training and Research, Bhopal on 20<sup>th</sup> August 2020.
29. Attended one day webinar on “Planning for Online Instruction” organized by the National Institite of Technical Teachers, Training and Research, Bhopal on 21<sup>st</sup> August 2020.
30. Attended one day webinar on “W-11 Planning Required During the Visit activites and Post Visit activites” organized by the National Institite of Technical Teachers, Training and Research, Bhopal on 25<sup>th</sup> August 2020.
31. Participated and completed successfully One week “Research Paper & Research Proposal Writting” organized by the National Institite of Technical Teachers, Training and Research, Bhopal from 31<sup>st</sup> August to 4<sup>th</sup> September 2020.
32. Participated and completed successfully One week “Managerial Skills” organized by the National Institite of Technical Teachers, Training and Research, Bhopal from 31<sup>st</sup> August to 4<sup>th</sup> September 2020.
33. Participated and completed successfully One week AICTE Training and Learning(ATAL) Academy Online FDP on “Alternate Fuels” from 7<sup>th</sup> to 11<sup>th</sup> September at Christain College of Engineering & Technology.
34. Participated and completed successfully One week AICTE Training and Learning(ATAL) Academy Online FDP on “Sensors Tecnology” from 21<sup>st</sup> to 25<sup>th</sup> September at Dr. Ambedkar Institute of Technology, Bengaluru.
35. Attended one day webinar on “National Education Policy 2020- Higher Education Prospective” organized by the National Institite of Technical Teachers, Training and Research, Bhopal on 17<sup>th</sup> September 2020.
36. Participated and completed successfully One week International Faculty Development Programme on “Tribology For Reliability-2020” organized by GITAM Univeristy, Bangalore campus from 5<sup>th</sup> to 9<sup>th</sup> October 2020.

37. Attended one day webinar on “National Education Policy 2020- Strategies and Framework for Autonomy” organized by the National Institute of Technical Teachers, Training and Research, Bhopal on 15<sup>th</sup> October 2020.
38. Attended one day webinar on “NEP 2020: Higher Education Circular Issues and Implications” organized by the National Institute of Technical Teachers, Training and Research, Bhopal on 20<sup>th</sup> November 2020.
39. Participated and completed successfully One week International Faculty Development Programme on “TEQIP-III Course Operations Research for Business and Engineering: Concepts, Applications and Methods” conducted by Indian Institute of Technology, Delhi from 14<sup>th</sup> to 18<sup>th</sup> December 2020.
40. Participated and completed successfully Three days TEQIP sponsored STC on “Advanced Manufacturing and Materials” conducted by Indian Institute of Technology, Indore from 18<sup>th</sup> to 20<sup>th</sup> December 2020.
41. Participated and completed successfully Three days TEQIP sponsored STC on 'Computational Fluid Dynamics for Scientists and Engineers' conducted by Indian Institute of Technology, Indore from 28<sup>th</sup> to 30<sup>th</sup> December 2020.
42. Participated in the TEQIP-III sponsored Five-Day National E-workshop on “Design and Manufacturing of Advanced Materials” organized by department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal from February 15<sup>th</sup> to 19<sup>th</sup>, 2021.
43. Participated and completed successfully One week AICTE Training and Learning(ATAL) Academy Online FDP on “Research Methodology and Scientific Writing for Engineering and Management” from 16<sup>th</sup> to 20<sup>th</sup> February at Atal Bihari Vajpayee – Indian Institute of Information Technology and Management (ABV-IIITM).
44. Attended one day NBA awareness webinar on “Outcome Based Education and Accreditation” on 16<sup>th</sup> February 2021, jointly organized by National Board of Accreditation, New Delhi and Visvesvaraya Technological University, Belagavi for the Engineering colleges and Deemed to be universities in Karnataka.

#### **H. Guiding Ph.D. Research Scholar**

Guiding **two students** for their Ph.D. work under VTU. The details of the Ph.D. research scholars are furnished below

SL. No	Name	Research Centre	Contact Details		Research Area
			Mobile No	E-mail Address	
1	<b>Praveen Kumar U.B</b>	Dept of Mech.Engg. SJCE-Mysuru-06	8861664400	<a href="mailto:Ub.praveenkumar@gmail.com">Ub.praveenkumar@gmail.com</a>	Metal Matrix Composites
2	<b>Satisha G P</b>	Dept of Mech.Engg. SJCE-Mysuru-06	9066868931	<a href="mailto:satishagps@gmail.com">satishagps@gmail.com</a>	Metal Matrix Composites

### **I. Research Projects Undertaken**

- Design and Development of Subsonic Wind Tunnel –VGST
- Design and Development of Conventional Heat Pipe- VGST
- Experimental setup for coating of fiber using Electroless coating Technique

### **J. Lecture/Special Lectured in other Institutions [Expert Talk]**

<b>Sl. No.</b>	<b>Subject of Lecture delivered</b>	<b>Name and Place of Institution</b>
1.	Engineering Economy	Gopalan College of Engineering and Management, Bengaluru
2.	Operation Research and Quantitative Techniques	St. Joseph College, Bengaluru
3.	Role of Statistics in Research methodology	St. Joseph College, Bengaluru
4.	Operations Management	AIIMA, Delhi at Bangalore campus
5.	Operation Research and Quantative Techniques	CMR college, Bengaluru
6	Operation Research	Ambedkar College, Bengaluru