

CURRICULUM VITAE



Personal Information

Name	Dr. Madhu P
Designation	Assistant Professor
Department	Mechanical Engineering
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Contact No.	+91-9740627464
Birthplace	Hassan, Karnataka, India
Address	No. 49, Sri Ranganatha Nilaya, 1 st Ward, 1 st Floor, Pragathi Nagar, Near Railway Station, Rajaghatta Road, Hassan – 573201.
URL	https://www.mcehassan.ac.in/faculty.php?dept=Mechanical+Engineering&id=20&table=mce_mechanical_faculty

Publications (32)

- International Journals = 27 (SCIE = 17, Scopus = 07 & Peer reviewed = 03)
- International Conference = 04 & National Conference = 01
- Book = 01 & Book Chapter = 04
- Patent: 02 (Applied)
- Total Citations = 1113 (till July 30th, 2021, since 2017) [Google Scholar], h-index - 09 & i10 index = 09
- Research Gate Score = 21.91 (till July 30th, 2021), Total Research Interest = 926.6 & Number of reads = 19587

1. Research Area [Composite Materials]

- Composite Materials, Natural Fiber Composites, Natural Fibers, Bio-Composites, Polymer Matrix Composites
- Mechanical testing of natural fiber composites

2. Educational Qualifications

1. **Ph.D.** (Composite Materials). **2020**, Visvesvaraya Technological University, Belagavi – 590 018, Karnataka, INDIA.

Thesis Title: Characterization and mechanical behaviour of natural/ synthetic hybrid composites for structural applications.

Thesis supervisor: Dr. S. Pradeep, Dept. of Mech. Engg., MCE, Hassan

2. **M. Tech.** (Product Design and Manufacturing), **2013**, The National Institute of Engineering, Mysuru, Karnataka, INDIA. [VTU, Belagavi]

Dissertation Title: Stress Analysis and Life Estimation of Gas Turbine Blisk for Different Materials of a Jet Engine.

Dissertation supervisor: Dr. L. Krishnamurthy, MED, NIE, Mysuru

3. **B.E.** in Mechanical Engineering, **2011**, Government Engineering College, K.R. Pet, Mandya, Karnataka, INDIA. [VTU, Belagavi]
4. **Diploma** in Mechanical Engineering, **2008**, Smt. L.V. Government Polytechnic, Hassan, Karnataka, INDIA.
5. **High School** (Karnataka Board), **2005**, Sri Aravinda High School, Hassan, Karnataka.

3. Subjects Taught

▪ Elements of Mechanical Engineering	▪ Engineering Drawing
▪ Manufacturing Science – I, II & III	▪ Non-Conventional Energy Sources
▪ Non-Traditional Machining	▪ Project Management
▪ Product Design and Manufacturing	▪ Geometric Dimensioning and Tolerancing
▪ Composite Materials	▪

4. Experiences

4.1 Teaching Experience

Designation	Department	Institute
Assistant Professor	Mechanical Engineering	Malnad College of Engineering, Hassan

4.2 Administrative Experience

Assigned Post	Period
Department Seminar Co-Ordinator	August 2016 – July 2017
Department Timetable Officer	August 2017 – July 2018/ August 2019 – to till date
Department CIE Co-Ordinator	August 2019 – July 2019
Department Contineo Co-Ordinator	August 2017 to till date
Department Project Co-Ordinator	June 2020 to till date
Department R&D Committee Member	June 2020 to till date

4.3 Organizational Experience

Short Term Course/ Conference/ Workshop

- **Co-Ordinator** for One-week online FDP on “Advanced Materials Technology”, Department of Mechanical Engineering, MCE Hassan. Duration: July 1-5, 2020.
- **Organizing Committee member** in the International Conference on Trends in Mechanical Engineering Sciences - 2020 (ICTMES-2020) on 6th and 7th August 2020 organized by Department of Mechanical Engineering Sciences at Malnad College of Engineering, Hassan.
- Workshop on “Being a Great Teacher”, Department of Mechanical Engineering, MCE Hassan. Duration: November 3-4, 2018. Role: **Organizing Committee Member**.
- **Organizing Committee member** in the International Conference on Green Trends in Mechanical Engineering Sciences - 2018 (GTMES-2018) on 3rd to 5th October 2018 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan.

- **Organizing committee member** in Two-Day state level event on MCE LEARNATHON AND SUPERCODERS conducted on 1st & 2nd July 2018, organized by Malnad College of Engineering, Hassan under the sponsorship of TEQIP-III.
- **Organizing Committee member** in the International Conference on Advances in Mechanical Sciences (ICAMS-2017) on 3rd to 5th May 2017 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan.

5. Recognitions

5.1 Member of Editorial Advisory Board

- Advancement in Mechanical Engineering and Technology (HBRP Publication)
- Composite Materials (Science Publishing Group)

5.2 Reviewer of International Journals

1. Journal of Cleaner Production, **SCI/SCIE (Elsevier)**
2. Construction and Building Materials, **SCI/SCIE (Elsevier)**
3. Journal of Industrial Textiles, **SCI/SCIE (Sage)**
4. Polymer Composites, **SCI/SCIE (Wiley)**
5. International Journal of Industrial Chemistry, **ECSI/ Scopus (Springer)**
6. Materials Today: Proceedings, **Scopus (Elsevier)**
7. Applied Science and Engineering Progress (**Scopus**)
8. Multiscale and Multidisciplinary Modeling, Experiments and Design, **Google Scholar (Springer)**
9. Polímeros, **SciELO, Google Scholar (Associação Brasileira de Polímeros – ABPol)**
10. SN Applied Sciences, **Google Scholar (Springer)**
11. The African Journal of Pure and Applied Chemistry, **Google Scholar (Academic Journals)**
12. Material Today Proceeding, **Scopus (Elsevier)**
13. BioResources, **Scopus (NC State University, USA)**

5.3 Reviewer of International Conference Proceedings

1. International Conference on “**Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME - 2019)**”. Duration: May 23-24, 2019 at Dept. of Mechanical Engineering, N.M.A.M. Institute of Technology, Nitte, Karnataka, India.
2. International Conference on “**Trends in Mechanical Sciences (ICTMES 2020)**”. Duration: August 6-7, 2020 at Dept. of Mechanical Engineering Sciences, MCE, Hassan, Karnataka, India.

5.4 Reviewer of International books/ chapters

1. Book entitled ‘Additive and Subtractive Manufacturing of Composites’ in **Springer Publication**.
2. Book entitled ‘Advanced Joining Process’ in **Elsevier Publication**.

5.5 Membership of Professional Societies

1. **Life Member**, LM-99122 (2014) Indian Society for Technical Education (ISTE), New Delhi, India.
2. **Associate Member**, AMI58376-2 (2015) Institution of Engineers (IE), India.
3. **Member**, MIAENG-172340 (2015) International Association of Engineers (IAENG).
4. **Life Member**, M415090171 (2015) International Society for Research and Development (ISRDI). London Press, United Kingdom.

6. Patents

1. **Indian Patent**: “Development of Toolbox Material from Hybrid Composites Reinforced with NC, NDL, NK, GF and NP-MMC”, **Co-Inventors**: H. Mohit, G. Hemanth Kumar, V. Arul Mozhi Selvan, Sanjay M R and Suchart Siengchin. **Application Number** – 201941045139 A, Patent Journal Number - 48/2019, Journal Date - 29/11/2019, **Status**: **Submitted**.
2. **Indian Patent**: “Development of Hybrid Polymer Composites Reinforced with Prosopis Juliflora Bark Fibers, Phoenix Pusilla Leaf Fibers, Glass Fabrics and Carbon Fabrics”, **Co-Inventors**: Sanjay M R, Pradeep S, H. Mohit, B. Yogesha and Suchart Siengchin.

Application Number – 202041000392 A, Patent Journal Number - 02/2020, Journal Date - 10/01/2020, **Status: Submitted.**

7. Projects/ Research Grants

1. Experimental investigation on machining performance of cutting fluids derived from blended non edible vegetable oil (Awarded in November 2020, Ongoing)

Funding agency: Vision Group on Science & Technology, Department of IT, BT and Science & Technology, Government of Karnataka.

Duration: 1 Year

Amount: 3,00,000

Principal Investigator: Dr. T. P. Jeevan; Co Investigator: Dr. Madhu P, MCE, Hassan

8. List of publications

Book (1)

1. M.R. Sanjay, **P. Madhu**, Jyotishkumar Parameswaranpillai, Suchart Siengchin, S.M. Gorbatyuk. *Advances in Bio-Based Fibre: Moving Towards a Green Society*. Woodhead Publishing, Elsevier Publication. (<https://www.elsevier.com/books/advances-in-bio-based-fibre/sanjay/978-0-12-824543-9>)

Book Chapters (4)

1. **Puttegowda, M.**, Rangappa, S. M., Jawaid, M., Shivanna, P., Basavegowda, Y., & Saba, N. (2018). Potential of natural/synthetic hybrid composites for aerospace applications. In *Sustainable composites for aerospace applications* (pp. 315-351). Woodhead Publishing. (**Scopus**)
2. **Puttegowda, M.**, Thyavihalli Girijappa, Y. G., Mavinkere Rangappa, S., Parameswaranpillai, J., & Siengchin, S. (2020). Effect of Process Engineering on the Performance of Hybrid Fiber Composites. *Hybrid Fiber Composites: Materials, Manufacturing, Process Engineering*, 17-40. (**Scopus**).
3. Girijappa, Y. G., Ayyappan, V., **Puttegowda, M.**, Rangappa, S. M., Parameswaranpillai, J., & Siengchin, S. (2020). *Plastics in Automotive Applications*. (**Elsevier**)

4. Praveenkumara Jagadeesh., **Madhu Puttegowda.**, Yashas Gowda Thyavihalli Girijappa., Sanjay Mavinkere Rangappa., Munish Kumar Gupta., and Suchart Siengchin. Mechanical, electrical and thermal behaviour of additively manufactured thermoplastic composites for high performance applications. *In Additive and Subtractive Manufacturing of Composites.* (**Springer**) (**Accepted**)

Editorial Corner (1)

1. Puttegowda, M., Pulikkalparambil, H., & Rangappa, S. M. (2021). Trends and Developments in Natural Fiber Composites. (**Scopus**)

Journals (26)

1. **Puttegowda, M.**, Rangappa, S. M., Khan, A., Al-Zahrani, S. A., Otaibi, A. A., Shivanna, P., ... & Siengchin, S. (2021). Effect of Layering Sequence on Impact Properties of Alkali Treated Phoenix Pusilla Fibers-Glass-Carbon Fabrics Reinforced Hybrid Composite Laminates. *Journal of Natural Fibers*, 1-11. (**SCIE, IF: 2.622**).
2. Jagadeesh, P., Ningappa, V. S. H., **Puttegowda, M.**, Girijappa, Y. G. T., Rangappa, S. M., Khan, M. R., ... & Siengchin, S. Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics. *Polymer Composites.* (**SCIE, IF: 2.265**).
3. **Madhu, P.**, Bharath, K. N., Sanjay, M. R., Arpitha, G. R., & Saravanabavan, D. (2021). Effect of nano fillers on glass/silk fibers based reinforced polymer composites. *Materials Today: Proceedings.* (**Scopus**).
4. Praveenkumara, J., **Madhu, P.**, Yashas Gowda, T. G., Sanjay, M. R., & Siengchin, S. (2021). A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites. *The Journal of The Textile Institute*, 1-9. (**Scopus, IF: 1.239**).
5. TG, Yashas Gowda., Vinod., A., **Madhu, P.**, Kushvaha, V., MR, Sanjay., & Siengchin, S. (2021). A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites. *Polymer Composites*, 42(4), 1891-1900. (**SCIE, IF: 2.265**).
6. Nagarajan, K. J., N. R. Ramanujam, M. R. Sanjay, Suchart Siengchin, B. Surya Rajan, K. Sathick Basha, **P. Madhu**, and G. R. Raghav. "A comprehensive review on cellulose

nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization." *Polymer Composites*. (SCIE, IF: 2.265).

7. Bharath, K. N., **Madhu, P.**, Yashas Gowda, T. G., Akarsh Verma., Sanjay, M. R., Suchart Siengchin. Mechanical and Chemical Properties Evaluation of Sheep Wool Fiber Reinforced Vinylester/Polyester Composites. *Materials Performance and Characterization*. (ASTM International) (ESCI/ Scopus).
8. Praveenkumara Jagadeesh, Yashas Gowda Thyavihalli Girijappa, **Madhu Puttegowda**, Sanjay Mavinkere Rangappa & Suchart Siengchin (2020) Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview, *Journal of Natural Fibers*, DOI: 10.1080/15440478.2020.1854145 (SCIE, IF: 2.622).
9. **Madhu, P.**, Sanjay, M. R., Khan, A., Otaibi, A. A., Al-Zahrani, S. A., Pradeep, S., & Siengchin, S. (2020). Hybrid Effect of PJFs/E-glass/Carbon Fabric Reinforced Hybrid Epoxy Composites for Structural Applications. *Journal of Natural Fibers*, 1-11. (SCIE, IF: 2.622).
10. **Madhu, P.**, Mavinkere Rangappa, S., Khan, A., Al Otaibi, A., Al-Zahrani, S. A., Pradeep, S., & Siengchin, S. (2020). Experimental investigation on the mechanical and morphological behavior of Prosopis juliflora bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. *Polymer Composites*. Wiley. (SCIE, IF: 2.265).
11. **Puttegowda, M.**, M. Rangappa, S., Khan, A., Al-Zahrani, S. A., Al Otaibi, A., Shivanna, P., & Siengchin, S. Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/E-glass/carbon fabrics on potential engineering applications: Effect of stacking sequence. *Polymer Composites*. Wiley. (SCIE, IF: 2.265).
12. Bharath, K. N., **Madhu, P.**, Gowda, T. G., Verma, A., Sanjay, M. R., & Siengchin, S. (2020). A novel approach for development of printed circuit board from biofiber based composites. *Polymer Composites*. Wiley. (SCIE, IF: 2.265).
13. Bharath, K. N., **Madhu, P.**, Gowda, T. Y., Sanjay, M. R., Kushvaha, V., & Siengchin, S. (2020). Alkaline effect on characterization of discarded waste of Moringa oleifera fiber as a potential eco-friendly reinforcement for biocomposites. *Journal of Polymers and the Environment*, 28 (11), 2823-2836. 1-14. (SCIE, IF: 2.572).
14. **Madhu, P.**, Sanjay, M. R., SenthamaraiKannan, P., Pradeep, S., Siengchin, S., Jawaid, M., & Kathiresan, M. (2020). Effect of various chemical treatments of prosopis juliflora fibers as

composite reinforcement: physicochemical, thermal, mechanical, and morphological properties. *Journal of Natural Fibers*, 17(6), 833-844. (SCIE, IF: 2.622).

15. **Madhu, P.**, Sanjay, M. R., Jawaid, M., Siengchin, S., Khan, A., & Pruncu, C. I. (2020). A new study on effect of various chemical treatments on Agave Americana fiber for composite reinforcement: Physico-chemical, thermal, mechanical and morphological properties. *Polymer Testing*, 85, 106437. (SCIE, IF: 3.275).
16. **Madhu, P.**, Pradeep, S., Sanjay, M. R., & Siengchin, S. (2019, November). Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement. In *IOP Conference Series: Materials Science and Engineering* (Vol. 653, No. 1, p. 012016). IOP Publishing. (Scopus).
17. **Madhu, P.**, Sanjay, M. R., Pradeep, S., Bhat, K. S., Yogesha, B., & Siengchin, S. (2019). Characterization of cellulosic fibre from Phoenix pusilla leaves as potential reinforcement for polymeric composites. *Journal of Materials Research and Technology*, 8(3), 2597-2604. (SCIE, IF: 5.289).
18. **Madhu, P.**, Sanjay, M. R., SenthamaraiKannan, P., Pradeep, S., Saravanakumar, S. S., & Yogesha, B. (2019). A review on synthesis and characterization of commercially available natural fibers: Part II. *Journal of Natural Fibers*, 16(1), 25-36. (SCIE, IF: 2.622).
19. Athith, D., Sanjay, M. R., Yashas Gowda, T. G., **Madhu, P.**, Arpitha, G. R., Yogesha, B., & Omri, M. A. (2018). Effect of tungsten carbide on mechanical and tribological properties of jute/sisal/E-glass fabrics reinforced natural rubber/epoxy composites. *Journal of Industrial Textiles*, 48(4), 713-737. (SCIE, IF: 2.010).
20. **Madhu, P.**, Sanjay, M. R., SenthamaraiKannan, P., Pradeep, S., Saravanakumar, S. S., & Yogesha, B. (2018). A review on synthesis and characterization of commercially available natural fibers: Part-I. *Journal of Natural Fibers*. (SCIE, IF: 2.622).
21. Sanjay, M. R., **Madhu, P.**, Jawaid, M., SenthamaraiKannan, P., Senthil, S., & Pradeep, S. (2018). Characterization and properties of natural fiber polymer composites: A comprehensive review. *Journal of Cleaner Production*, 172, 566-581. (SCIE, IF: 7.246).
22. Praveenkumara, J., Sunder, R. N., Chandan, H. R., Srivathsa, M., & **Madhu, P.** (2017, December). Natural Fibers and Its Composites for Engineering Applications: An Overview. In *SARC International Conference, Chennai India*. (Google Scholar).

23. Gowda, T. Y., Sanjay, M. R., Bhat, K. S., **Madhu, P.**, SenthamaraiKannan, P., & Yogesha, B. (2018). Polymer matrix-natural fiber composites: An overview. *Cogent Engineering*, 5(1), 1446667. (ESCI/ Scopus).
24. **Madhu, P.** (2016). Stress analysis and life estimation of gas turbine blisk for different materials of a jet engine. *International Journal of Science and Research*, 5(6), 1103-1107. (Google Scholar).
25. Praveenkumara, J., **Madhu, P.**, Yashas Gowda, T. G., & Pradeep, S. Studies on Mechanical Properties of Bamboo/Carbon Fiber Reinforced Epoxy Hybrid Composites Filled with SiC Particulates. (Google Scholar)
26. **Madhu P**, Pradeep S, Mallappa D, Manjunath H, Ningappa N, Prashant M, "Electrical Power Generation by Footsteps using Piezo-electric Transducers", International Journal of Recent Trends in Engineering & Research. 2016. (Google Scholar)

Submitted (7)

1. Praveenkumara J, **Madhu P**, Sanjay M R, and Suchart Siengchin. Influence of nanofillers on biodegradable composites: A comprehensive review. *Polymer Composites*. Wiley. (SCIE, IF: 2.265).
2. K. N. Bharath, **P. Madhu**, M. R. Sanjay, S. Basavarajappa, Suchart Siengchin, Anish Khan, Catalin Iulian Pruncu. Study of Treatment Effect on the Cocos Nucifera lignocellulosic fibers as alternative for polymer composites. *Journal of Natural Fibers*. Taylor & Francis. (SCIE, IF: 2.622).
3. Kiran Kumar, **Madhu P**, Jeevan T. P., Pradeep S, Experimental Investigation of SiC/ Al₂O₃ Reinforced Al 6082 Hybrid Metal Matrix Composites. IOP Publishing (Scopus).
4. Asim Ali Yaqoob, Akil Ahamd, Najwa Najihah Mohamad Daud, Mohamad Nasir Mohamad Ibrahim, Heba Abbas Kashmery, **P. Madhu**, Anish Khan, & Abdullah M Asiri. Application of rotten rice as a substrate for bacterial species to generate energy and the removal of toxic metals from wastewater through microbial fuel cells. *Environmental Science and Pollution Research*. Springer. (SCIE, IF: 3.056).
5. S. Manikandan, G. Mathubala, K.B. Dhanalakshmi, C. Rathika Thaya Kumari, Heba Abbas Kashmery, **P. Madhu**, Anish Khan, Abdullah M Asiri, & Mohammed Jawaid. Synthesis and

Characterization studies of metal (Cd, Co, Cr and Fe) doped TiO₂ photocatalyst applications via sintering method. *Arabian Journal of Chemistry*. Elsevier. (SCIE, IF: 4.762).

6. Muthuppalani M, Ahmed Al Otaibi, Balasubramanian S, Ayyar Manikandan, Manikandan S, P. Manimaran, G. Mathubala, Heba Abbas Kashmery, **Madhu P**, Showkat Ahmad Bhawani, Anish Khan, & Abdullah M. Asiri. Synthesis, physico-chemical, spectral and bio-potential activities of Co(II) and Ni(II) complexes with O and N donor ligands. *Molecules*. (SCIE, IF: 3.267).
7. Nivedhitha Kabeerdass, Maghima Mathanmohun, A. Manikandan, Heba Abbas Kashmery, **P. Madhu**, A. Khan & Abdullah M Asiri. Bacillus mediated silver nanoparticle synthesis and its antagonistic activity against bacterial and fungal pathogens. *Journal of Drug Delivery Science and Technology*. (SCIE, IF: 2.734).

Conferences

International Conferences

1. Kiran Kumar, Pradeep S, **Madhu P**, Jeevan T. P. “Experimental Investigation of SiC/ Al₂O₃ Reinforced Al 6082 Hybrid Metal Matrix Composites”, International Conference on Trends in Mechanical Engineering Sciences (ICTMES-2020), August 6-7th 2020 at Malnad College of Engineering, Hassan.
2. **P. Madhu**, K. N. Bharath, M. R. Sanjay, G. R. Arpitha, D. Saravanabavan, “Effect of Nano Fillers on Glass/ Silk Fibers Based Reinforced Polymer Composites”, International Conference on Advanced Trends in Mechanical & Aerospace Engineering (ATMA-2019), February 7-9th 2019 at Dayananda Sagar University, Bengaluru, Karnataka.
3. **P. Madhu**, M. R. Sanjay, S. Pradeep, Suchart Siengchin, “Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement”, International Conference on Advances in Material and Manufacturing Engineering – 2019 (ICAMME-2019), March 15-17th 2019 at KIIT University, Bhubaneswar, Odisha.
4. Praveenkumara J, Sunderraj N, Chandan H R, Srivathsa Marathe, **Madhu P**, “Natural Fibers and Its Composites for Engineering Applications: An Overview” SARC International Conference on Mechanical and Production Engineering (ICMAPE – CHENNAI), December 3rd, 2017 at Chennai, India.

National Conferences

5. **P Madhu**, Sanjay M R, S Pradeep, B Yogesha, “Study on Tensile Behaviour of Century/Carbon Fiber Reinforced Polyester Based Composites” 14th State Level ISTE Student's Annual Convention and 5th National Conference on Emerging Trends in Engineering, Research and Management (NCETERM - 2017), 8th and 9th September 2017 at GM Institute of Technology, Davangere, Karnataka, India.

9. Certification Courses

1. Outcome Based Pedagogic Principles for Effective Teaching (NPTEL 4 Weeks Course). Conducted by IIT Kharagpur. Duration: August – September 2018.
2. Educational Leadership (NPTEL 8 Weeks Course). Conducted by IIT Kharagpur. Duration: July – September 2019.
3. Introduction to Composites (NPTEL 12 Weeks Course). Conducted by IIT Kanpur. Duration: September – December 2020.

10. Short Term Course/ Workshops/ Webinars Attended

1. Rapid Prototyping and Manufacturing Technologies, Department of Mechanical Engineering, NIE, Mysore. Duration: November 12, 2011.
2. International Conference and Exhibition on “Additive Manufacturing Technologies”. Nimhans Convention Centre, Bangalore. Duration: August 27-28, 2012.
3. Empowering Teachers, Department of Industrial and Production Engineering, MCE Hassan. Duration: October 24-25, 2013.
4. Hydraulic, Pneumatic Systems in Industrial Automation, MCE-Bosch Rexroth, MCE, Hassan. Duration: November 27-29, 2014.
5. Analytical and Numerical Techniques in Applied Mathematics and Engineering, Department of Mathematics, MCE Hassan. Duration: July 28 to August 2, 2014.
6. Finite Element Analysis Using Ansys, Department of Mechanical Engineering, NIT Calicut. Duration: August 16-18, 2014.
7. Essentials Skills for Mechanical Engineers, Department of Mechanical Engineering, MCE Hassan. Duration: September 1-5, 2014.
8. Advances in Bio-Lubricants and Cutting Fluids, Department of Mechanical Engineering, MCE Hassan. Duration: December 8-12, 2014.

9. Materials Microstructure Characterization using Optical & Scanning Electron Microscopy, IIT Hyderabad. Duration: December 20-24, 2015.
10. Feel Teacher, MCE Hassan. Duration: June 6-11, 2016.
11. Realistic Approach to Wear Measurements and Mechanisms, Department of Mechanical Engineering, NMIT, Bangalore. Duration: September 19-21, 2016.
12. Virtual Laboratory, Department of E&C Engineering, MCE Hassan, Duration: February 16, 2017.
13. Technology Involved in Rapid Prototyping and Reverse Engineering, III Cell, MCE Hassan. Duration: February 20, 2017.
14. Emerging Trends in Materials and Manufacturing Technology, III Cell, MCE Hassan. Duration: February 27 to March 3, 2017.
15. Advanced Material Characterization Techniques, CMTI, Bengaluru. Duration: March 13-15, 2017.
16. Advances in Tribology and Surface Engineering, Department of Mechanical Engineering, MCE Hassan. Duration: March 20-21, 2017.
17. Research Methodology and Intellectual Property Rights, Department of Mechanical Engineering, MCE Hassan. Duration: March 23-25, 2017.
18. Advanced Materials & Manufacturing Technology, Department of Mechanical Engineering, RIT, Bangalore. Duration: December 4-16, 2017.
19. Challenges in Non-Conventional Energy Sources, Department of Automobile Engineering, MCE Hassan. Duration: April 9-13, 2018.
20. Total Quality Management, Department of Industrial and Production Engineering, MCE Hassan. Duration: May 28 – June 1, 2018.
21. Recent Trends in Automotive Technology, Department of Automobile Engineering, MCE Hassan. Duration: June 25-29, 2018.
22. Hands on Training Program for Mechanical Engineering Faculty Members on Thermo-Mechanical Simulator, Department of Metallurgical and Materials Engineering, IIT Roorkee. Duration: July 17-20, 2018.
23. Outcomes Based Education, MCE Hassan. Duration: August 4-5, 2018.
24. Being a Great Teacher, Department of Mechanical Engineering, MCE Hassan. Duration: November 3-4, 2018.

25. Lightweight Structures for Engineering Applications through Composites and Topology Optimization, GEC, Hassan. Duration: January 27 to February 7, 2020.
26. Tailor Made Nanomaterials for Applications in Sensors, LED's & Water Remediation, Department of Mechanical Engineering, ACS College of Engineering & RajaRajeswari College of Engineering, Bengaluru. Duration: June 5, 2020.
27. Advances in Automotive Engines, Department of Automobile Engineering & Department of Mechanical Engineering, Jain (Deemed to be University), Bengaluru. Duration: June 6, 2020
28. A Paradigm Shift in Management, Department of Mechanical Engineering, BITM, Ballari. Duration: June 16-20, 2020.
29. Advances in Machining Process, Department of Mechanical Engineering, PESITM, Shivamogga. Duration: June 17-19, 2020.
30. Composite Materials and its Characterizations, Department of Mechanical Engineering, AIT, Bengaluru. Duration: June 22-26, 2020.
31. Intellectual Property Rights and Innovations, East West Institute of Technology, Bengaluru. Duration: June 23-27, 2020.
32. Nuclear Energy: Myth v/s Reality, School of Mechanical Engineering, REVA University, Bengaluru. Duration: June 29, 2020.
33. Trends in Energy Conservation Technologies, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: July 6-11, 2020.
34. Advanced Technologies in Materials & Manufacturing Engineering, Department of Mechanical Engineering, Dayananda Sagar University School of Engineering, Bengaluru. Duration: July 6-11, 2020.
35. Advancements in Dynamic Analysis of Machine Elements, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: July 27-29, 2020.
36. Recent Advances & Trends in Mechanical Engineering & Material Science, Department of Mechanical Engineering, K. S. Institute of Technology, Bengaluru. Duration: July 27-31, 2020.

37. Challenges and Opportunities in Biocomposites, School of Automotive and Mechanical Engineering, Kalasalingam Academy of Research & Education, Tamilnadu. Duration: July 29, 2020.
38. Developments in Solar Energy Applications and Solar Tracking System, Departments of Mechanical and E & C Engineering, University BDT College of Engineering, Davanagere and Department of Mechanical Engineering, SDM Institute of Technology, Ujire. Duration: July 27 - 31, 2020.
39. Advanced Nano Materials, Nano Fabrication Techniques & Devices, Department of Mechanical Engineering, BMS Institute of Technology and Management, Bengaluru. Duration: August 10 – 14, 2020.
40. Computational Fluid Dynamics, Department of Mechanical and Manufacturing Engineering, Ramaiah University of Applied Sciences, Bengaluru. Duration: August 12 – 14, 2020.
41. Research & Innovation, Department of Information Science and Engineering, VVCE, Mysuru. Duration: August 17 – 21, 2020.
42. Basic Concepts in Turbo machinery and its Applications, Department of Mechanical Engineering, The National Institute of Engineering, Mysuru. Duration: August 24 – 28, 2020.
43. 3D Printing & Design (ATAL FDP), BMS College of Engineering, Bengaluru. Duration: September 1 – 5, 2020.
44. Recent Advances in Tribology and Surface Engineering: Series 2 of 4 – *Tribology of Machine Components and Applied Tribology*, Department of Mechanical Engineering, Saintgits College of Engineering, Kottayam, Kerala. Duration: September 14 – 19, 2020. (AICTE sponsored STTP).
45. Recent Advances in Tribology and Surface Engineering: Series 3 of 4 – *Introduction to Special Topics like – Nanotribology, Biotribology, Space tribology, Biomimetics and Tribology in Industry*, Department of Mechanical Engineering, Saintgits College of Engineering, Kottayam, Kerala. Duration: October 12 – 17, 2020. (AICTE sponsored STTP).

46. Creating Smart and Green Society through Advance Technology of Green Energy (Phase 1), Malnad College of Engineering, Hassan, Karnataka. Duration: December 10 – 15, 2020. (AICTE sponsored STTP).
47. Creating Smart and Green Society through Advance Technology of Green Energy (Phase 2), Malnad College of Engineering, Hassan, Karnataka. Duration: December 17 – 22, 2020. (AICTE sponsored STTP).
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I hereby declare that the above-mentioned information is true to my knowledge and I bear the responsibility for the above-mentioned.

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