

## BIODATA



### NAME & ADDRESS:

Institute mail id: mech.sakri@bldeacet.ac.in

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Google scholar link: <https://scholar.google.com/citations?user=RXnUXs4AAAAJ&hl=en>

Vidwan link: <https://vidwan.inflibnet.ac.in/profile/107358>

### ACADEMIC BACKGROUND:

Qualification	Name of the university	Month & year of passing	Division	Percentage of marks obtained
Ph.D (under QIP scheme of AICTE)	Anna University, Chennai (PSG College of Technology, Coimbatore)	September, 2009	FCD (Course work)	10.00 CGPA
M.Tech., (Machine Design)	IIT-Delhi	December, 1995	First Class	7.10 CGPA
B.E. (Mechanical)	Mysore University (Govt. BDT CE, DVG)	December, 1987	First Class	68%

### PROFESSIONAL EXPERIENCE:

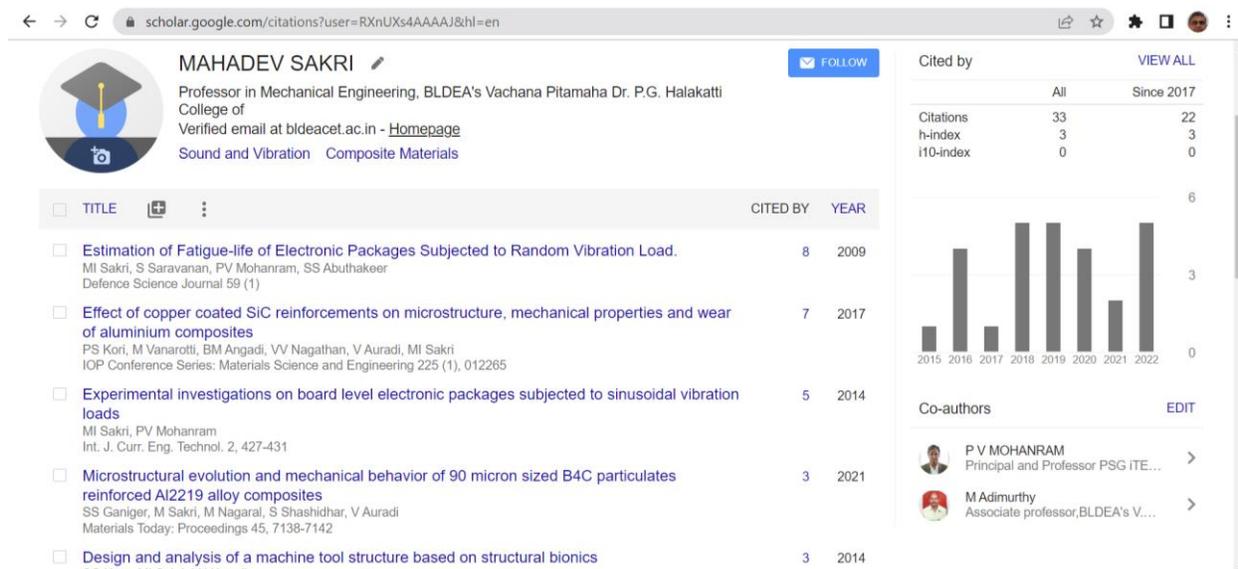
S.No	Name of the post	Name of the employer	From	To	Nature of job
1	Production supervisor	M/s Suri Industries, Hubli	1-1-1988	31-5-1988	
2	Lecturer	Principal, B.L.D.E.A's Dr. P.G. Halakatti College of Engineering. & Technology., Vijayapur.	1-9-1988	31-12-2004	Teaching
3	Assistant professor	Principal, B.L.D.E.A's Dr. P.G. Halakatti College of Engineering. & Technology., Vijayapur.	1-1-2005	31-3-2009	Teaching
4	Professor (Mechanical)	Principal, B.L.D.E.A's Dr. P.G. Halakatti College of Engineering. & Technology., Vijayapur.	1-4-2009	<b>Till date</b>	Teaching, Research and Administration

## SCIENTIFIC RECORDS:

→h-Index: 03

→Citations: 33

→Cumulative impact factor:



## AWARDS & DISTINCTIONS:

1. **Best Paper Award:** "Performance Evaluation of Hydraulic Oil Filters using Multi-pass test," 2<sup>nd</sup> International Conference on Industrial Tribology, Hyderabad, November 1999.

2. **Best Paper Award:** "Estimation of Fatigue Life of Electronic Packages Subjected To Random Vibration Load", International Scientific Conference on Engineering and Applied Sciences (ISCEAS-2017), 25-26, May, 2017, Bangkok, Thailand.

## HONORS & RECOGNITIONS:

1. Member of the National Advisory Board, First National Conference on "Energy Efficient Mechanical Engineering System Design and Manufacturing" PSG College of Technology-Coimbatore (11-12 March, 2011)
2. Chairperson of a session "Ergonomics, Occupational Health, Exercise & Sports Physiology" at ASSOPICON-2016, organized by BLDE University, Bijapur during September 2016.
3. Member of the National Advisory Board, International Conference on Recent Innovations in Engineering, Technology and Management(ICRIETM-March-2017), Nandha Engineering College, Erode.
4. **Chaired a Session at:** International Scientific Conference on Engineering and Applied Sciences (ISCEAS-2017), 25-26, May, 2017, Bangkok, Thailand.

5. Chairman, Board of Studies, Automobile Engg., Board, VTU-Belagavi (2013-2016)
6. Member BoS (Mech), PDA College of Engg., Gulbarga (2012-14)
7. Member (VTU Nominee), BoS (Automobile), PES College of Engg., Mandya.
8. Reviewer for the FAE journals (<http://www.academicpub.org/fae/>)
9. Reviewer for ASSE Journal
10. Reviewer for Elsevier Journal of Mechanical Behavior of Biomedical Materials
11. Member of R&D Board, MSRUAS, Bangalore

#### RESEARCH GRANTS:

Year	Project	Grant Amount	Funding agency	Type of project	Status
2014-15/ 2015-16	Setting up Noise and Vibration Engg. laboratory	20.00 Lakhs	VGST, GoK, Bengaluru. K-FIST(L1)	Research	Completed

#### RESEARCH SUPERVISION/GUIDANCE:

Ph.D/ M.Sc. (Engg)	Research Topic	University	Year	Candidate	Status
Ph.D	Design, Development and Optimization of Electromagnetic Vibration Energy Harvesting Device.	VTU-Belgaum*	2013	Vijay Patil	Ongoing
Ph.D	Synthesis and Characterization of Copper Coated B <sub>4</sub> C Particulate Reinforced Al2219 Alloy Composites	VTU-Belgaum*	2015	Subhashchandra Ganiger	Ongoing
M.Sc. (Engg)	A Study on Wear Behavior of Aluminum Reinforced with SiCp Composites at Elevated Temperature	VTU-Belgaum*	2010	P.S.Kori	Completed

#### INVITED LECTURES/RESOURCE PERSON:

1. Delivered a lecture during DST sponsored faculty development programme on "Sensor Interface and Integration in R&D work "organized by PSG College of Technology, Coimbatore (26-28, September, 2011)
2. Conducted one credit course for the undergraduate students of Mechanical Engineering at PSG College of Technology, Coimbatore (18-19, March, 2010).

3. Delivered a lecture on "Vibration Measurement" at VIT-Vellore, for the PG students of Mechatronics division (19th October, 2012).
4. Delivered lectures on "Understanding Oneself" at BLDEA's College of Engg. & Tech., Bijapur, for the First Year BE students (Nov-2012)
5. Delivered a lecture on "Personality Development" at BLDEA's College of Engg. & Tech., Bijapur, for the First Year MBA students (Nov-2012)
6. Delivered a lecture during DST sponsored faculty development programme on "Sensor Interface and Integration in R&D work "organized by PSG College of Technology, Coimbatore (28-30, January, 2013).
7. Delivered a lecture on "Frugal Engineering" during AICTE sponsored 2 week faculty development program on "Strategies for environmentally conscious product design and manufacturing" (2-15, June, 2013) at PSG College of Technology, Coimbatore.
8. Delivered two lectures at SDM College of Engineering and Technology, Dharwad (25-6-2013), as a part of TEQIP on (i) Automation and Sensors and (ii) Sound and Vibration Sensors, their interfacing and Measurement.
9. Delivered lectures on following topics for faculty of BLDEA's College of Engineering and Technology, Vijayapur:
10. Outcome Based Education and Outcome Based Accreditation
11. Assessment and Evaluation of Program Educational Objectives, Program Outcomes and Course Outcomes

### **FDP/STTP/WORKSHOPS/CONFERENCES ORGANIZED**

1. National Conference on Industrial Tribology, 15-16, March, 1998
2. One week ISTE sponsored STTP on "Smart Actuators", 27-31, March, 2006
3. One day workshop on "Intellectual Property Rights" 26, February, 2011
4. One week FDP on "Innovative Design", 28-3-2016 to 1-4-2016
5. One week FDP on "Simulation of Engineering Systems using MATLAB" April, 2016

**PATENTS:** NIL

### **BOOKS/BOOK CHAPTERS:**

**The manuscript of book "Mechanical Measurements and Metrology" is ready.  
Looking for publishers**

## JOURNAL PUBLICATIONS:

1. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, **2008**, "Modeling and Simulation of Electronic Packages Subjected to Drop Impact," International Journal for Computational Methods in Engineering Science and Mechanics, No. 9, 138, pp.138-148.
2. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, **2008**, "Fatigue Prediction of Electronic Packages Subjected to Random Vibrations," Journal of Microelectronics and Electronic Packaging, No. 1, 5, pp. 31-35
3. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, **2007**, "Experimental Investigations on the Dynamic Behavior of a Printed Circuit Board Housed in an Enclosure," National Journal of Technology, No.1, Vol. 3, pp. 1-4
4. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, S.Syath Abuthakeer, **2008**, "Life Assessment of Electronic Packages Subjected to Random Vibrations," Defense Science Journal (DRDO), Vol. 59, No. 1, pp. 58-62
5. **Sakri M.I.** and Mohanram P.V. (2009), 'A New Approach to Reduce Vibration Amplitudes of a Printed Circuit Board in a Random Vibration Environment' Journal of Cooperation among University, Research, and Industrial Enterprise (BITS Pilani), Vol. 2. No.2, pp. 19-27.
6. **M.I.Sakri**, S.Saravanan, P.V. Mohanram, S.Sayath Abuthakeer (2009), 'Influence of Mounting Methods on the Dynamic Behavior of Printed Circuit Boards,' National Journal of Technology, Vol. 5, No. 1, pp. 35-42.
7. **M.I.Sakri** , P.V.Mohanram (2009), "Numerical Analysis of Dynamic Responses Due to Board Level Drop Test" AMSE Journal, Vol. 78, No.2, pp. 64-79
8. A. Selvakumar, M.I.Sakri, Sayath Abuthakeer, P.V. Mohanram (2011), "Experimental Analysis of Fundamental Frequencies for a PCB with Various Mounting Materials," National Journal of Technology, Vol. 7, No.3, pp.
9. **M.I. Sakri**, P.V.Mohanram (2011) 'Investigations on Response of PCBs Subjected to Vibration Environment,' International Journal of Engineering Systems Modeling and Simulation.
10. M.I.Sakri, Pradeep Malaji (2013) "Magnetorheological Fluid Damper and Its Analysis", Journal of Manufacturing Engineering, Vol. 8, Issue 2, pp. 85-91
11. M.I.Sakri, P.V. Mohanram (2014) "Experimental Investigations on Board Level Electronic Packages Subjected to Sinusoidal Vibration Loads," International Journal of Current Engineering and Technology, Special issue (February, 2014), pp. 427-431.  
(DOI: <http://dx.doi.org/10.14741/ijcet/spl.2.2014.79>)
12. Sujeet. Ganesh. Kore, **M. I. Sakri**, L. N. Karadi, (2014) "DESIGN AND ANALYSIS OF A MACHINE TOOL STRUCTURE BASED ON STRUCTURAL BIONICS" International Journal of Mechanical Engineering and Robotics Research (IJMERR), Vol. 3, No. 3, pp. 731-735.
13. M.I.Sakri, P.V. Mohanram, (2015), " Protecting Printed Circuit Boards from Harsh Vibration Environment, "IJIRSET, Vol. 4 No. 9, pp. 9045-9050

14. **M.I. Sakri, (2018)** "Challenges in Achieving Excellence Through Learning Outcomes in Tier-II Engineering Institutions Located in Tier-3 Cities, Journal of Emerging Technologies and Innovative Research, Volume 5, Issue 9, pp. 11-14.
15. M. Adimurthy, M.B. Kuchanur, **M.I.Sakri,**" Nanotechnology and the Automotive Industry – A Review", International Journal of Management, Technology and Engineering, Vo. 9, Issue 11, pp. 2040-2048.
16. M.I. Sakri, M. Adimurthy, (April 2019) "Vibration Control of Electronic Equipment in a Dynamic Environment Using Spacers", International Journal of Recent Technology and Engineering, Volume 7, Issue 6S4, pp. 657-659.
17. Vijay Patil, M.I. Sakri, July 2019, "Effect of Electrical Damping Ratio on Maximum Average Power of an Electromagnetic Vibration Harvester at Resonance and off-Resonance Conditions," International Journal of Recent Technology and Engineering, Volume-8 Issue-2S7, July 2019, pp. 328-333.
18. Subhashchandr Ganiger, M.I. Sakri, June 2020, "Investigations on Mechanical Behavior of Al2219Alloy-B4C Particulates Reinforced Composites", Journal of Critical Reviews, VOL 7, ISSUE 15, 2020, pp. 1101-1109.
19. Vijay B. Patil, Mahadev Sakri, January 2021, "Experimental Studies on the Effect of Shunted Electrical Loads on the Performance of a Vibration-Based Electromagnetic Energy Harvester" FME Transactions, VOL 49, NO. 1, pp. 163-172. doi: 10.5937/fme2101163V

## CONFERENCE PRESENTATIONS:

1. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, October-**2007**, "Analysis of Electronic Packages Subjected to Random Vibrations," Proceedings of International Conference on Advances in Manufacturing Engineering, MIT- Manipal
2. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, May – **2008**, "Modeling and Simulation of Board Level Solder Joint Reliability During Drop Impact," Proceedings of ITherm-2008 (Jointly organized by IEEE, ASME & CPMT), **Lake Buena Vista, Florida, United States.**
3. **M.I.Sakri**, P.V.Mohanram, June-**2008**, "Heat Flow Analysis in a Desktop Computer Cabinet using FLOTHERM," Proceedings of International Conference on Modeling, Simulation and Manufacturing Systems, University Engineering College, Andhra University, Vishakapatnam.
4. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, July -**2008**, "Methodology of Testing Electronic Packages Subjected to Random Vibration Loads," IISc Centenary-International Conference on Advances in Mechanical Engineering (IC-ICAME), **IISc, Bangalore**
5. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, July -**2008**, "Investigations on Effect of Mounting Conditions on Dynamic Behavior of Printed Circuit Boards," IISc Centenary-International Conference on Advances in Mechanical Engineering (IC-ICAME), **IISc, Bangalore.**
6. **M.I.Sakri**, P.V.Mohanram , July-2009, "Vibration Control of Electronic Assemblies in a Dynamic Environment", Proceedings of IPACK2009, July 19-23, 2009, **San Francisco, California, USA**
7. **M.I.Sakri**, Nov-**1999**, "Performance Evaluation of Hydraulic Oil Filters using Multi-pass test," 2<sup>nd</sup> International Conference on Industrial Tribology, Hyderabad.

***This paper was awarded as the best paper in a category***

8. **M.I.Sakri**, November-**2003**, "Lubricant Cleanliness and Filter Rating," National Conference on Recent Developments in Mechanical Engineering, TIET-Patiala
9. **M.I.Sakri**, December-**2005**, "Determination of Stress Concentration Factor in Machine Components using FEM," National Conference on Advances in Mechanical Engineering, PA College of Engineering, Mangalore.
10. **M.I.Sakri**, January-**2006**, "Smart Materials and Their Characteristics," National Conference on Recent Trends in Manufacturing , KIT's College of Engineering, Kolhapur
11. **M.I.Sakri**, "Analysis of a Vehicle Moving on a Rough Road," COMET-**2006**, Bellary College of Engineering, Bellary.
12. **M.I.Sakri**, S.Saravanan, P.V.Mohanram, October-**2007**, "Finite Element Analysis of Electronic Packages Subjected to Random Vibrations," ANSYS India Conference, Bangalore.
13. Mohanram P.V. and **M.I. Sakri** (2009), 'Vibration Control of Electronic Equipment in a dynamic Environment,' Recent trends in Manufacturing Technology, College of Engineering, Guindy.
14. Angadi. B.M., **Sakri M.I.** (2009) 'Dry Sliding Wear Behavior of Hypereutectic Al-Si alloy,' TRIBO-INDIA Conference on Tribology of Automotive Systems, December 11-12,2009, IIT-Delhi.
15. Angadi. B.M., **M.I. Sakri** (2009) 'Effect of Addition on the Tribological Wear Behavior of Hypereutectic Al-Si alloy,' TRIBO-INDIA Conference on Tribology of Automotive Systems, December 11-12,2009, IIT-Delhi.
16. **M.I. Sakri** (2010) 'Vibration Control in Printed Circuit Boards due to Mechanical Shock Loads,' FIME-2010, International Conference on Frontiers in Mechanical Engineering, NITK-Surthkal, 20-22, May-2010.
17. P.V.Malaji, I.G.Bhavi, **M.I. Sakri**, B.P.Algonda (2010) 'Mechanical Based Anti Braking System for a 3.22 CC Race Car,' FIME-2010, International Conference on Frontiers in Mechanical Engineering, NITK-Surthkal, 20-22, May-2010.
18. **M.I.Sakri**, P.V. Mohanram, (September 2011), Experimental Investigations on Board Level Electronic Packages Subjected to Vibration Loads,' ICoVP-2011, Prague, Czech Republic.
19. Iresh G.Bhavi, **M.I.Sakri**, S.N.Kurbet, (2011) "Multi Body Dynamic analysis of Differential gear box" in ANSYS international user's Conference'2011, held at Sheraton Hotel, Bangalore during 13<sup>th</sup> October, 2011.
20. Iresh G.Bhavi, **M.I.Sakri**, S.N.Kurbet, (2011), Fatigue Life Estimation and Failure Analysis of Bevel Gears Used in Differential Gear Box of an Automobile – A Review, SAE International
21. Iresh G.Bhavi, **M.I.Sakri**, S.N.Kurbet "Analysis and Testing of Differential gear box of an Automobile- A Review" in ICDAAME'2011, to be held at SKP College of Engineering, Thiruvannamalai during 16<sup>th</sup> & 17<sup>th</sup> December, 2011.
22. I.G. Bhavi, N.S. Devoor, **M.I.Sakri** "Analytical and Experimental Investigations on a Vibrating PCB with Heavy Mounted Components," ICETE-2012, NMAMIT, Nitte, 16<sup>th</sup> -17<sup>th</sup> , May, 2012

23. **M.I.Sakri**, M. Adimurthy, M.B. Kuchanur, "Vibration Control in Printed Circuit Boards due to Mechanical Shock Loads," International Conference on Challenges and Opportunities in Mechanical Engineering, Industrial Engineering and Management Studies (ICCOMIM-2012), MSRIT-Bangalore, 11<sup>th</sup> -13<sup>th</sup> July, 2012.
24. R.S. Kattimani, **M.I. Sakri**, A.S. Malipatil, V.V. Nagthan, " Structural Health Monitoring and Damage Detection Using Networked Sensing", International Conference on Challenges and Opportunities in Mechanical Engineering, Industrial Engineering and Management Studies (ICCOMIM-2012), MSRIT-Bangalore, 11<sup>th</sup> -13<sup>th</sup> July, 2012.
25. **M.I.Sakri**, P.V. Malaji, "Modeling and Simulation of Magneto-rheological Fluid Damper for Quarter Car Model" International Congress on Computational Mechanics and Simulation (ICCMS), IIT Hyderabad, 10<sup>th</sup> -12<sup>th</sup> , December 2012
26. **M.I.Sakri**, "Re-inventing Traditional Home Appliances for Healthy Living" International Conference on Emerging Trends in Mechanical Engineering (ICETME-2013), Vallabh Vidyanagar during 4<sup>th</sup>-5<sup>th</sup> January 2013.
27. **M.I.Sakri**, P.V. Malaji, "Magentorehological (MR) Fluid Dampers and Vibration Control" 3<sup>rd</sup> International Conference on Recent Advances in Material Processing Technology (RAMPT'13), National Engineering College, K.R.Nagar, Kovilpatti, 7<sup>th</sup>-9<sup>th</sup>, January, 2013.
28. **M.I. Sakri**, P.V. Mohanram, "Experimental Investigations on Board Level Electronic Packages Subjected to Sinusoidal Vibration Loads," 1<sup>st</sup> International Conference on Advances in Mechanical Sciences 2014, 9-11, January, 2014, Hyderabad.
29. V. B. Patil, **M. I. Sakri**, I.Saikh, S.Rout , "Design of the trocar -cannula lens cleaning mechanism using a manually operated flapper –Feasibility study using computer aided design& Engineering Approach,CAD & CAE", 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at College of Engineering., Pune, Maharashtra, INDIA.
30. **M.I. Sakri**, P.V. Mohanram, "Estimation of Fatigue Life of Electronic Packages Subjected To Random Vibration Load", International Scientific Conference on Engineering and Applied Sciences (ISCEAS-2017), 25-26, May, 2017, Bangkok, Thailand.

**This paper was awarded as the BEST PAPER**

31. **M.I. Sakri**, "Challenges in Achieving Excellence Through Learning Outcomes in Tier-II Engineering Institutions Located in Tier-3 Cities, Second International Conference on Engineering, Technology, Science and Management Innovation (ICETSMI-2018), September 2, 2018, Pune.
32. **M.I. Sakri**, M. Adimurthy, "Vibration Control of Electronic Equipment in a Dynamic Environment Using Spacers", 6<sup>th</sup> International Conference on Applied Science, Engineering and Technology, 29-30, December, 2018, Pondicherry.
33. M.Adimurthy, M.B. Kuchanur, **M.I.Sakri**, Nanotechnology and Automotive Industry- A Review, 2<sup>nd</sup> International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM-2018), 25<sup>th</sup> November, 2018, MCCA, Pune.
34. M.I. Sakri, M. Adimurthy, (2018) "Vibration Control of Electronic Equipment in a Dynamic Environment Using Spacers", International Conference on Applied Science, Engineering and Technology, 29-30, December 2-18, Pondicherry.

35. Vijay Patil, M.I. Sakri, (July 2019) "Effect of Electrical Damping Ratio on Maximum Average Power of an Electromagnetic Vibration Harvester at Resonance and off-Resonance Conditions," 10<sup>th</sup> -12<sup>th</sup> July, 2019 at NIT Durgapur, West Bengal, India.
36. Subhashchandra Ganiger, Mahadev Sakri, Madeva Nagaral , S. Shashidhar, V. Auradi, February 2021 (In press) "Microstructural evolution and mechanical behavior of 90 micron sized B4C particulates reinforced Al2219 alloy composites, " Materials Today: Proceedings (Elsevier) Doi.org/10.1016/j.matpr.2021.02.026

### Faculty Development Programs -Attended

Sl. No.	Topic	Place	Duration	
			From	To
1	NBA and NAAC Accreditation Process	Online by: MSRIT- Bengaluru	04-06-2020	08-06-2020
2	Vishwa Guru Bharat – The Glory of Traditional Indian Sciences and Technologies	Online by: RIT- Bengaluru	27-07-2020	31-07-2020
3	Flipped and Blended Learning	Online by: SVNIT-Surat AICTE-ATAL Academy	10-08-2020	14-08-2020
4	Effective Engineering Teaching in Practice	NPTEL online course	February 2019	March 2019
5	Earned certificate by qualifying in the exam.	Four weeks	August 2019	October 2019

### Conferences/Workshops/STTPs organized:

1. NAAC Approved Two days' workshop on "Emerging Trends in Quality Education in Institutes of Higher Education", 22-23, February 2019.
2. Five days faculty development program on "Pedagogy for Higher Education" 22-7-2019 to 26-07-2019.
3. "Art of effectively framing Course Outcomes", 28-11-2019.
4. VTU-TEQIP 1.3 sponsored five days faculty development program on "Outcome Based Education and NBA Accreditation", 22-26, January 2020.
5. Course Development; July – August, 2020