

DR. SANKET N. BHAVSAR

Principal

Shri S'ad Vidya Mandal Institute of Technology (SVMIT)

(Gujarat Technological University)

Bharuch, Gujarat, India

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CAREER OBJECTIVE

The aim is to develop and use the recent state of the art technology in a useful manner to help society of science and technology. The ultimate goal is to contribute innovations in engineering by promoting skill development and entrepreneurship in the youth of today.

ACADEMIC QUALIFICATION

- **Ph.D. Mechanical (2011)**
Indian Institute of Technology Delhi (**IIT Delhi**)
Specialization – Micro and Nano Machining using Focused Ion Beam (FIB) Milling
- **M.Tech. Mechanical (2003)**
Indian Institute of Technology Madras (**IIT Madras**)
Specialization – Computer Integrated Manufacturing
- **B.E. Production (1998)**
Birla Vishvakarma Mahavidyalaya (**B.V.M.**) **Engineering College**
Sardar Patel University, Vallabh Vidyanagar

WORK EXPERIENCE: 24 years as on 2 August 2023.

- **Principal** (16 January 2023 – till date)
Shri S'ad Vidya Mandal Institute of Technology (SVMIT), Bharuch
- **Professor and Head** (1 April 2013 – 31 December 2022)
G H Patel College of Engineering & Technology
- **Professor** (16 April 2012 – 31 December 2022)
G H Patel College of Engineering & Technology
- **Associate Professor** (1 June 2005 – 15 April 2012)
G H Patel College of Engineering & Technology
- **Asst Professor** (2 August 1999 – 31 May 2005)
G H Patel College of Engineering & Technology

Date of Birth : 6 October 1976

Nationality : Indian

Marital Status : Married

Physically Handicapped : NO

Category : General

AREA OF INTEREST

Manufacturing
Production
Conventional and Unconventional Machining
Computer Aided Manufacturing
Robotics
Micro Machining and Micro Fabrication
Micro-Nano Technology
Machine Vision
Sensor Technology

SOFTWARE KNOWLEDGE

MATLAB
C Programming
AutoCAD
Solid Works
LabVIEW
8085 simulator
SIMATIC Manager (for PLC)
Keil (version4)

COURSES TAUGHT:

UG LEVEL

Basic Mechanical Engineering
Materials Science
Metallurgy
Manufacturing Technology – I
Manufacturing Technology – II
Computer Aided Manufacturing
Automated Manufacturing
Industrial Robotics
Operations Research
Machine Vision (Digital Image Processing)
Laboratory – Microprocessors & Microcontrollers
Laboratory – PLC (Programmable Logic Controllers)

PG LEVEL

Sensor Technology
Automation and Computer Integrated Manufacturing

ACHIEVEMENTS:

1. Awarded with “**Best Professor in Mechatronics Engineering Studies**” by Dewang Mehta National Education Award, 25 September 2019.
2. During the tenure of Dr. Sanket as Head of department, Mechatronics Department **accredited by NBA** (National Board of Accreditation) for the following periods.
1 July 2015 to 30 June 2018;
1 July 2018 to 30 June 2021;
1 July 2021 to 30 June 2022;
1 July 2022 to 30 June 2025.

GRANT RECEIVED

1. MODROBS grant (of Rs. 8.0 lakh) for Modernization in Robotics Lab received. – Project completed.
2. GUJCOST (DST), Minor Research Project grant (of Rs. 4.70 lakh) received to carry out research in the area of Machining, 2016. – project completed.
3. For organizing International Conference ICIAME-2018, AICTE grant received.
4. For organizing International Conference ICIAME-2016, DST grant received.
5. For organizing International Conference ICIAME-2013, DST and GUJCOST grant received.

MEMBER OF BOARD OF STUDIES

Served as a Chair Person of Board of Studies for Mechatronics discipline at following university.

1. Gujarat Technological University (GTU), Ahmedabad, Gujarat.

Serving as a member of Board of Studies for Mechatronics Dept, at following universities:

1. U.V. Patel College of Engineering, Ganpat University, Kherva, Dist: Mehsana, Gujarat.
2. Parul University, Waghodia, Gujarat.
3. TeamLease Skills University, Tarsali, Vadodara.
4. Uka Tarsadia University, Bardoli.
5. ITM (SLS) Baroda University, Vadodara
6. CVM University, Vallabh Vidyanagar (2020-21; 2021-22; till December 2022)

PUBLICATIONS: (Chronologically reverse order)

JOURNAL:

1. Amit R Patel, Sanket N Bhavsar, Laser machining of die steel (EN-31): an experimental approach to optimize process parameters using response surface methodology, International Journal of Automotive & Mechanical Engineering, vol. 18(1), pg: 8563-8576, 2021. (SCI)
2. Amit R Patel, Sanket N Bhavsar, Laser machining of die steel (En-31): an experimental investigation to study the effect of process parameters, Advances in Materials and Processing Technologies (Taylor & Francis), Published online: 12 Oct 2020, DOI: 10.1080/2374068X.2020.1829958. (SCI)
3. Patel R.D., Bhavsar S.N., Optimisation of machining parameters on cutting force during end milling of AISI D2 tool steel using Genetic Algorithm, Industrial Engineering Journal, Vol. 13(4), 2020.
4. Darshit R. Shah and Sanket N. Bhavsar, An experimental investigation of tool nose radius and machining parameters on Ti-6Al-4V (ELI) using grey relational analysis, regression and ANN models, International Journal of Data and Network Science, vol.3, 2019, pg: 291-304, doi: 10.5267/j.ijdns.2019.1.004.
5. Darshit R. Shah and Sanket Bhavsar, Investigation of Effect of Parameters on Cutting Force while Turning Ti-6Al-4V (ELI), International Journal of Technical Innovation in Modern Engineering & Science, Vol. 5(3), 2019, pg: 119-122.
6. Ravikumar D. Patel and Sanket N. Bhavsar, Effect on surface roughness and cutting force during hard machining of AISI D2 tool steel using AlCrN coated tool using OVAT, - International Journal of Research and Analytical Reviews, vol. 6(1), 2019, 206-211.
7. Yash S. Kansara, Sanket N. Bhavsar, Gunjan D. Shah, Remote Machine Monitoring System Based on GSM Technology, **Journal of Mechatronics**, American Scientific Publishers, Accepted for publication, 2016 (Journal closed).
8. R.D.Patel, Sanket N. Bhavsar, Design of Experiment for Machining of Aluminium in CNC Milling by Taguchi Method, International Journal of Engineering Science and Futuristic Technology, Vol. 1(7), 2015, page 1-6, ISSN: 2454-1338(O), ISSN: 2454-1125(P), Impact Factor: 2.92, ID: IJESFT2015V01|07341244.
9. Jignesh M Hathiwala, Sanket N. Bhavsar, Anand Y Joshi, Effect of submerged arc welding process parameters on weld bead geometry and hardness of ASME SA516 grade 70 steel weld metal, **Journal of Mechatronics**, American Scientific Publishers, vol. 4, No.4, 2015, page: 1-6, DOI: 10.1166/jom.2015.1120.

10. R.D.Patel, N.V.Oza, Sanket N. Bhavsar, Prediction of Surface Roughness in CNC Milling Machine by Controlling Machining Parameters using ANN, International Journal of Mechanical Engineering and Robotic Research, vol. 3(4), 2014, page: 353-359, ISSN: 2278-0149.
11. Sanket N. Bhavsar, S. Aravindan, P Venkateswara Rao, Investigating Material Removal Rate and Surface Roughness using Multi-Objective Optimization for Focused Ion Beam (FIB) micro-milling of Cemented Carbide, **Journal of the International societies for Precision Engineering and Nanotechnology**, Vol. 40, 2015, page: 131-138, Impact Factor: 1.40, DOI: 10.1016/j.precisioneng.2014.10.014.
12. Himanshu B. Patel, Sanket N. Bhavsar, The of a New Type of Wind-Solar Driven Natural Turbine Ventilator Working on the Principle of Eddy Current, **Int Journal for Research in Technological Studies**, Vol. 1 (9), August 2014, page: 31-34, ISSN (online): 2348-1439.
13. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Machinability Study of High Speed Steel for Focused Ion Beam (FIB) Milling Process – An Experimental Investigation at Micron / nano Scale, **Journal of the International societies for Precision Engineering and Nanotechnology**, vol. 38(1), 2014, page: 168-173, ISSN 0141-6359, Impact Factor 1.40, DOI: 10.1016/j.precisioneng.2013.08.009.
14. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Experimental Investigation of Redeposition during Focused Ion Beam (FIB) Milling of High Speed Steel, **Journal of the International societies for Precision Engineering and Nanotechnology**, vol. 36(3), 2012, page: 408-413, DOI: 10.1016/j.precisioneng.2011.12.005, Impact Factor 1.40.
15. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Machinability Study of Cemented Carbide using Focused Ion Beam (FIB) Milling, **Journal of Materials and Manufacturing Processes**, vol. 27(10), 2012, page: 1029-1034, DOI: 10.1080/10426914.2011.654166, Impact Factor 1.49.
16. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, An Accurate and Efficient Control over the Present Numerical Model of Depth of Sputtering in Focused Ion Beam Milling, Proceedings of The Institution of Mechanical Engineers (**IMEchE**), **Part N, J. of Nanoengineering and Nanosystems**, Vol. 223, 2009, Page 9-18, DOI: 10.1243/17403499JNN163.
17. S. N. Bhavsar, An Approach for Selection of Variable Feedrate for Quality Machining of Sculptured Surfaces, **Journal of Institution of Engineers (India) - Production**, Vol 87, Pt 2, 2007, Page 36-41.

CONFERENCE:

1. Amit R Patel, Sanket N Bhavsar, Experimental Investigation to Optimize Laser Cutting Process Parameters for Difficult to Cut Die Alloy Steel using Response Surface Methodology, 1st International Conference On Energy, Materials Sciences & Mechanical Engineering-2020 (EMSME-2020), October30-Novemeb1 2020, Organized by NIT Delhi, Accepted for publication in Materials Today Proceedings (Elsevier), doi: 10.1016/j.matpr.2020.11.201, vol. 43(1), 2021, pg. 28-35.
2. Amit R Patel, Kashyap K Ramaiya, Chandrakant V Bhatia, Hetalkumar shah, Sanket N Bhavsar, Artificial Intelligence: Prospect in Mechanical Engineering Field – A Review, Springer's LNDECT series: International Conference on Data Science and Intelligent Applications ICDSIA-2020, 24-25 January 2020, organized by Gandhinagar Institute of Technology, Gujarat
3. Patel R.D., Bhavsar S.N., Optimization of Machining Parameters to Minimize Surface Roughness During End Milling of AISI D2 Tool Steel Using Genetic Algorithm, Int Conf on Advances in Materials and Manufacturing Engineering, 15-17 March 2019, Lecture Notes in Mechanical Engineering, Springer, Singapore, 10 January 2020, page: 231-238, DOI: https://doi.org/10.1007/978-981-15-1307-7_25, Print ISBN: 978-981-15-1306-0, Online ISBN: 978-981-15-1307-7.

4. Darshit Shah and Sanket Bhavsar, Effect of Tool Nose Radius and Machining Parameters on Cutting Force, Cutting Temperature and Surface Roughness – An Experimental Study of Ti-6Al-4V (ELI), 2nd International Conference on Materials Manufacturing and Modelling, ICMMM – 2019, organized by Vellore Institute of Technology (VIT), Tamilnadu, 29-31 March 2019, Materials Today: Proceedings (Elsevier), Vol 22, pg: 1977-1986.
5. Ravikumar D. Patel and Sanket N. Bhavsar, Experimental investigation during end milling of AISI D2 tool steel using AlCrN coated tool, 2nd International Conference on Materials Manufacturing and Modelling, ICMMM – 2019, organized by Vellore Institute of Technology (VIT), Tamilnadu, 29-31 March 2019, Materials Today: Proceedings (Elsevier), Vol 22, pg: 2647-2656.
6. Darshit R. Shah, Sanket N. Bhavsar, Experimental Investigation of effect of tool nose radius and cutting parameters on surface roughness of Ti-6Al-4V(ELI), Proceedings of 4th International Conference on Innovations in Automation and Mechatronics Engineering 2018 (ICIAME2018), 2-3 February 2018.
7. Ravikumar D. Patel, Sanket N. Bhavsar, Effect on cutting force during hard machining of AISI D2 tool steel using AlCrN coated tool, Proceedings of 4th International Conference on Innovations in Automation and Mechatronics Engineering 2018 (ICIAME2018), 2-3 February 2018, Intech Publisher.
8. Pragnesh D. Panchal, Sanket N. Bhavsar, A critical study and review on abrasive flow micro machining process for parameter optimization and process implementation, Proceedings of 4th International Conference on Innovations in Automation and Mechatronics Engineering 2018 (ICIAME2018), 2-3 February 2018.
9. Bhatt Pujita, Sanket N. Bhavsar, Anand Y. Joshi, Active vibration control using sensors and actuators: A Review, **National Conference** on Design, Analysis and Optimization in Mechanical Engineering (DAOME), 18-19 March 2016, Organized by Mechanical Engg Department, M.S. University, Vadodara, India, page:172-178, ISBN: 978-93-5258-831-2.
10. Mehul Gosai, Sanket N. Bhavsar, Experimental Study on Temperature Measurement in Turning Operation of Hardened Steel (EN36), **Int Journal of Procedia Technology**, vol. 23, 2016, page: 311-318, DOI: 10.1016/j.protcy.2016.03.032, 3rd International Conference on Innovations in Automation and Mechatronics Engineering 2016 (ICIAME2016), 5-6 February 2016.
11. Sanket N. Bhavsar, Dhrudeep Thakker, Hiren Chaudhary, Controlling Honing Process Parameters for Producing Logarithmic Profile on Inner Raceway of Taper Roller Bearing, Proceedings of the 17th **ISME Conference**, ISME17, October 3-4, 2015, IIT Delhi.
12. Harsh Valera, Sanket N. Bhavsar, Experimental Investigation of Surface Roughness and Power Consumption in Turning Operation of EN 31 Alloy Steel, **Int Journal of Procedia Technology**, vol. 14, 2014, page: 528-534, DOI: 10.1016/j.protcy.2014.08.067, 2nd International Conference on Innovations in Automation and Mechatronics Engineering 2014 (ICIAME2014), 7-8 March 2014.
13. Keyur Joshi, Sanket N. Bhavsar, Rajesh Sanghvi, Image Retrieval System using Intuitive Descriptors, **Int Journal of Procedia Technology**, vol. 14, 2014, page: 535-542, DOI: 10.1016/j.protcy.2014.08.068, 2nd International Conference on Innovations in Automation and Mechatronics Engineering 2014 (ICIAME2014), 7-8 March 2014.
14. Sanket N. Bhavsar, Analysis of Centering Error in Eccentrically Mounted Graduated Circle using Graphical Approach, Proceedings of 2nd International Conference on Industrial Engineering 2013 (ICIE-2013), Organized by Dept of Mechanical Engg., **Sardar Vallabhbhai National Institute of Technology, Surat (SVNIT)** – 395 007, Gujarat, India, 20-22 November 2013, Vol. 2, page: 1004-1010, ISBN: 978-93-83083-37-4.

15. Sanket N. Bhavsar, and Priyam A. Parikh, Actuation of Pneumatic and Hydraulic System using DTMF Technology, **Proceedings of International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013)**, Gujarat, India, 21-23 February 2013, page:184-190, ISBN 978-81-924744-0-3.
16. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Micromachining of Cemented Carbide Material using Focused Ion Beam (FIB) Milling, **6th International Conference on Micromanufacturing (ICOMM – 2011)**, TOKYO DENKI UNIVERSITY, JAPAN, 313-318, 7-10 March, 2011.
17. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Machinability Comparison between HSS and Cemented Carbide Microtool Materials using Focused Ion Beam (FIB) Milling, **Proceedings of the 6th India-Japan Joint Seminar on Micro/Nano Manufacturing Science**, Sponsored by **Department of Science and Technology, Govt of India**, New Delhi and **Joint Society for Promotion of Science, Tokyo, Japan**, March 2011, at IIT DELHI.
18. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Micromilling of High Speed Steel (HSS) using Focused Ion Beam (FIB) Milling, **Proceedings of All India Manufacturing Technology Design and Research Conference – 2010** (3rd International and 24th AIMTDR – 2010), Andhra University College of Engineering, INDIA, 1, 217-222, 13-15 December 2010.
19. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Effect of Redeposition – An Important Consideration in Existing Mathematical Model of Sputtering Process in Focused Ion Beam Milling, **Proceedings of IEEE NANO 2010**, 10th International Conference on Nanotechnology, **SEOUL, SOUTH KOREA**, 768-772, 17-20 August, 2010, DOI: 10.1109/NANO.20105697818.
20. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, A Critical Review on Microtools Fabrication by Focused Ion Beam Technology (FIB) Technology, **Proceedings of The 2009 International Conference of Mechanical Engineering (ICME'09)**, under World Congress on Engineering (**WCE 2009**), LONDON, U.K., 1 – 3 July 2009, Page 1510-1515.
21. Sanket N. Bhavsar, Aravindan S, and P Venkateswara Rao, Fundamentals and Applications of Micro and Nano Machining, **Proceedings of National Conference on Innovations in Mechatronics Engineering 2009 (IME 09)**, Mechatronics Engg Dept, G H Patel College of Engg and Tech, Vallabh Vidyanagar – 388 120, Gujarat, India, 13–14 March 2009, page 5-11.
22. S. N. Bhavsar, and R. C. Sanghvi, Cost Optimization of Slab Milling Operation Using Genetic Algorithms, **National Conference on Emerging Trends in Mechanical Engineering (ETME)**, Department of Mechanical Engineering, **Sardar Vallabhbhai National Institute of Technology, Surat (SVNIT)** – 395 007, Gujarat, India, 4-5 June 2007.
23. S. N. Bhavsar, Tool Deflection in Sculptured Surface Machining, **Global Conference on Production and Industrial Engineering, CPIE – 2007**, Industrial Engg Department, Dr. B R Ambedkar National Institute of Technology, Jalandhar – 144 011, India, 22-24 March 2007.

BOOK PUBLICATION

1. Editor: Sanket N. Bhavsar, **Proceedings of International Conference on Innovations in Automation and Mechatronics Engineering 2018 (ICIAME-2018)**, organized by Mechatronics Dept, G H Patel College of Engineering & Technology, 2-3 February 2018, Intech Publisher.
2. Author: Sanket N. Bhavsar, **Micro-Nano Machining: Focused Ion Beam Milling**, LAMBERT Academic Publishing, Germany, ISBN13: 978-3-659-91671-7, ISBN10: 3659916714, EAN: 9783659916717, Year of Publication: 2016.
3. Editor: Sanket N. Bhavsar, **Proceedings of International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013)**, organized by Mechatronics Dept, G H Patel College of Engineering & Technology, 21-23 February 2013. Victorious Publishers, Delhi, India, ISBN 978-81-924744-0-3, Year of Publication: 2013.

PG STUDENTS GUIDANCE

Number of PG Students Guided: 11
Number of PhD Students (completed): 03

Topic of PhD student Thesis (ongoing):

Laser (CO₂) micro machining, CNC machinability analysis, Abrasive based micro machining

Topic of ME students' Thesis:

1. Machinability study of hardened EN-31 steel (Mr. Harsh Valera)
2. Image recognition in Digital Image Processing (Mr. Keyur Joshi)
3. Controlling process parameters of Solar based Magneto Ventilator (Mr. Himanshu Patel)
4. Automation of Whiffle Tree Mechanism for space application, ISRO project (Ms. Vyoma Jaiswal)
5. Experimental study of temperature measurement in turning operation of hardened steel EN-36 (Mr. Mehul Gosai)
6. Optimization of submerged arc welding process parameters using Genetic Algorithm for ASME SA516 Grade 70 steel (Mr. Jignesh Hathiwal)
7. Factory machine monitoring and control from remote location using GSM technology (Mr. Yash Kansara)
8. Active vibration control of a space borne subsystem, ISRO project (Ms. Pujita Bhatt)
9. Energy conservation in blower motor with variable frequency drive using PLC and SCADA (Ms. Meghal Darji)
10. Development of vision assisted dimension measuring system to study the effect of different illumination (Mr. Jaydipkumar)
11. Stability analysis and control of Hexapod robot using PID controller (Mr. Jigarkumar Gohil)

REVIEWER

Served as a Reviewer

- Int. Journal of Precision Engineering
- Various Int. Conferences

LABORATORY DEVELOPMENT

Given contribution for the developments of following laboratories at Mechatronics deaprtmetn:

Machine Vision Laboratory; Robotics Laboratory; Computer Aided Manufacturing Laboratory; Sensor Technology

ORGANIZED CONFERENCES / COURSES / WORKSHOPS

- Organized and served as a **CONVENER** of the **4th International Conference, ICIAME2018**, which is organized at Mechatronics Department, G H Patel College of Engineering & Technology, 2-3 February 2018.
- Organized and served as a **CONVENER** of the **3rd International Conference, ICIAME2016**, which is organized at Mechatronics Department, G H Patel College of Engineering & Technology, 5-6 February 2016.
- Organized and served as a **CONVENER** of the **2nd International Conference, ICIAME2014**, which is organized at Mechatronics Department, G H Patel College of Engineering & Technology, 7-8 March 2014.
- Organized One Week Certificate Course on Fundamentals of Mechatronics Engineering, at Mechatronics Department, G H Patel College of Engineering & Technology, 2-7 February 2015, partially supported by ISTE chapter (GCET College).

- Organized and served as an **ORGANIZING SECRETARY** of the **1st International Conference, ICIAME2013**, at Mechatronics Department, G H Patel College of Engineering & Technology, 21-23 February 2013, partially supported by GUJCOST Gandhinagar and SERB, DST (Dept of Science & Technology) Delhi.
- Organized One Day Workshop on **“Industrial Robotics and Computer Aided Manufacturing”** on 25 April 2004 at G H Patel College of Engineering and Technology.

ATTENDED SEMINAR / PROFESSIONAL COURSES / TRAINING / WORKSHOP

➤ **PROFESSIONAL COURSES UNDERTAKEN**

- Professional training programme on “Oracle DBA”, 25thApril, 1999 to 24thMay, 1999, at Client-Server Software Pvt Ltd. (A Division of New Boston Select Group, USA), Ahmedabad, Gujarat.
- Professional training programme on “Oracle 8.0 and Developer 2000”, 11thDecember, 1998 to 1st March, 1999, at Client-Server Software Pvt Ltd. (A Division of New Boston Select Group, USA), Ahmedabad, Gujarat.

➤ **TRAINING ATTENDED**

- Two days workshop on “Virtual Instrumentation in Engineering Applications”, Organized by CHAMOS Matrusanstha, Dept of Mechanical Engg, CSPIT Changa-CHARUSAT, sponsored by GUJCOST Gandhinagar and NI Bangalore, 8-9 March 2013.
- **First SERC school on “Micromachining”**, jointly organized by **IIT Bombay and BARC Mumbai** at **IIT Bombay** (Mechanical Engg Dept), 2 to 7 June, 2008.
- One day seminar on “Non destructive Testing”, organized by Mechanical Engineering Department, G H Patel College of Engineering and Technology, 11 March 2007.
- Training course on “PLC Applications in Automation”, organized by Industrial Consultancy Cell, G H Patel College of Engineering and Technology, 1 to 7 Sept, 2005.
- Training programme on “Industrial Oil Hydraulics”, organized by Mechanical Engineering Department, G H Patel College of Engineering and Technology, 16 to 20 July, 2001.

CONTRIBUTION IN EXTRA CURRICULAR ACTIVITIES

- Coordinator of M.E. Mechatronics programme at G H Patel College of Engineering and Technology.
- Coordinator of Final year B.E. Industrial Project in Mechatronics Department, 2011-2013.
- Member of Syllabus revision committee (UG) for Mechatronics branch at Gujarat Technological University.
- Coordinator of Syllabus revision committee (PG) for Mechatronics branch at Gujarat Technological University.
- Coordinator of Practical Examination of Mechanical branch at Gujarat Technological University (zone 3), A.Y. 2012-2013.
- Member of syllabus revision committee (UG) for Mechanical and Automobile Engineering at Gujarat Technological University.

EXPERT LECTURE DELIVERED

Expert Lectures on various topics like **Digital Image Processing, Advanced Machining Processes, Mechatronics Key of Future Technology, Focused Ion Beam (FIB) Micro/Nano Milling, Flatness Measurement using Optical Flat**, etc. delivered at following Institutions in various capacities:

- Gandhinagar Institute of Technology (GIT), Gujarat
- Govt. Engineering College, Morbi
- Govt. Engineering College, Dahod
- Vadodara Institute of Engineering, VIER, Gujarat
- Nirma University, Ahmedabad, Gujarat
- Team Lease University, Tarsali, Vadodara
- CHARUSAT, Changa, Gujarat
- Academic Staff College, Sardar Patel University, Vallabh Vidyanagar
- Production Engg Dept, BVM Engg College, TEQIP-II sponsored STTP on Manufacturing Process Modelling and Simulation, Gujarat
- Gujarat Technological University (Mid Semester Review), Ahmedabad, Gujarat

ADMINISTRATIVE WORK

- Served as a Convener of 20th Annual Day of G H Patel College of Engineering & Technology, 11-12 April 2016.
- Served as a Technical Coordinator of Under Graduate (UG) and Post Graduate (PG) 'Management Quota Admission Committee' for Academic Year 2013-14 for engineering institutions of Charutar Vidya Mandal (CVM).

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Life member of ISTE
- Associate member of Institution of Engineers (IEI, India)
- Member of IAENG (**I**nternational **A**ssociation of **E**ngineers), Hong Kong

CONFERENCES ATTENDED

1. 2nd International Conference on Industrial Engineering 2013 (ICIE-2013), Organized by Dept of Mechanical Engg., **Sardar Vallabhbhai National Institute of Technology, Surat (SVNIT)** – 395 007, Gujarat, India, 20-22 November 2013.
2. **All India Manufacturing Technology Design and Research Conference – 2010** (3rd International and 24th AIMTDR – 2010), Andhra University College of Engineering, **INDIA**.
3. **The 2009 International Conference of Mechanical Engineering (ICME'09)**, under World Congress on Engineering (**WCE 2009**), **LONDON, U.K.**, 1- 3 July 2009.