

## Qualification & Experience Details

### Dr. Sachin Nagorao Waghmare



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**Ph.D.** in Production Engineering VJTI Mumbai (2017).  
**M. Tech.** in Mechanical (Machine Design) VJTI Mumbai (2010) with **CPI 8.1**.  
**B. E. Mechanical, 64.40 % (First Class)** Government College of Engineering, Aurangabad (2000).  
**HSC** with **65.83 % (First Class)** from Aurangabad board (1996).  
**SSC** with **75.14 % (Distinction)** from Aurangabad board (1994).

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**Date of Birth:-** 01/09/1979

**Present Post:-** Associate Professor & HOD  
Mechanical Engineering Department,  
Rajendra Mane College of Engineering & Technology,  
Ambav(Devrukh), Tal. Sangmeshwar, Dist. Ratnagiri-415804

**Date of Joining:-** 20 January 2005.

**Address for Correspondance:** Sardal Chal, Infront of Nalawade-Kesarkar House, Bhuwad Colony, A/P-Devrukh, Tal.Sangmeshwar, Dist. Ratnagiri. PIN-415804.

**Email:-** waghmaresachin@rediffmail.com

**Contact No:-** 9404617579/9975726362

#### Areas of Interest

Machine Design, Reliability, Failure Mode Effect Analysis, Total Productive Maintenance Quality, Industrial Engineering and Manufacturing Processes.

**Experience**                      **Teaching = 17 years 06 months**    **Industry = 03**  
   **USSC = 15 years.**

#### Projects Guided

Number of Projects Guided at UG level.    **28**

#### Publications

International Journals                      **32**

International Conferences                      **08**

National Conferences                      **15**

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## QUALIFICATION DETAILS

Sr. No.	Qualification	Marks	Institute	Year
1	Ph.D. in Production Engineering	CPI 8.1 Course work	Veermata Jijabai Technological Institute, Mumbai.	2017
2	M. Tech. in Mechanical (Machine Design)	CPI 8.1.	Veermata Jijabai Technological Institute, Mumbai.	2010
3	B. E. Mechanical,	64.40 %	Government College of Engineering, Aurangabad	2000
4	HSC	65.83 %	Divisional Board, Aurangabad.	1996
5	SSC	75.14 %	Divisional Board, Aurangabad.	1994

## EXPERIENCE DETAILS

Sr. No.	Post	Nature of Appointment	Institute	Period	Duration
1	Lecturer	Adhoc (Regular)	Rajendra Mane College of Engineering & Technology, Ambav.	20/01/05 To 23/06/07	02 Yrs 05 months
2	Lecturer	USSC (Regular)	Rajendra Mane College of Engineering & Technology, Ambav.	24/06/07 To 06/09/10	03 Yrs 03 months
3	Senior Lecturer	USSC (Regular)	Rajendra Mane College of Engineering & Technology, Ambav.	07/09/10 To 17/12/17	07 Yrs 03 months
4	Associate Professor	USSC (Regular)	Rajendra Mane College of Engineering & Technology, Ambav.	18/12/17 To Till date	04 Yrs 01 months
5	HOD Mechanical Engineering	Regular	Rajendra Mane College of Engineering & Technology, Ambav.	15/05/17 To Till date	05 Yrs 01 months

**USSC Approved Experience 15 years & Adhoc Experience 02 Yrs 05 months**  
**Total Experience = 17 years 06 months.**

## International Journals

- 1 **S.N.Waghmare**, Rahul Dhawale, Dinesh Joshi & Vaibhav Kamble(2018), "PERFORMANCE ANALYSIS OF SINGLE CYLINDER FOUR STROKE ENGINE USING SWIRL CHAMBER INTAKE SYSTEM", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 04 | Apr-2018 , [www.irjet.net](http://www.irjet.net) p-ISSN: 2395-0072,pp.4259-4261.
- 2 **S N Waghmare**, S S Sawant, P N Gurav, P S Nivalkar & P M Sawant , (2018), " Analysis of Air Intake for Formula Student Race Car", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056, p-ISSN: 2395-0072, Volume: 05 Issue: 04 | Apr-2018 [www.irjet.net](http://www.irjet.net), pp.4254-4258.
- 3 S S Sawant, P N Gurav, P S Nivalkar & P M Sawant & Dr. S N Waghmare, (2018), "Design And Fabrication of Air Intake For FSAE Race Car", *National conference on Changing Technology and Rural Development -2017at RMCET, AMBAV & International Journal for Science and Advance Research In Technology, ISSN [ONLINE]: 2395-1052, pp.98-102.*
- 4 **Waghmare, S.N.**, Raut, D.N., Mahajan, S.K. and Bhamare, S.S. (2017) 'Validating FMEA & TPM constructs for SMEs in India: A structural equation modelling approach', *International Journal of Indian Culture and Business Management, Inderscience Publishers*, Vol. 14, No. 04, pp. 406–433.
- 5 **Waghmare, S.N.**, Raut, D.N., Mahajan, S.K. and Bhamare, S.S. (2017) 'Enhancing reliability and quality for SMEs in India by using failure mode effect analysis and total productive maintenance', *International Journal of Indian Culture and Business Management, Inderscience Publishers* Vol. 14, No. 01, pp. 044–064.
- 6 **Waghmare SN**, Raut DN, Mahajan SK and Bhamare SS (2016) "Improving reliability for SMES in India by using faults classification." *Indian Journal of Engineering*. ISSN 2319 – 7757 EISSN 2319 –7765, 2016, 13(33), 354-361 1 July 2016
- 7 **Waghmare, S. N.**, Raut, D. N., Mahajan, S. K., & Bhamare, S. S. (2015), "INVESTIGATION OF FMEA AND TPM FOR IMPROVED RELIABILITY AND QUALITY OF SMES." *International Journal of Development Research Vol. 05, Issue, 08, pp. 5255-5263, August, 2015.*
- 8 **Waghmare, S. N.**, Raut, D. N., Mahajan, S. K., & Bhamare, S. S. (2015), "The Strategic Framework for Integration of FMEA & TPM for Improved Reliability and Quality: A Literature Review." , *Journal of the International Association of Advanced Technology and Science*. Vol. 16, MARCH 2015, No. 12, ISSN-5563-1682.
- 9 **Waghmare, S. N.**, Raut, D. N., Mahajan, S. K., & Bhamare, S. S. (2014). Failure Mode Effect Analysis and Total Productive Maintenance: A Review. *International Journal of Innovative Research in Advanced Engineering (IJIRAE)*, 1(6), 183-203.
- 10 G. S. Jagushte, **S. N. Waghmare**, A. R. Suware (2017). "SELECTION OF THE PARAMETERS OF POLYMER MATRIX COMPOSITES FOR ENGINEERING APPLICATIONS", International Journal of Advance Research in Science and Engineering IJARSE (ISSN: 2319-8354) Vol. No.06, Issue No. 04, April 2017, 12-22.
- 11 **S N Waghmare**, N J Kamble, A S Dhamankar, A A Shinde & A D Vishwasrao (2017) Three Directional Dumping System for trolley/dumper: A Proposed Work. *IOSR*

*Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727 PP 69-71.*

- 12 **Waghmare S. N.**, Prabhavalkar M. S., & Dongare V. K. (2016) "DESIGN AND FABRICATION OF TURNING FIXTURE FOR CNC LATHE MACHINE", *Journal of Information and Computational Science* (ISSN: 1548-7741), Volume 10, Issue 6, 2017.
- 13 **Waghmare S.N.**, Dongare V.K. & Raut A.S. (2016) "DESIGN AND FABRICATION OF DRILLING CUM SAWING MACHINE", *International Journal of Advance Research in Science and Engineering IJARSE* (ISSN: 2319-8354) Volume No.05, Issue No. 08, August 2016, 13-19.
- 14 **Sachin N. Waghmare**, Suraj P. Mail, Pranav S. Nalawade, Digambar A. Mohite, Pranil D. Salunke (2016) "DESIGN AND ANALYSIS OF ELECTRICALLY POWERED MIXER FOR PHENYL", *International Journal of Advanced Technology in Engineering and Science (IJATES)* (ISSN: 2348-7550), Volume No 04, Special Issue No. 01, May 2016, 281-288.
- 15 **Sachin N Waghmare**, Nikhil S Karekar, Pankaj P Karande, Santosh B Pandhare (2016) "Design & Analysis for Intake System of Formula SAE Car", *International Journal of Engineering Technology, Management and Applied Sciences* [www.ijetmas.com](http://www.ijetmas.com) February 2016, Volume 4, Issue 2, ISSN 2349-4476, 116-121.
- 16 **S N Waghmare**, S P Mail, D A Mohite, P S Nalawade, P D Salunke (2016) "Electrically Operated Bi-directional Mixer: A Proposed Work", *International Journal of Research in Advent Technology*, Vol.4, No.2, February 2016, E-ISSN: 2321-9637, 11-13.
- 17 **S N Waghmare**, N S Karekar, P P Karande, & S B Pandhare (2016) "Intake System of Formula SAE Car: A Proposed Model", *International Journal of Trend in Research and Development*, ISSN: 2394-9331JTRD | Jan-Feb 2016 Volume 3(1), 146-147.
- 18 **Sachin N Waghmare**, Nikhil Sawant, Sneha Dhumal, Navnath Kedar, Prathmesh Patil & Prasad R Dambe (2015) "DESIGN AND ANALYSIS OF COMPACT STRETCHER WITH RUBBER SHOCK ABSORBERS", *Int. J. Engg. Res. & Sci. & Tech.* 2015 ISSN 2319-5991 [www.ijerst.com](http://www.ijerst.com), Vol. 4, No. 2, May 2015, 1-5.
- 19 **S N Waghmare**, M M Mestri, P V Lavekar, T S Misal, & P C Nalawade (2015) "MANUALLY OPERATED SPIRAL TUBE WATER WHEEL PUMP", *International Research Journal of Engineering and Technology (IRJET)* e-ISSN: 2395 -0056 p-ISSN: 2395-0072 [www.irjet.net](http://www.irjet.net) Volume: 02 Issue: 01 | Apr-2015 ,167-169.
- 20 **S N WAGHMARE**, N A SAWANT, S D DHUMAL, P G PATIL & N T KEDAR (2014) "COMPACT STRETCHER WITH SHOCK ABSORBERS: A PROPOSED MODEL", *Journal of The International Association of Advanced Technology and Science* ISSN-5563-1682 Vol. 15, NOVEMBER 2014 No. 13
- 21 **S N WAGHMARE**, M M MESTRI, P V LAVEKAR, T S MISAL & P C NALAWADE (2014) "SPIARL TUBE WATER WHEEL PUMP: A PROPOSED MODEL" *Journal of The International Association of Advanced Technology and Science* Vol. 15 | NOV 2014 ISSN-3347-4482, No. 09

- 22 Prabhavalkar M.S. & **Waghmare S N** (2014) "Optimization of Machining Parameters of M.S. in Vortex Tube Cooling", *International Journal of Research in Advent Technology*, Vol.2, No.6, June 2014, E-ISSN: 2321-9637, 226-229.
- 23 Sunit Jadhav, **S. N. Waghmare**, Suraj Dalvi & Vinit Kamble (2014) "Power Enhancement using Oxygen Enriched Air for Multi Cylinder Diesel Engine", *International Journal of Engineering Research & Technology (IJERT)* ISSN: 2278-0181 Vol. 3 Issue 4, April – 2014/1222-1226.
- 24 Shamal Indulkar, Sayali Dongare & **Sachin N Waghmare** (2014) "POWER ENHANCEMENT USING OXYGEN ENRICHED AIR: A CRITICAL REVIEW *International Journal of Advanced Engineering Technology* E-ISSN 0976-3945 Int J Adv Engg Tech/Vol. V/Issue II/April-June, 2014/14-17
- 25 **S N Waghmare** & M S Prabhavalkar (2013) "DESIGN AND FABRICATION OF GRAVITY ASSISTED FREE ENERGY PUMP", *Journal of Engineering Research and Studies* E-ISSN 0976-7916 JERS/Vol. IV/ Issue II/April-June, 2013/12-15
- 26 **Sachin N Waghmare**, V B Suryawanshi & S G Jadhav (2012) "DESIGN & MODELING OF SPRING BY DESIGN KNOWLEDGE REUSE", *International Journal of Advanced Engineering Technology*, E-ISSN 0976-3945 IJAET/Vol.III/Issue I/ January-March, 2012/392-397
- 27 Gorivale, **Dr. Waghmare S.N.** Gorade, Naik, Patil (2019) "Self-Propelled Spraying Machine: A Proposed Model" *International Journal for Research in Engineering Application and Management (IJREAM)*, ISSN : 2454-9150 Special Issue - CTRD – 2018,pp.31-34.
- 28 Phansopkar, **Dr. Waghmare S.N.** Gupta, Ughade, Bavdhane (2019) "Remote Controlled Agricultural Robot with Sowing Seed Mechanism: A Proposed System" *International Journal for Research in Engineering Application and Management (IJREAM)*, ISSN : 2454-9150 Special Issue - CTRD – 2018,pp.40-43
- 29 **Dr. S.N. Waghmare (2019), "Product Design Knowledge Reuse"**, *International Journal for Research in Engineering Application & Management (IJREAM)*, ISSN: 2454-9150 Vol-05, Issue-08, Nov 2019, pp.53-57.
- 30 **Dr. S.N. Waghmare (2019), "Design Reuse for Designing & Modelling of Helical Tension Spring"**, *The International journal of analytical and experimental modal analysis (IJAEMA)*, ISSN NO: 0886-9367, Volume XI, Issue XII, December/2019, pp.2313-2320.
- 31 **Dr. S.N. Waghmare (2019), "Expert System for Helical Torsion Spring Design"**, *Journal of Interdisciplinary Cycle Research (JICR)*, ISSN NO: 0022-1945, Volume XI, Issue XII, December/2019, PP.1547-1554.
- 32 **Dr. S.N. Waghmare (2020), "Spiral Spring Design & Modelling by Design Reuse The International journal of analytical and experimental modal analysis** ISSN NO:0886-9367 Volume XII, Issue XI, November/2020 **Page No:1766-1772.**

## International Conferences

- 1 **S.N. Waghmare**, D.N. Raut, S.K. Mahajan, S.S. Bhamare,(2016) "Improving Reliability for SMES in India by using Faults Classification" *Proceedings of International Conference on Trends in Industrial and Mechanical Engineering (ICTIME 2016)*, February 4-6, 2016 at MANIT, Bhopal, ISBN:978-93-84935-68-9, pp.49-56.
- 2 **S.N. Waghmare**, D.N. Raut, S.K. Mahajan, S.S. Bhamare,(2015) "Exploring linkages between TPM pillars to improve quality of SMEs in India" *Proceedings of International Conference on Industrial Engineering (ICIE2015)* on November 26-28, 2015 at SVNIT, Surat, ISBN:978-93-84935-56-6, pp.338-343
- 3 G. S. Jagushte, **S. N. Waghmare**, A. R. Suware (2017). "SELECTION OF THE PARAMETERS OF POLYMER MATRIX COMPOSITES FOR ENGINEERING APPLICATIONS", 7th International Conference on Recent Trends in Engineering, Science & Management (ICRTESM-17) ISBN : 978-93-86171-12-2 Genba Sopanrao Moze College Of Engineering, Balewadi-Baner, Pune 01st-2nd April 2017, pp. 60-70.
- 4 **Waghmare S. N.**, Prabhavalkar M. S., & Dongare V. K. (2016) "DESIGN AND FABRICATION OF TURNING FIXTURE FOR CNC LATHE MACHINE", *Proceedings of International Conference on Recent Trends in Engineering & Science (ICRTES-16)* ISBN : 978-93-86171-06-1, Shree Ramchandra College of Engineering, Pune (India), 29th-30th September 2016, pp. 304-310.
- 5 **Waghmare S.N.**, Dongare V.K. & Raut A.S. (2016) "DESIGN AND FABRICATION OF DRILLING CUM SAWING MACHINE", *Proceedings of 4th International Conference on Recent Trends in Engineering Science and Management (ICRTESM - 2016)* ISBN: 978-93-86171-01-6, The International Centre Goa, Panjim, Goa (India), 7<sup>th</sup> August 2016, pp.95-101.
- 6 **Sachin N. Waghmare**, Suraj P. Mail, Pranav S. Nalawade, Digambar A. Mohite, Pranil D. Salunke (2016) "DESIGN AND ANALYSIS OF ELECTRICALLY POWERED MIXER FOR PHENYL", *Proceedings of International Conference on Recent Innovations in Engineering and Management (ICRIEM-16)* ISBN: 978-81-932074-5-1 Dhananjay Mahadik Group of Institutions (BIMAT), Kolhapur, Maharashtra, India, 23rd March 2016, pp. 1134-1141.
- 7 **Sachin N Waghmare**, Nikhil S Karekar, Pankaj P Karande, Santosh B Pandhare (2016) "Design & Analysis for Intake System of Formula SAE Car", 2nd International Conference on Innovative Research in Engineering Science and Management (ESM-16) India Habitat Centre, New Delhi, India, 28-Feb-16.
- 8 **S N Waghmare**, V B Suryawanshi· M S Kirkire· M A Palsodkar (2010) "Product Design Knowledge Reuse" *Proceedings of 3rd International Conference on Advances in Mechanical Engineering (ICAME-2010)* January 4-6, 2010, at SVNIT, Surat, pp.753-757.



## National Conferences

- 1 **S N Waghmare**, N J Kamble, A S Dhamankar, A A Shinde & A D Vishwasrao (2016) Three Directional Dumping System for trolley/dumper: A Proposed Work. *National Conference "Changing Technology and Rural Development" CTRD 2k16, Rajendra Mane College of Engineering & Technology, Ambav, 16<sup>th</sup> -17<sup>th</sup> December 2016.*
- 2 **Waghmare S.N.**, Raut A.S. & Dongare V.K. (2015), "Knowledge & Experience Capture in Design", National Conference on Development and Innovations in Mechanical Engineering (DIME-2015), Tatyasaheb Kore Institute of Engineering and Technology, Warananagar, 30 July 2015.
- 3 **S N Waghmare**, V B Suryawanshi, S G Jadhav, & M S Kirkire (2010) "General Methodology for the Optimal Design of Passive Devices for Vibration Reduction in Mechanical Systems" National Conference on Recent Trends in Mechanical Engineering, Datta Meghe College of Engineering, Airoli, Navi Mumbai, 28<sup>th</sup> -29<sup>th</sup> August 2010, pp.332-337.
- 4 **S N Waghmare**, V B Suryawanshi, S G Jadhav, & M S Kirkire (2010) "Design of MEMS Knowledge and CBR Intelligence to Enable the Automatic Adaptation and Assembly Mechanical Systems", National Conference on Recent Trends in Mechanical Engineering, Datta Meghe College of Engineering, Airoli, Navi Mumbai, 28<sup>th</sup> -29<sup>th</sup> August 2010, pp.272-277.
- 5 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "Methodology for Integration of Process Planning and Scheduling Manufacturing Organization", *Proceedings of National Conference Emerging Trends in Engineering, Technology and Management, MS2K10, SSBT's College of Engineering and Technology, Bambhori, Jalgaon, 29<sup>th</sup> March 2010 pp. 316-319.*
- 6 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "An Autonomous Manufacturing Self-replicating Nano Machines", *Proceedings of National Conference Emerging Trends in Engineering, Technology and Management, MS2K10, SSBT's College of Engineering and Technology, Bambhori, Jalgaon, 29<sup>th</sup> March 2010 pp. 312-315.*
- 7 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "Advanced Maintenance Strategy for Power Plants Introducing Intelligent Maintenance Neuro-fuzzy System", *Proceedings of National Conference Emerging Trends in Engineering, Technology and Management, MS2K10, SSBT's College of Engineering and Technology, Bambhori, Jalgaon, 29<sup>th</sup> March 2010, pp. 305-311.*
- 8 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "Management of Energy Conservation", *Proceedings of AICTE Sponsored National Conference on Emerging Technological Trends, VNS Institutes of Technology, Bhopal(MP), 19<sup>th</sup> -20<sup>th</sup> March 2010, pp. 479-482.*
- 9 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "Solar Energy, Wind Energy Application for Household Impact on the Environmental Aspect", *Proceedings of AICTE Sponsored National Conference on Emerging Technological Trends, VNS Institutes of Technology, Bhopal(MP), 19<sup>th</sup> -20<sup>th</sup> March 2010, pp. 475-478.*

- 10 **S N Waghmare**, V B Suryawanshi, S G Jadhav & D V Malekar (2010) "Rapid Prototyping: a review" *Proceedings of University of Pune Sponsored 2<sup>nd</sup> National Conference Trends in Mechanical Engineering (TIME)* 5<sup>th</sup>-7<sup>th</sup> March 2010, A.G. Awate College of Engineering, Hadapsar, Pune, pp. 407-412.
- 11 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "Strategic methodology of planning for skill acquisition and a skill strategy for enhancing unskilled workers in manufacturing Technology", *Proceedings of University of Pune Sponsored 2<sup>nd</sup> National Conference Trends in Mechanical Engineering (TIME)* 5<sup>th</sup>-7<sup>th</sup> March 2010, A.G. Awate College of Engineering, Hadapsar, Pune, pp. 365-370.
- 12 S G Jadhav, **S N Waghmare** & Mrs. Revti Jadhav (2010) "Product Management and Product Marketing: A Mixed Concept", *Proceedings of University of Pune Sponsored 2<sup>nd</sup> National Conference Trends in Mechanical Engineering (TIME)* 5<sup>th</sup>-7<sup>th</sup> March 2010, A.G. Awate College of Engineering, Hadapsar, Pune, pp. 371-375.
- 13 Sawant Swaraj, Gurav Poonam, Nivalkar Pratiksha, Sawant Pranav , **Dr. Waghmare Sachin** (2017) "Design and Fabrication of Air Intake for FSAE Race Car", 2<sup>nd</sup> National conference on Changing Technology and Rural Development (CTRD2K17) organized by RMCET, Ambav on 22 December, 2017.
- 14 Gorivale, Gorade, Naik, Patil & **Dr. Waghmare S.N.** (2018) "Self-Propelled Spraying Machine: A Proposed Model" Paper presented at National Conference on Changing Technology and Rural Development (CTRD2K18) on 21/12/2018 at RMCET, Ambav.
- 15 Phansopkar, Gupta, Ughade, Bavdhane & **Dr. S.N. Waghmare** (2018) "Remote Controlled Agricultural Robot with Sowing Seed Mechanism: A Proposed System" Paper presented at National Conference on Changing Technology and Rural Development (CTRD2K18) on 21/12/2018 at RMCET, Ambav.

#### **LISTS OF STTP/WORKSHOPS/SEMINAR ATTENDED**

- A Two Week Workshop on, "Concepts and Advances in Quality and Reliability Management" Government Engineering College, Goa. 17<sup>th</sup>-28<sup>th</sup> Nov 2014
- A Two Week Workshop on, "Engineering Mechanics", Organized by IIT BOMBAY at FAMT, Ratnagiri. 26<sup>th</sup> Nov-6<sup>th</sup> Dec 2013.
- A Two Week Workshop on, "Introduction to Research Methodologies", Organized by IIT BOMBAY at FAMT, Ratnagiri. 25<sup>th</sup> June -4<sup>th</sup> July, 2012.
- A Two Week Workshop on, " Developing Teaching Competencies " , at National Institute of Technical Teachers Training & Research Extension Centre, Pune. 09<sup>th</sup> – 20<sup>th</sup> May 2005.
- A One Week Workshop on, "Finite Element Analysis using ANSYS 15.0" at Rajendra Mane College of Engineering & Technology, Ambav. 12 January -16 January 2015.
- A One Week Workshop on, "Philosophy of guiding for Excellence in Projects" 26<sup>th</sup> February- 02<sup>nd</sup> March 2014.
- A One Week Workshop on, "Recent Trends in Automobile Engineering" at Rajendra Mane College of Engineering & Technology, Ambav. 27/12/2011 to 31/12/2011.
- A One Week Workshop on, "Knowledge Management Issues & Challenges", Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat. 04<sup>th</sup> -08<sup>th</sup> January 2010.



- A One Week Workshop on, "Mission 10x – high Impact teaching Skills", SSPM's College of Engineering, Kankavali. 25<sup>th</sup> -29<sup>th</sup> May 2009.
- A Two Days participation in, "PhD Colloquium for Research Scholars in Production Engineering", at Veermata Jijabai Technological Institute (VJTI), Mumbai. 17<sup>th</sup> -18<sup>th</sup> March 2015.
- A Two Days Workshop on, "Research Methodology" at Rajendra Mane College of Engineering & Technology, Ambav. 5<sup>th</sup> -6<sup>th</sup> June 2014.
- A Two Days Workshop on, "Design & Analysis of Pressure Vessels", Gharda Institute of Technology, Lavel. 20/02/2011 to 21/02/2011.
- A Two Days Workshop on, "Mission 10x Advanced workshop on Learning Approach", Rajendra Mane College of Engineering & Technology, Ambav. 30/07/2009 to 31/07/2009
- A One Day Workshop on, "covering syllabus) for subject Strength of Materials", at D J Sanghvi, Mumbai. on 11<sup>th</sup> September 2014.
- A One Day Workshop on, "Outcome Based Education" at Rajendra Mane College of Engineering & Technology, Ambav. 12 July 2014.
- A One Day Workshop on, "VIBRATION ANALYSIS & DYNAMIC BALANCING" at Rajendra Mane College of Engineering & Technology 05<sup>th</sup> March 2011.
- A One Day Workshop on, "Quality & Research In Engineering Education", at Rajendra Mane College of Engineering & Technology, Ambav. 07 April 2008.
- One week workshop on "Advanced Mechatronics" at RMCET, Ambav during 20/08/2018 to 26/08/2018. The workshop was conducted by Prolific Systems and Technologies Pvt. Ltd. Pune.
- Successfully completed ½ FDP of one week NPTEL-AICTE Faculty Development Programme "Product Design using Value Engineering" during July-August 2019 and received Elite + Silver with a consolidated score of 75% during July-August 2019.
- Attended ISTE Approved One week STTP on "CAD Modeling using Autodesk Inventor" During 18<sup>th</sup> - 22<sup>nd</sup> November, 2019.
- Participated three days online Faculty Development Programme on "Exploring Research Challenges and Opportunities in Science & Technology", organized by the Department of Computer Engineering, Lokmanya Tilak College of Engineering from May 27 to May 29, 2020.
- Participated three days workshop on "NAAC Assessment and Accreditation Process: A Step by Step Process", held during 28<sup>th</sup>-30<sup>th</sup> May 2020 at Gates Institute of Technology Anantapuram (Dist), Andhra Pradesh, India.
- Attended One week Faculty Development Program on "Advanced Trends in Engineering" from 19<sup>th</sup>-23<sup>rd</sup> May, 2020 Organized by Department of Mechanical Engineering, Nagpur Institute of Technology, Nagpur In association with Institution of Engineers (India), Nagpur.
- Attended one week online Faculty Development Program on "OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE" from 11-15 May 2020 under Margdarshan Scheme of AICTE, New Delhi.
- Completed a one feel STTP on "Advanced Optimisation tools & Techniques for Researchers and Engineers", during 23<sup>rd</sup>-27<sup>th</sup> May 2020 Conducted by SKN Sinhgad College of Engineering, Pandharpur and sponsored by Punyashlok

- Ahilyadevi Holkar Sofapur University, Solapur.
- Participated in a Five Day Faculty Development Programme on “Recent Trends in Image Processing”, held during 15th-19th June 2020 by Department of Electronics and Communication Engineering at Gates Institute of Technology Anantapuram (Dist), Andhra Pradesh, India.
- Participated in the One Week Faculty Development Programme on 'Improving Teaching Learning Experience using Best Practices' held online from 15th June 2020 to 19th June 2020 at Dwarkadas J. Sanghvi College of Engineering Vile Parle (West), Mumbai - 400056.
- Completed One week Online Faculty Development Program (FDP) on “Exploring the Dimensions of Innovation, Incubation and Emerging Technologies to Embrace Post COVID Changes”, Organized by Department of Mechanical Engineering from 08th June to 12th June 2020 at Finolex Academy of Management & Technology, Ratnagiri.
- Attended the FDP on “A Journey into the Manufacturing Sector in India in view of Industry 4.0 practices and COVID-19” 9th to 13th June, 2020. Department of Production Engineering, Dwarkadas J. Sanghvi College of Engineering Vile Parle (West), Mumbai - 400056.
- Participated in the One Week Online Faculty Development Program on “Engineering Education & the Industry: A Post COVID-19 Perspective” held during 1 June, 2020 to 5 June, 2020 by Mechanical Engineering Department Rajiv Gandhi Institute of Technology, Mumbai.
- Completed Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" from April 20 - May 06, 2020 conducted by MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING TEACHING LEARNING CENTRE RAMANUJAN COLLEGE (UNIVERSITY OF DELHI).
- Participated in One Week Online Faculty Development Program on “Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation” conducted during May 25 – 29, 2020 & was organized by Department of Mechanical Engineering TERNA ENGINEERING COLLEGE PLOT NO. 12, SECTOR 22, NERUL, NAVI MUMBAI 400706.
- Participated and completed One Week Faculty Development Programme on „Research Opportunities in Advanced Manufacturing Processes“ from 22nd June, 2020 to 28th June, 2020 organized by Department of Mechanical Engineering, BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), COLLEGE OF ENGINEERING, PUNE.
- Participated in the Webinars on "OPPORTUNITIES FOR MECHANICAL ENGINEERS IN AI WORLD" and "JOURNEY OF EXCELLENCE THROUGH TPM" organized by Mechanical Engineering Department, G.S. Mandal's Maharashtra Institute of Technology, Aurangabad on 6th June 2020.
- Attended a one day online webinar on “Career Prospects in Mechanical Engineering after Covid -19 ” on Saturday, 30th May 2020 AGTI’S DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD AND GOVERNMENT COLLEGE OF ENGINEERING, KARAD DEPARTMENT OF MECHANICAL ENGINEERING (Under AICTE Margadarshan Scheme)
- Participated in the webinar on “Product Development and Prototyping” held on 12th May 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre

(BRTC).

- Participated in the webinar on “Intellectual Property Rights to Protect Innovations” held on 16th May 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC).
- Attended webinar on “Battery Modelling Simulation Using STARCCM+ Software” On 22nd May 2020 Department of Mechanical Engineering, Fr. Conceicao Rodrigues Institute of Technology, Vashi.
- Attended Webinar on “NAAC: Systematic Data Organization and Presentation”, 16th May, 2020 organized by IQAC, Vidyalkar Institute of Technology, Mumbai.
- Participated in Webinar on "RESPONSIBLE USE OF MEDICINES" held on 23rd May 2020 ST. FRANCIS INSTITUTE OF TECHNOLOGY Borivili (W), Mumbai - 400 103
- Completed One week Online Workshop on "Trends & Practices in Refrigeration & Air Conditioning" from 15th to 20th June 2020, Organized by ISHRAE Student Chapter at Mechanical Engineering Department Deogiri Institute of Engineering & Management Studies, Aurangabad.
- Participated in the live webinar on “Insight into Digital Education Ecosystem and its Scope for Startups” on 30th May 2020 organized by KIIT-Technology Business Incubator under K-Impactus.
- Participated in the Webinars on "VIRTUAL REALITY AND AUGMENTED REALITY: INTRODUCTION AND APPLICATIONS" and "ADDITIVE MANUFACTURING" organized by Mechanical Engineering Department, G.S. Mandal's Maharashtra Institute of Technology, Aurangabad on 14th June 2020.
- Participated in the AICTE Margadarshan Scheme sponsored webinar on “CO-PO Mapping”, on 29 May 2020 Shri Manakula Vinayagar Engineering College Puducherry 605107.
- Attended the online webinar on “Use of IoT in Industry 4.0” June 18 , 2020, organized by Dept. of E&TC, SIT, Lonavala.
- Attended Webinar Series on “Industrial Aspects of Thermal Engineering” in association with ISHRAE (Mumbai Chapter) from 13th June to 17th June 2020, by DEPARTMENT OF MECHANICAL ENGINEERING LOKMANYA TILAK COLLEGE OF ENGINEERING ,Navi Mumbai – 400709.
- Participated in the Webinars on on "MYTHS & TRUTHS ABOUT WORKING IN SALES !!! ", 13 June 2020 Department of Mechanical Engineering VIVA Institute of Technology Virar.
- Participated in the Webinars on “Design - Past, Present & Future”, 13 June 2020 organized by the Department of Mechanical Engineering, Shri Vile Parle Kelavani Mandal's, Dwarkadas J. Sanghvi College of Engineering, Mumbai.
- Successfully completed NPTEL Online Certification 12 week course on “Product Design and Manufacturing”, with score of 99% during Jan-Apr 2020.
- Successfully completed NPTEL Online Certification 12 week course on “NBA Accreditation and Teaching-Learning in Engineering (NATE)”, with score of 89% during Jan-Apr 2020.
- Participated and completed One week Faculty Development Programme on ‘Research in Energy Technologies’ from 6th July, 2020 to 11th July, 2020 organized by Department of Mechanical Engineering, BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), COLLEGE OF ENGINEERING, PUNE.
- Attended a National Level Webinar on “Intellectual Property Rights”, on 03/07/20 by Department of Management & Studies at Gates Institute of Technology Anantapuram (Dist), Andhra Pradesh, India.

- Attended webinar on “Vehicle Suspension Systems and Design” on 06/07/2020, organised by Department of Mechanical Engineering, Deogiri Institute of Engineering and Management Studies, Aurangabad in association with Gabriel India Ltd.
- Attended a National Level Webinar on “Sustainability in Product Design” on 05/07/2020, organized by Department of Mechanical Engineering , Deogiri institute of Engineering and Management Studies, Aurangabad .
- Participated in “5-day online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)” organized by NIT Patna during 21 - 25 September 2020.
- Participated 5-day Online Faculty Development Program on DEEKSHARAMBH (Student Induction Program) organized by NIT Patna during 10-14 August 2020.
- Participated A Seven day Online FDP on “RECENT TRENDS IN MANAGEMENT” from 13-July to 19-July, 2020 at Gates Institute of Technology ogy Anantapuram (Dist), Andhra Pradesh, India.
- Participated and successfully completed One Week AICTE - ISTE Approved Short Term Training Programme (STTP) on “Outcome Based Education & NBA” held from 29th June 2020 – 03rd July 2020 organized by R&D Cell & IQAC of Shree. L. R. Tiwari College of Engineering, Thane – 401107, Maharashtra, India.

### **SHORT TERM COURSES/ WORKSHOPS/ SEMINARS ORGANIZED**

1. Coordinator of one day workshop on “Maintenance of Engine and Gear Box of 4-S Petrol Engine”. 3 April 2017.
2. Co-Coordinator of workshop on Research Methodology. 5<sup>th</sup> -6<sup>th</sup> June 2014.
3. Coordinator of one day workshop on Bloom’s Taxonomy at RMCET in Nov 2014.
4. Coordinator of 1 week ISTE STTP on “ANSYS” Dec 2011
5. Convener of ISTE approved National level Technical Symposium “Scintilla 2k18” on 16-17 February 2018. More than 700 students from 15 different institutes participated in total 24 different events.
6. Coordinator and received a grant of Rs. 3, 00,000/- from AICTE-ISTE to conduct of one week AICTE-ISTE Induction/Refresher Programmes titled “Recent Advances in Computer Aided Engineering”.
7. Coordinator One Day Workshop on “NBA CRITERIA WISE GUIDANCE” on 01/10/2018
8. Coordinator of seminar on “GD & T and its Behavior in Design” on 16/10/2018.
9. Convener of ISTE Approved 3rd National Conference on “Changing Technology and Rural Development (CTRD 2k18)” on 21st December 2018. Total 70 Research papers have been registered for the conference.
10. Coordinator of seminar title of “Renewable Energy in Marine Environment” was organized on 02<sup>nd</sup> August, 2019
11. Coordinator of seminar on “Opportunities of Post Graduation in Abroad” on 02<sup>nd</sup> August, 2019
12. Coordinator of seminar on “Electrical Vehicle” on 17<sup>th</sup> October, 2019
13. Coordinator of ISTE Approved One week STTP on “CAD Modeling using Autodesk Inventor” on 18<sup>th</sup> to 22<sup>nd</sup> November, 2019.
14. Coordinator of seminar on “Quality Research Paper Publications (QRPP)” on 6<sup>th</sup> March 2019
15. Coordinator of seminar on “Career Opportunities in CAD/CAM/CAE” on 19/03/2019

16. Coordinator of workshop on “Creo Parametric 4.0” From 25/05/19 to 28/05/2019.
17. Coordinator of Seminar on “Introduction to Arduino” 06/02/2020.
18. Coordinator One day workshop on “Hands on Ardino-uno Programming” 03/03/2020.
19. Coordinator of webinar "BMS-MEP Engineering" on 29/08/2020
20. Coordinator of Webinar on “Opportunities in Software Industry for Mechanical Engineers” 13/02/2021.
21. Coordinator of Webinar on “Career Path for CAD & CAE Engineers in Crash and Safety Domain” 12/05/2021.
22. Coordinator of Webinar on “Future Jobs in Various Sectors of Industry” 21/08/2021
23. Coordinator of webinar on “Industrial Robotics & Intelligent Automation” 07/08/2021.

### **LECTURE/SEMINAR DELIVERED**

- Delivered an Expert Lecture on “Basics of Machine Design” for Third Year Mechanical Engineering students on 18 January 2018 at Government Polytechnic, Ratnagiri.
- Delivered an Expert Lecture on “Design of Machine Elements” for Third Year Mechanical & Automobile Engineering students on 30 January 2018 at Sahyadri Polytechnic, Sawarde
- Delivered expert lecture on “Basics of Machine Design” At Sahyadri Polytechnic Sawarde on 22/01/2019 for TY Mechanical and TY Automobile students. Total 95 students were present for the expert lecture.
- Delivered a seminar on “Importance of Higher Education” for Third Year Mechanical Engineering students on 20 January 2020 at Government Polytechnic, Malvan.
- Delivered a seminar on “Importance of Higher Education” for Third Year Mechanical Engineering students on 22 January 2020 at Yashwantrao Bhonsale Polytechnic, Sawantwadi.
- Delivered a seminar on “Importance of Higher Education” for Third Year Mechanical Engineering students on 05 March 2020 at Government Polytechnic, Ratnagiri.
- Delivered a seminar on “ 3D SCANNING & REVERSE ENGINEERING ” for Third Year Mechanical & Automobile Engineering students on 06 March 2020 at Sahyadri Polytechnic, Sawarde.

### **ADDITIONAL RESPONSIBILITIES HANDLED**

- Appointed as reviewer for International Journal of Trend in Research and Development (IJTRD), e-ISSN: 2394-9333 from March 2017.
- Appointed as reviewer for Global Research and Development Journals for Engineering (GRDJE) e-ISSN: 2455-5703 from March 2017.
- Worked as a reviewer for ISTE New Delhi approved National Conference on, “Changing Technology and Rural Development” (CTRDR 2016).
- Worked as a Joint Chief Conductor for University of Mumbai at Maharshi Parshuram College of Engineering, Velneshwar for 07 Days during 25<sup>th</sup> November-07<sup>th</sup> December 2013.
- Judge for Technical paper presentation competition on 14<sup>th</sup> March, 2012 at FAMT Ratnagiri.



- Editor of departmental Newsletter MECHANNEWS 13-14, 14-15.
- Sports Coordinator for college annual sports "AAROHAN 2K15".
- Sports Coordinator for college annual sports "AAROHAN 2K16".
- Event In charge for CAD MODELING event at National Tech fests Novateur 2012.
- Eassy Committee In-charge in Aarohan2k12, Aarohan2k13, Aarohan2k14,
- Oral Coordinator of the Department (2009 to 2015)
- Class Coordinator in the Department (2009 to 2014)
- Work as a member of Unfair Means Inquiry Committee for AY 2010-11, 2013-14
- Project Coordinator for AY 2010-11
- Lab. In charge for Strength of Materials Lab
- Departmental NBA Coordinator in year 2011-12, 13-14, 14-15
- Member of Seating Arrangement Committee during the 40th State Level Science Exhibition held at RMCET, Ambav during 17 January-21 January, 2015.

### **SUBJECTS TAUGHT**

- Engineering Mechanics
- Strength of Materials
- Machine Drawing
- Production Process-II
- Mechanical Engineering Measurement
- Internal Combustion Engines
- Machine Design-I