

PROFILE



1. **Name** **Dr. Sanjay Wasudevrao Rukhande**
2. **Designation** **Assistant Professor**
3. **Residential Address** Navi Mumbai 400703
4. **Date of birth** 15th April
5. **Total Teaching Experience** **21 Years**
6. **Qualifications**

Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
Ph.D.	2021	VJTI, Mumbai	Mechanical Engineering	...
M. E.	2008	SPCE, Mumbai University	Machine Design	74
B. E.	2000	GCOE, Amravati University	Mechanical	64

7. **Employment Record**

Institution	Year (From To)	Designation
Fr. CRIT, Vashi, Navi Mumbai	April 10 - till date	Assistant Professor
Fr. CRIT, Vashi, Navi Mumbai	Sept 07-Mar 10	Lecturer
SSJCOE, Dombivli, Dist: Thane	Aug 06-Aug 07	Lecturer
VPM Polytechnic, Thane	Aug 04- July 06	Lecturer
COHE, Andheri, Gnyaneswar Vidyapeeth, Pune	June 02- July 04	Lecturer
GCOE, Jalgaon, NM University, Jalgaon	Jan 01- June 01	Lecturer

8. Undergraduate / Postgraduate Teaching Experience and Subjects Taught
Subjects Taught at UG level

Sr. No.	Name of Subject	Semester
1.	Engineering Mechanics	I
2.	Engineering Drawing	II
3.	Machine Design - I	VI
4.	Machine Design - II	VII
5.	Finite Element Analysis	VIII
6.	Design of Mechanical System	VIII

Subjects Taught at PG level

Sr. No.	Name of Subject	Semester
1.	Fracture Mechanics	I
2.	FEA Lab	I
3..	CAD/CAM/CIM Lab	II

9. Research Funding / Consultancy Services:

Research Grants:

Sr. No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
1.	Mumbai University	Minor Research Grant	Rs. 30,000/-	2016	“Development of an experimental setup for testing quarter car model for ride comfort.”

10. Professional Societies Fellowship / Membership

1. Life Member for “The Indian Society for Technical Education (ISTE)”,
2. Life member of GYAN,
3. Annual membership of Society of Materials and Mechanical Engineers” (SOMME) 4-12-2019 to 03-12-2020

11 Research Interest

Wear and friction, Surface coatings, Oxidation, Machine design, Finite element analysis.

Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57212673149>

12. List of Journal Papers Published

1. **Sanjay W Rukhande**, W. S. Rathod, and Digvijay Bhosale, “Ni-based coating protection of 316L stainless steel at dry, elevated temperature and wet sliding condition”, **Materials Today: Proceedings**, published online 09 March 2022, **Elsevier publication**, CiteScore: 1.3,
<https://doi.org/10.1016/j.matpr.2022.02.584>
<https://www.sciencedirect.com/science/article/pii/S2214785322012457>
2. **Sanjay W Rukhande**, Swaraj Gujar and Rathod, W.S. “Sliding Wear Investigation of Ni-Based Coating and SS 316L for Hydraulic Fracturing Tools in Water-Diesel Condition”, **Journal of Failure Analysis and Prevention**, 25 February 2022, **Springer Nature**,
<https://doi.org/10.1007/s11668-022-01370-4>,
<https://link.springer.com/article/10.1007/s11668-022-01370-4>
3. **Sanjay W Rukhande** and Nikhil Kunder, “Tribological investigation of HVOF sprayed Ni-based coatings on SS 316L in water-cooled nuclear reactor”, **Materials Today: Proceedings**, published online 24 February 2022, **Elsevier publication**, CiteScore: 1.3,
<https://doi.org/10.1016/j.matpr.2022.02.210>,
<https://www.sciencedirect.com/science/article/pii/S2214785322008318>
4. **Sanjay W Rukhande** and Bile Ganesh, "Investigation of Friction and Sliding Wear for Journal Bearing Using Taguchi Optimization," in *4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE)*, 2021, **IEEE publication**, INSPEC Accession Number: 20995310 , pp. 1-7,
[doi: 10.1109/ICNTE51185.2021.9487703](https://doi.org/10.1109/ICNTE51185.2021.9487703).
5. **Sanjay W Rukhande**, Rathod, Walmik S. and Bhosale Digvijay G., “High-temperature tribological investigation of APS and HVOF sprayed NiCrBSiFe coatings on SS 316L” in **Tribology- Materials, Surfaces & Interfaces**, **Taylor and Francis**, Published online: 12 Apr 2021, **Impact Factor: 0.76**, **H index: 11**,
<http://dx.doi.org/10.1080/17515831.2021.1898887>
6. **Sanjay W. Rukhande**, Walmik S. Rathod; “Sliding wear investigation of Ni-based coating for high-temperature application”, **Tribology in Industry**, (**Journal of the**

7. **Sanjay W Rukhande**, and Rathod, Walmik S., “Tribological Behaviour of Plasma and HVOF-sprayed NiCrSiBFe Coatings”, in **Surface Engineering , Taylor and Francis** Volume 36, 2020 - Issue 7, Pages 745-755, <https://doi.org/10.1080/02670844.2020.1730062>.
8. **Sanjay W Rukhande** and Rathod, Walmik S., “An isothermal oxidation behaviour of atmospheric plasma and high-velocity oxy-fuel sprayed nickel based coating”, **Ceramics International , Elsevier publication** , Volume 46, Issue 11, Part B, 1 August 2020, Pages 18498-18506, <https://doi.org/10.1016/j.ceramint.2020.04.155>.
9. **Sanjay W Rukhande** and Rathod, Walmik S., “Dry Sliding Wear Behavior of HVOF Sprayed NiCrSiBFe Coating on SS 316L”, **Materials Today: Proceedings**, published online 18 September 2020. **Elsevier publication**, CiteScore: 1.3, <https://doi.org/10.1016/j.matpr.2020.08.408>
10. **Sanjay W Rukhande**, Digvijay G. Bhosale, Walmik S. Rathod; "High-temperature tribo-behaviour of Ni-alloy and WC-Cr₃C₂-Ni coatings for nuclear applications"; **Surfaces and Interfaces (2020)**, Elsevier. **Impact Factor: 3.724, H index: 16.** <https://doi.org/10.1016/j.surfin.2020.100689>
11. **Sanjay W Rukhande**, Digvijay G. Bhosale, Walmik S. Rathod; "Effect of counter faces on sliding wear behavior of WC-Cr₃C₂-Ni composite coating deposited by high velocity oxy fuel"; **Materials Today: Proceedings (2020)**; Elsevier. <https://doi.org/10.1016/j.matpr.2020.08.466>
12. **Sanjay W Rukhande**, Digvijay G. Bhosale, T. Ram Prabhu, Walmik S. Rathod; "High temperature erosion behaviour of SS 316L, APS and HVOF sprayed WC-Cr₃C₂-Ni coatings"; **Wear (2020)**, Elsevier, **Impact Factor: 4.108, H index: 150.** <https://doi.org/10.1016/j.wear.2020.203520>
13. **Sanjay W Rukhande**, Digvijay G. Bhosale, Walmik S. Rathod; "Sliding wear behavior of high velocity oxy-fuel sprayed WC-Cr₃C₂-Ni coating for automotive applications";

14. **Sanjay W. Rukhande** and Chirag Wani, “Vibration based detection of damage in fixed-fixed I-Beam using Particle Swarm Optimization” in an international conference “ICNTE 2019”, Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 4, 5 January 2019. <https://ieeexplore.ieee.org/document/8945820>
15. **Sanjay W. Rukhande** and Girish Dalvi, “Automated storage and Retrieval System”, in "International Research Journal of Engineering and Technology, (IRJET), Volume 4, Issue 1, January 2017 .ISSN : 2395-0056 (<https://www.irjet.net/archives/V4/i1/IRJET-V4I1111.pdf>)
16. **Sanjay W. Rukhande**, Manas Lad, Prabhat Mahamuni, Prachi Mandve and Savio Sequeria, “Design and Fabrication of Automated Shelves”, in "International Journal of Innovative Research in Technology, (IJIRT), Paper ID: 143382, Volume 2, Issue 11, April 2016. ISSN : 2349-6002 (https://www.ijirt.org/master/publishedpaper/IJIRT143382_PAPER.pdf)
17. **Sanjay W. Rukhande**, Suraj P. Nagabhushana, Prakash Thorat and Gourav Thombre “Two Phase Flow Analysis for Vertical Pipe”, in "International Journal of Innovative and Emerging Research in Engineering (IJIERE), Paper ID: 160091, Volume 2, Issue 2, Feb 2015. ISSN (Online) : 2394-3343, ISSN (Print): 2394-5494, <http://www.ijiere.com/DisplayPaper.aspx?id=160091&AspxAutoDetectCookieSupport=1>
18. **Sanjay W. Rukhande**, Nilesh V., Bipin M., Akshay V., Vishal M., Mayur K. and Amar Ingle, “Experimentation and Testing of an OP-AMP operated Solar Tracking Mechanism” in International Research Journal of Engineering and Technology (IRJET), Volume: 02 Issue: 07 | Oct-2015 ,ISSN: 2395-0056 (<https://www.irjet.net/archives/V2/i7/IRJET-V2I7120.pdf>)
19. **Sanjay W. Rukhande** and Nanaji Kshirsagar, “The Fault Diagnosis in Rolling Element Bearings- A Review”, in "International Journal Of Innovations In Mechanical And Automobile Engineering" (IJIMAE) / March-2012 / ISSUE-II / ISSN: 2249-2968

13. List of Papers Presented/Published in National and International Conferences International Conferences

1. **Rukhande, Sanjay W.** and Rathod Walmik S., “Ni-based coating protection of 316L stainless steel at dry, elevated temperature and wet sliding condition”, 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021), **IIT, Ropar**, India.
2. **Rukhande, Sanjay W.** and Nikhil Kunder., “Investigation of Ni-based coating on SS 316L in water cooled nuclear reactor”, 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021), **IIT, Ropar**, India.
3. **Rukhande, Sanjay W.** and Swaraj Gujar., “The surface properties enhancement using coating-: A Review”, 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021), **IIT, Ropar**, India.
4. **Rukhande, Sanjay W.**, Ganesh Bile and Rathod, Walmik S., “Investigation of friction and sliding wear for journal bearing using Taguchi optimization”, in an international conference “**ICNTE 2021**”, Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 15, 16 January 2021.
5. **Rukhande, Sanjay W.** and Rathod, Walmik S., “High-Velocity Oxy-Fuel sprayed Ni-based coating for isothermal oxidation”, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 19-20, 2020), **IIT, Ropar, India**.
6. **Sanjay W. Rukhande** and Walmik S. Rathod , “Dry Sliding Wear Behaviour of HVOF Sprayed NiCrSiBFe Coating on SS 316L” in an international conference “**AFTMME-2019**”, 7th international conference on Advancement and Futuristic Trends in Mechanical and Materials Engineering Organized by Indian Institute of Technology, Ropar, during 5 December to 7 December 2019.
7. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale , “Effect of Counter faces on Sliding Wear Behaviour of WC-Cr₃C₂-Ni composite coating deposited by High Velocity Oxy Fuel” in an international conference “**AFTMME-2019**”, 7th international conference on Advancement and Futuristic Trends in

Mechanical and Materials Engineering Organized by Indian Institute of Technology, Ropar, during 5 December to 7 December 2019.

8. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Sliding wear behavior of high velocity oxy fuel sprayed WC-Cr₃C₂-Ni coating for automotive applications” in an international conference on Manufacturing, Material science & Engineering, (**ICMMSE-2019**) conducted by the Department of Mechanical Engineering, CMR Institute of Technology, Hyderabad, Telangana during 16th & 17th August, 2019.
9. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Tribobehaviour of Plasma and HVOF Sprayed NiCrSiBFe Coating on SS 316L” in an international conference “**ICMPT-2019**”, Organized by Indian Institute of Technology, Madras, Chennai, India during 11 July to 13 July 2019.
10. **Sanjay W. Rukhande** and Chirag Wani, “Vibration based detection of damage in fixed-fixed I-Beam using Particle Swarm Optimization” in an international conference “**ICNTE 2019**”, Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 4, 5 January 2019. <https://ieeexplore.ieee.org/document/8945820>
11. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Tribological Behavior of Thermally Sprayed Coating- a review” in an international conference “**TRIBO INDIA 2018**”, Organized by Veermata Jijabai Institute of Technology, Matunga, Mumbai during 13 December to 15 December 2018.
12. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Wear and oxidation behavior of Tungsten Carbide based Coating- a review” in an international conference “**TRIBO INDIA 2018**”, Organized by Veermata Jijabai Institute of Technology, Matunga, Mumbai during 13 December to 15 December 2018.
13. **Sanjay W. Rukhande** and Walmik S. Rathod, “Indian Rail Track Investigation and Dynamic Analysis of Track Structure”, in international Conference on Advances in thermal Systems, Materials and Design Engineering “(ATSMDE 2017) at VJTI, Mumbai on 26th and 27th December 2017 (https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3101403)

14. **Sanjay W. Rukhande** and Aniket Shirke, “Parametric Optimization of Fused Deposition Modelling (FDM) Process Using PSO Algorithm”, in international Conference on Advances in thermal Systems, Materials and Design Engineering “(ATSMDE 2017) at VJTI, Mumbai on 26th and 27th December 2017. (https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3101978)

15. **Sanjay Rukhande**, Nikesh Ghude, Abhishek Malve, Kevin Kotian and Mohit Thawani, “Investigation of Muffler for Noise reduction” in international conference (**ICMTEST-2016**) Vishwatmak Om Gurudev college of Engineering at: Aghai, , Dist: Thane. on 9th April 2016 https://ijritcc.org/download/conferences/ICMTEST_2016/ICMTEST_2016_Track/1461912295_29-04-2016.pdf

16. **Sanjay Rukhande**, Zaid Shaikh, Sushant Ugale and Anuja Vekhande, “Muffler Modification for Noise Reduction”, in "International Conference on Civil, Mechanical, Biological& Medical Engineering, at Nagpur Organized by IRD India on 20th April, 2014, **ICMBME/** Volume II

17. **Sanjay Rukhande**, Nanaji Kshirsagar and Sachin Bhatt, “FE analysis of three strut ternity structure” in an international conference in **ICAET 2011**, EGS Pillai College of Engg, Nagapattinam, Tamilnadu, India, during May 27, 2011.

National Conferences

1. **Sanjay W Rukhande** and Walmik S Rathod, “Ni-based coating protection of 316L stainless steel against sliding” in National Conference organised by ASME, student chapter, Veermata Jijabai Technological Institute, Mumbai on 7th Feb 2021.

2. **Sanjay W. Rukhande**, Siddhesh Kulkarni, Aditya Patil and Noel Louis, “Investigation of Disc Brake Squeal using FE Simulation and Experimentation” in the National Conference on Sustainable Manufacturing & Waste Management (NCSMWM-2019) in Saraswati College of Engineering, Navi Mumbai on April 16, 2019 . (IJSER- ISSN 2229-5518) <https://www.ijser.org/onlineResearchPaperViewer.aspx?Investigation-of-Disc-Brake-Squeal-using-FE-Simulation-and-Experimentation.pdf>

3. **Sanjay Rukhande** and Nilesh Ghongade, “Three-Dimensional Geometric Model of Knee Implants by Reverse Engineering” in the National Conference on Technologies for physically challenged in Lokmanya Tilak College of Engineering, Navi Mumbai on October 13, 2012 (ISBN 978-81-924815-4-6)
4. **Sanjay Rukhande**, Shamim Pathan, Pratik Lahane, Vijay Patil, Devendra Mhatre, Ashish Gosavi, “Condition Monitoring for Fault Diagnosis of Bearings” in the Proceedings of the **NCNTE-2012**, Third Biennial National Conference on Nascent Technologies in Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Feb 24-25, 2012.
5. **Sanjay Rukhande**, Sachin Kulkarni, Sachin Mastud, “Design of a Spur Gear through Parametric Modeling Approach” in **SABBATICAL-2011**, at Bharat Ratna Indira Gandhi College of Engg. Solapur, Maharashtra, during March 26-27, 2011.
6. **Sanjay Rukhande**, Saikiran Garimella, “Design and Development of Savonious type Micro VAWT” in a national conference at PVPIT, Budhgaon, Sangli, Maharashtra on March 5, 2011.
7. **Sanjay Rukhande** and Sachin Bhatt, “Analysis for Form Finding of Three Strut Tensegrity Structure” in a national conference AMEE-2010, at Annasaheb Dange College of Engg. Ashta, Sangli, Maharashtra during July 2nd and 3rd, 2010.
8. **Sanjay Rukhande** and Shamim Pathan, “Design of Cold Storage using Nitrile Rubber” at Fr. C.R.I.T. Vashi, Navi Mumbai in **NCNTE 2010** during February 25 - 26, 2010.
9. **Sanjay Rukhande** and Bipin Mashilkar, “CFD Analysis for Heat Transfer Enhancement in a rectangular solar Air Heater Duct by using Artificial Roughness” in **NCSAME-2009** at JNTU University Hyderabad College of Engg. Hyderabad during August 20, 21, 2009.
10. **Sanjay Rukhande** and Vilas Kalamkar, “FE Analysis for Rail Wheel Assembly of EOT Crane” in **NUCONE 2008**, 3rd National Conference in Institute of Technology, Nirma University, Ahmedabad, Gujarat during 27-29 Nov 2008.

14. International Conference Technical Program Committee Member / Reviewer

1. Reviewer for papers in the international journal, “**Materials Science and Technology**”, ISSN: 0267-0836 (print version); 1743-2847 (online version), <https://www.tandfonline.com/journals/ymst20>, April-2022.
2. Reviewer for papers in the international journal, “**Tribology - Materials, Surfaces & Interfaces**”, ISSN: 1751-5831 (print version); 1751-584X (online version), <https://www.tandfonline.com/toc/ytrb20>, Mar-2022.
3. Reviewer for papers in the international journal, “**Tribology in industry**”, ISSN:0345-8996 (print version); 2217-7965 (online version), www.tribology.rs, Nov-2021.
4. Reviewer for papers in the IEEE Conference on Technologies for Future Cities 2021, organized by Pillai college of Engineering, Panvel, Navi Mumbai on October 8 – 9 , 2021.
5. Reviewer for papers of the 2nd Biennial International conference on “Nascent Technologies in Engineering”, organized by Fr. CRIT, Vashi, Navi Mumbai in association with IEEE on January 27- 28, 2017.
6. Technical Program Committee Member at an international Conference on Advances in thermal Systems, Materials and Design Engineering “(ATSMDE 2017) at VJTI, Mumbai on 26th and 27th December 2017
7. Reviewer for papers at an international conference “ICNTE 2019”, Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 4th, 5th January 2019.
8. Reviewer for papers at an international conference “ICNTE 2021”, Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 15th, 16th January 2021.

15. Projects guided in UG/PG level

UG Level:

1. "Tribological behaviour of dental composites" , (Nitin Raina et al, 2021)
2. "Simulation and experimental analysis of rope sheave interaction of Quay Cranes", (Ganesh Patil et al., 2020)
3. "Tribological behaviour of dental composites considering the effects of tobacco products", (Hemant Agrawal et al. 2020)
4. "Experimentation and simulation of Disc Brake Squeal", (Aditya Patil et al, 2019)
5. "Analysis and experimentation on friction welded joint" (Sagar Garje et al , 2018)
6. "Trailing edge simulations of NACA 0012 airfoil in ANSYS FLUENT © and OPENFOAM" (Jim J. Kurian et al, 2017)
7. "Design and Fabrication of Automated Shelves' (Manas Lad, et al, 2016)
8. "Investigation of Muffler for Noise Reduction" (Kevin Kotian, et al, 2016)
9. "The design and analysis of magnetic coupling" (Sonal Batra, et al, 2015)
10. "Two Phase Flow Analysis" (Suraj P.N., et al , 2015)
11. "Muffler modification for Noise Reduction", (Sushant Ugale , et al, 2014)
12. "Design and Fabrication of Electro Pneumatic Gear Shifting mechanism", (Danish Arshad, et al,2014)
13. "Design Analysis and Fabrication of Telescopic Conveyor", (Amol Kadam, et al, 2013)
14. "Design and Analysis of Pulse Jet Engine", (Swapnil Ghadshi , et al, 2013)
15. "Measurement of performance parameter of Internal Combustion Engine using Virtual Instrumentation", (Nitin Bansal, et al, 2013)
16. "Condition monitoring for fault diagnosis of Bearings", (Pratik Lahane, et al, 2012)
17. "Design and Analysis of Solar Operated Air Cooler" (Suhas dhawale , et al , 2012)
18. "Design and Development of Micro Savonius Type Vertical Axis Wind Turbine", (Pratik Kale, et al, 2012)
19. "Design and Development of Micro Savonius Type Vertical Axis Wind Turbine", (Saikiran Garimella, et al, 2011)
20. "Design and development of steering mechanism for an ATV and feasibility of application of touch sensitive pad technology for steering actuation" (Shridhar C., et al, 2010)
21. "Study and modification of air brake system in diesel locomotive", (Sreejit Nair, et al, 2009)
22. "Heat pipe embedded solar operated vapour absorption system" (Alexander Rohit, et al, 2008)

PG Level:

1. Investigation of wear behavior of SS316L and Ni-based coating for hydraulic fracturing tools : (Swaraj Gujar , 2022)

2. Investigation of Ni-based coatings on SS 316L in water cooled nuclear reactor : (Nikhil Kundar, 2021)
3. Investigation of friction and sliding wear for journal bearing using Taguchi optimization : (Ganesh Bile, 2020)
4. "Damage detection of Fixed-Fixed Beam using Particle Swarm Optimization." (Chirag G. Wani, 2018)
5. "Parametric Optimization of Fused Deposition Modelling (FDM) Process Using PSO Algorithm" (Aniket Shirke , 2017)
6. "Experimental and Simulation Study to Reduce Engine Silencer Noise", Co-guide (Abhijit B. Waghmode, 2017)

16. Short Term Training Programmes attended

1. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "**Multi-Disciplinary Design Optimisation in Engineering: Advanced**", from 21st February 2022 to 25th February 2022, Organized by IIT Kharagpur.
2. Participated & completed successfully, one week faculty development program on "**Advanced Materials Processing**", organized by Finolex Academy of Management and Technology, Ratnagiri from February 21-25, 2022.
3. Participated & completed successfully, AICTE/ISTE Sponsored Induction/Refresher Program on "**Advances in Materials Processing and Characterization**", organized by DAVIET Jalandhar from January 05-11, 2022.
4. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "**Damage Tolerance: A New Design Strategy**", from 5th July 2021 to 9th July 2021, at Department of Mechanical Engineering, VJTI, Mumbai.
5. Participated and successfully completed the TEQIP III sponsored National Level Workshop on '**Static and Fatigue Analysis of Engineering System using ANSYS**' jointly organised by SPCE, Mumbai and REC Rewa in collaboration with IIIE and SAE India Western Section from 23rd February to 28th February 2021 under Twinning Activity.

6. Participated in the **IEI BLC-FCRIT Excellence Award** for recognition of **Research Excellence (Faculty- Regional)**. The award has been jointly organised by The Institution of Engineers (India), Belapur Local Center and Fr. C. Rodrigues Institute of Technology, Vashi during ICNTE 2021, held at Fr. C. Rodrigues Institute of Technology, Vashi on January 16, 2021.
7. Successfully completed National Level Online Workshop on “**LaTeX**” organised by the IQAC Cell of Amity School of Engineering and Technology & Amity School of Applied Sciences from 18th December 2020 to 20th December 2020.
8. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "**Electric Vehicles**" from 2020-11-2 to 2020-11-6 at Fr.C.Rodrigues Institute of Technology, Vashi, Navi Mumbai.
9. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "**Novel Materials**" from 2020-10-5 to 2020-10-9 at Pillai college of Engineering, New Panvel, Navi Mumbai.
10. Successfully completed a webinar on “Effective Technical Presentation using PowerPoint on 8th August 2020 organised by The IEI BLC in association with Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.
11. Attended a Webinar on “**Learning Management System**” on 11/07/2020. The event included demonstration and hands-on training through the interactive online platform MS Teams.
12. Successfully completing 3-day “**PRANA YOGA workshop**” on 24, 25, 26th June, 2020 organized by NSS unit of Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai.
13. Successfully completed 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, Nerul, Navi Mumbai

14. Successfully completed one week online Short Term Training Programing on **'Patenting for Innovations'** organized between 25-29 May 2020 by Department of Mechanical Engineering of Sanjivani College of Engineering Kopargaon.
15. Attended Online Industrial Concepts Awareness Module on **"Bearings – Failures & Maintenance"**, from 23rd to 24th May 2020 as part of Campus to Corporate Initiative organised by Theia New Consultancy LLP and Fr. CRIT, Vashi, Navi Mumbai
16. Conducted Orientation Program on **"Design of Mechanical System"**, Sem VIII (CBCGS) at Fr. CRIT, Vashi on 23 January 2020 for faculty members from various Institute of Mumbai University.
17. Attended the TEQIP approved one week faculty development programme on **"Advances in Smart Manufacturing Technologies"**, organized by the Production Engineering Department, VJTI, Mumbai during December 30th – January 4th, 2020.
18. Attended the TEQIP approved one week faculty development programme on **"Characterization & Analysis of Materials"** organized by the Textile Manufactures Department, VJTI, Mumbai during December 23rd – 28th, 2019.
19. Successfully completed NPTEL online certification for the course **"Fundamentals of Surface Engineering: Mechanism, Processes and Characterizations"** with a consolidated score of 83%, July – October 2019.
20. Attended the AICTE approved (under QIP) one week short term course on **"Research Methodology for Engineering and Management Research"** organized by VJTI, Mumbai during July 9th – 14th, 2018.
21. Successfully completed PG Level Part-time Course (ME616) **"Fracture Mechanics"**, in Indian Institute of Technology, Bombay, during the semester January –April 2018.
22. Attended one-week AICTE- QIP sponsored Faculty development program on **" Fundamentals and applications of Fracture Mechanics"** Organized by VJTI, Mumbai during January 22nd – 27th, 2018.

23. Attended one week AICTE- QIP sponsored short term course on "**Research Methodology**" Organized by VJTI, Mumbai during March 4th – 9th, 2017.
24. Reviewer for papers of the 2nd Biennial International conference on "**Nascent Technologies in Engineering**", organized by Fr. CRIT, Vashi, Navi Mumbai in association with IEEE on January 27- 28, 2017.
25. Attended one-day workshop in association with BARC, IIT Bombay, Indian Railway and SVR Info Tech on "**VSSC ISRO's FEAST SMT FEA TECHNOLOGY**", jointly organized by ISRO and VJTI, Mumbai on November 8, 2016.
26. Attended one week QIP Short Term Course on "**Industrial Tribology**", conducted by VJTI, Mumbai from 4th to 8th July, 2016 under Global Initiative for Academic Networks (GIAN).
27. Conducted Orientation Program on "**Machine Design-II**", Sem VII (CBSGS) at Fr. CRIT, Vashi on 29 August 2015 for faculty members from various Institute of Mumbai University.
28. Conducted Orientation Program on "**Finite Element Analysis**" Sem VI (CBSGS) at Fr. CRIT, Vashi on 4 Feb 2015 for faculty members from various Institute of Mumbai University.
29. Attended one day faculty development program titled "**Altair Hyper works and 3 D printing**" organized by Fr. CRIT, Vashi on February 10, 2015.
30. Attended six-day faculty development program on "**Communication Skill**" organized by Fr. CRIT, Vashi, from October 3, 2013 to October 9, 2013
31. Attended one week QIP Short Term Course on "**Finite Element Methods and application in Civil Engineering**", conducted by IIT, Bombay at Mumbai from July 1, 2013 to July 05, 2013.
32. Attended AICTE sponsored S.T.T.P. on "**Hyperform - Hypermesh Software Training**" at SVNIT, Surat during January 05- 09, 2009.

33. Attended S.T.T.P. on “**Sound and Vibration: Fundamentals, measurements and Diagnostic Analysis**” at IIT, Roorkee, Uttarakhand, during July 06- 10, 2009.
34. Attended Engineering Tools and Techniques Course “**Imagineering Connect**” in L&T, Mumbai from June 02 to 20, 2008.
35. Attended AICTE sponsored S.T.T.P. on “**Emerging Trend in Refrigeration and Air Conditioning (ETIRAC)-2007**” in Fr. C.R.I.T. Vashi, from November 12-16, 2007.
36. Attended workshop on “**Computational Fluid Dynamics Research and Industrial Applications**” at SPCE, Mumbai, on March 24, 2007.
37. Participated in National Seminar on “**Alternate Energy Sources**” Organized by VPM’s Polytechnic, Thane on August 27-28, 2005.

17. Extra-Curricular activities:

1. Worked as an expert panel member for the “**National Level BE Projects Competition 2020-21**” organized by the Department of Mechanical & Automobile Engineering, Pillai College of engineering, Panvel on 16th & 17th April 2021.
2. Worked as a judge for a state level technical paper presentation and quiz competition, **Technocrat 2021**, held at Fr. Agnel Polytechnic, Vashi on 14th and 15th May 2021.
3. Delivered an expert guest lecture on “**Design based on Fracture Mechanics**”, at Agnel Technical College (Polytechnic) Bandra west, Mumbai on 15/05/2021.
4. Worked as a judge for the 6th National Level Project Showcase-“**Vidyavardhini's National Project Showcase (VNPS) 2021**”, at VCET, Vasai on 14th May 2021.

18 Work responsibility :

1. Institute NAAC coordinator
2. Department PG/PhD coordinator
3. Department working committee member
4. NAAC Criteria 6 coordinator
5. Department NAAC coordinator.
6. Worked as Chief Conductor of examination.
7. Worked as exam cell member and In-charge from 2007 to 2017.
8. Examiner, moderator and Paper setter in Mumbai University.

9. Member of organizing and technical committee in ICNTE.

10. Worked as time table In-charge.