



Dr. Vikas M. Phalle

Dean RDC and Associate Professor, Mechanical Engineering Department
Former Head, Mechanical Engineering Department, QIP Coordinator
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Received a prestigious Government of India National Award; 'AICTE Visvesvaraya Best Teacher Award 2021' And Mumbai University 'Best Teacher Award 2021-22'

1. Educational Qualifications :

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|--------------------------------|-------------|------|--------------------------------|
| • Ph.D. | Mechanical | 2011 | I.I.T. Roorkee |
| • M.E. (1 st Class) | Mech. Engg. | 2004 | VJTI Mumbai University, Mumbai |
| • B.E. (1 st Class) | Mech. Engg. | 1993 | Shivaji University, Kolhapur |

2. Employment Details :

24 th May 2022 to 28 th May 2023	Faculty In-charge (Finance)	V.J.T.I. Mumbai
August 2021 to till date	Faculty In-charge M Tech Defence Tech	V.J.T.I. Mumbai
August 2012 to till date	QIP (Minor) Center Coordinator	V.J.T.I. Mumbai
20 th June 2014 to 30 th August 2018	Prof. In-charge Training and Placement	V.J.T.I. Mumbai
1 st Aug. 2014 to 31 st January 2018	Prof. In-charge Training and Placement	V.J.T.I. Mumbai
1 st Aug. 2012 to 31 st July 2014	Head, Mech. Engg. Dept.	V.J.T.I. Mumbai
5 th July 2009 to till date	Associate Professor	V.J.T.I. Mumbai
1 st Jan 2006 to 4 th July 2009	Assistant Professor	V.J.T.I. Mumbai
31 st March 2000 to 2005	Lecturer	V.J.T.I. Mumbai
2 nd August 1994 to 30 th March 2000	Lecturer	B.V.C.O.E. Navi Mumbai

3. **Area of Research :** Machine Design, Tribology, Bearing and Vibration, Design of Experiments, CFD, Digital Twin, AI/ML.

4. **Visiting Professor** – Mechanical Engineering Department, Texas A& M University (TAMU) College station, Texas, Host faculty Dr. J N Reddy Professor in Mechanical Department. 19th December 2018 to 13th January 2019 (25 days)

5. **Teaching / Research Experience:** 30/20 years

25 Years Completed in VJTI on 30th March 2025

6. **Ph. D. Thesis Title:** 'Influence of Wear on the Performance of Multirecess Fluid Film Journal Bearings', Supervisor- **Dr. Satish C. Sharma, Indian Institute of Technology, Roorkee (IIT Roorkee)** Year 2011

Orchid Id: <https://orcid.org/0000-0003-0475-702X>

Scopus Id: <https://www.scopus.com/authid/detail.uri?authorId=36133497400>

Documents by author- 67, Citations by 665 documents- 530, h-index: 14

Publons Id: <https://publons.com/researcher/2974853/vikas-m-phalle/>

PUBLICATIONS - 37, TOTAL TIMES CITED- 395, H-INDEX- 12

Web of Science Researcher ID: [AAI-3291-2020](https://orcid.org/0000-0003-0475-702X)

PUBLICATIONS - 31, TOTAL TIMES CITED- 290, H-INDEX-9

Vidwan Id: <https://vidwan.inflibnet.ac.in/profile/199226> (Vidwan-ID : 199226)

ARTICLES- 37, CONFERENCES- 32 ,PROJECTS- 32 , AWARDS- 4

Google scholar: <https://scholar.google.co.in/citations?user=7gZBu3sAAAAJ&hl=en&oi=ao>

Research Publications:

(i) International Refereed Journals	-	56*
(ii) Book Chapters	-	03
(iii) National Refereed Journals	-	03*
(iv) Proceedings of International conferences	-	116
(v) Proceedings of National conferences	-	16

Total number of publications = **190**

*Papers Published in the Following Journals:

- ASME Jr. of Tribology (ASME)
- Tribology International (Elsevier)
- Industrial Lubrication and Tribology (Emerald)
- Friction (Springer)
- Iranian Rehabilitation Journal
- Tribology in Industry
- Journal of IMechE, Part J: Journal of Engineering Tribology
- Indian Journal of Tribology
- Energy and Buildings (Elsevier)
- International Journal of Engineering, science and technology

Citation indices	All	Since 2020
Citations	1165	759
h-index	19	15
i10-index	26	21

8. Research Guidance :

	<u>Awarded</u>	<u>In Progress</u>
Ph. D.	09	04
M.Tech.	72	02
B.Tech. Project	36	02
T. Y. B Tech Internship	35	07
JRF	01	

7. Courses Taught:

Course

PG Level:

M.Tech.(SEM-II)	Design of power transmission system
M.Tech.(SEM-II)	Advance Machine Design
M.Tech.(SEM-I)	Tribology, Industrial Tribology

UG Level:

B.E.(SEM-VII/VIII)	Machine Design I, Machine Design II
T.E.(SEM-V/VI)	Engineering Design, Theory of Machine,
	Design of Machine Elements, Mechanical Vibration
S.E.(SEM-III/IV)	Machine Drawing, Kinematics of Machinery
S.E. (Sem-V)Prod.	Theory of Machine

10. Administrative Experience:

Sr No	Post	Period	Duration in Years
i)	Associate Dean Educational Outreach	27 th November 2023	2
ii)	ICC committee member	26 th November 2024	
iii)	Women Development cell member	26 th November 2024	

iv)	Faculty In-charge (Finance)	24 th May 2022 to 29 th May 2023	1
v)	AICTE-IDEA Lab Network (PI) (IDEA Idealab ID –	10 th Feb 2025	

	IDEA202000302)		
vi)	AICTE VJTI PG Coordinator	11 th July 2022 to till today	2+
vii)	Faculty In-charge for NIRE, NAAC	24 th October 2018 to till date	6+
viii)	Member of Department Academic Committee (DAC) Mech Dept	September 2023 to till date	2+
ix)	Faculty In-charge for NBA	24 th October 2018 to 10 th February 2023	4 years 4 months
x)	Faculty In-charge for AICTE, DTE Mumbai University	24 th October 2018 to till today	6+
xi)	Coordinator of Scheme for promotion of academic and research collaboration (SPARC) DST Delhi	November 2018 to November 2020	2
xii)	Coordinator National Doctoral Fellowship (ADF/NDF) AICTE New Delhi	23 February 2018 to till date	6+
xiii)	QIP Center Co-ordinator(F.No. RIFD/QIP/Govt./2011 Dated 27.08.2012)	Aug. 2012 to till date	13+
xiv)	Margdarshan scheme Coordinator AICTE approved	June 2024 to till date	1
xv)	Professor In-charge Training and placement office (TPO)	Aug. 2014 to January 2018, 20 th June 2018 to 30 th August 2018	3 Yrs 8 Months
xvi)	Head, Mechanical Engineering Dept. VJTI Mumbai	Aug. 2012 to July 2014	2
xvii)	Member of Ph.D. Affairs Committee, VJTI	Aug. 2012 to July 2023	13
xviii)	Member of institute level Unfair Means Committee	July 2023 to till today	1+
xix)	AICTE Margdarshan scheme Coordinator (PI)	June 2017 to June 2020	3
xx)	TEQIP-II Procurement Coordinator and CoE Procurement coordinator	22 Aug. 2012 to July 2017	5
xxi)	Ph. D. Admission In-charge VJTI, Mumbai	2012- 2013, 2018-till date	7
xxii)	Chairman Scrap Removal Committee VJTI Mumbai	Aug. 2012 to July 2014	2
xxiii)	TEQIP-II Department Coordinator	2012- 2013	1
xxiv)	Staff Advisor- M. Tech. (Machine Design)	2012 - 2013	1
xxv)	M.Tech Admission VJTI, Mumbai	2005 – 2007	3
xxvi)	Coordinator MBA-MCA Admission (DTE, Mumbai)	2006 – 2007	1
xxvii)	Examination Coordinator VJTI, (result declared in 35 days)	2004 – 2006	2
xxviii)	Centralized First year Admission, (DTE, Mumbai)	2000 – 2002	2
xxix)	Warden, Student Hostel (B.V.C.O.E. Navi Mumbai)	1998 – 2000	2

11. Books Published/ Patents/ Monographs

- Book compiled titled “TRIBOINDIA2018- Technical Book of Abstracts” Publisher Mechanical Engineering Department VJTI Mumbai. This is official technical book of abstract book of TRIBOINDIA2018-An International Conference on Tribology organized by Veermata Jijabai Technological Institute under the agies of Tribology Society of India ISBN Number 978-93-5346-812-5, pp-1-175, 2019.

- Book compiled titled “VJTI Ph. D. RESEARCH COLLOQUIUM Technical Book of Abstracts” Publisher VJTI Mumbai. This book contains articles of VJTI Ph D students research work which will be presented in VJTI research Ph D Colloquium on 2019, 11th and 12th April 2019 at VJTI Mumbai 2019. ISBN Number 978-93-5361-213-9, pp-1-488, 2019.

Monographs

- Introduction to Tribology
- Laboratory Manuals Prepared
- Vibration Lab, Advanced Machine Design Lab, Tribology Lab
- **Patent (01)**

12. Product Development

- 1) M Tech Project for Nozzle development for KSB Pumps, Pune.
- 2) MoU has signed between Kirloskar Pneumatic Co. Ltd. (KPCL) and Indian Institute of Science (IISc) funded by the Ministry of Heavy Industry (MHI) Government of India for development of Design and Testing of Hybrid/Hydrostatic Bearings of a Water Injected Screw Compressor from 27/02/2024 for the period of one year. Product has been developed and transferred to KPCL Pune.

13. Honored/Appreciations:

- **Received a prestigious Government of India National award AICTE Visvesvaraya Best Teacher Award 2021' on 5th September 2021 by the hands of Hon. Union Education Minister Dharmendra Pradhan and Minister of State for Education, Dr. Rajkumar Ranjan Singh.**

Cash Prize amount - Rs. 25000/-

(<https://newsonair.com/2021/09/05/education-minister-dharmendra-pradhan-confers-aicte-visvesvaraya-best-teacher-award/#:~:text=Education%20Minister%20Dharmendra%20Pradhan%20confer%20AICTE%2D%20Visvesvaraya%20Best%20Teacher%20Award,-By%20AIR%20News&text=Union%20Education%20Minister%20Dharmendra%20Pradhan,a%20function%20in%20New%20Delhi.>)

- **Received a prestigious Mumbai University award ‘Best Teacher Award 2021-22’ on 5th September 2023 by the hands of Hon. Former Mumbai University Vice Chancellor Dr Suhas Pednekar and Present Vice-Chancellor Mumbai University Dr. R D Kulkarni. And Cash Prize amount - Rs. 5000/-**
- **Best Researcher Award, 10th April 2025, by Veermata Jijabai Technological Institute (VJTI) Mumbai Maharashtra**
- **DEWANG MEHTA National Education Awards as “Best Professor In Mechanical Engineering Studies” 27th Business School Affaire on 22nd November 2019 at Taj Lands End Mumbai.**
- **Philippe Lebon Education Excellence Award 2022 in recognition of the Superior Performance in MECHANICAL ENGINEERING by the International Multidisciplinary Research Foundation IMRF (Membership no: 22099,) on 26th January 2022. Hosted at HQ of IMRF Vijaywada AP.**
- **LITERATI AWARDS 2020, Awards for excellence as OUTSTANDING PAPER in the year 2020: An International Award by emerald PUBLISHING USA**
- **Recognized as a Mentor for the faculties/teachers by the AICTE New Delhi**
- **Recognized as a Margdarshak for the Army Institute of Engineering Pune by the AICTE New Delhi**

- **Best Paper Awards**

- o Deore Mansi, Raja Jayendiran, Venkat Perumal, **V M Phalle**, 2024 Fluid-Structure analysis of blood flow in an occluded deformable arteries, 1st Symposium on Bio-tribology & Related Medical Devices, 3-4 June 2024, IIT Delhi, New Delhi, India. (Best Paper Award)
- o Sahil V., Jalaj K., U.S. Gupta, G. A. Raju, S. Ahmed, I. Balasundar, **Vikas Phalle**, Vibration Fatigue Analysis of Structural Component: Experiment and Simulation. In the proceedings of TriboIndia-2023 an International conference, 5th -7th October 2023, at NIT Srinagar, J&K, India (ID:1180) (Best Paper Award)
- o Goyal Jaya, S. S. Mantha, and **V. M. Phalle**. (2019). “Analysis of passive retrofitting measures for reduced electricity demand.” International Conference on Nascent Technologies in Engineering (ICNTE), January 2019, **IEEE**. (Best Paper Award, Young Researcher Award)
- o Goyal Jaya, S. S. Mantha, and **V. M. Phalle**. (2019). “Envelop insulation for energy efficient smart buildings in India”. International Conference on Delivering Future Infrastructure for Developing Countries (INFRACON), July 2019. (Best Paper Award)
- Fellow Member of ‘Council of Vibration Specialists’(CVS)
- Executive council member of “Tribology Society of India” (TSI) Delhi India.
- Appreciation from Principal of Ajmer College of Engineering, Ajmer, Rajasthan, for NBA Workshop and preparation of eSAR on 22nd – 24th May 2018.
- Appreciation from Shri G S Institute of Technology & Science, Indore, Madhya Pradesh, for NBA Workshop on Outcome base education on 12 – 13 April 2018.
- “Registration support by National Science Foundation under grant CMMI-1549958”. (On behalf of the organizing committee of the Suh Symposium at the IMECE 2015, IMECE registration fee is waived with a funding from NSF. (Congratulations! Sang-Gook Kim Professor Mechanical Engineering, Massachusetts Institute of Technology Co-Chair of the Suh Symposium) **2015**.
- Appreciation Certificate by VJTI Mumbai for “Successful Completion of Ph. D. from IIT Roorkee” on VJTI Foundation Day 12th April **2012**.
- Appreciation letter by Hon. Sekhar Basu, Former Director BARC Mumbai and Alumni of Mechanical Engineering Department VJTI, for “Timely Help and Good Coordination” on 4th September **2014**.
- Honored with “A Bontiful Tree (Certificate No. 291691) GROWTREES” for expert lecture delivered at Staff Development Programme, Organized by Structural Engineering Department *VJTI, Mumbai* funded by TEQIP-II and COE-CNDS VJTI), Feb. **2013**.

14. Fund Generation MODROB/QIP/Consultancy/Testing: (31)

Sr No.	Particulars	Amt. Lacs	Remark
i)	AICTE-IDEA Lab Network (PI) (IDEA Idealab ID – IDEA202000302) 2 years	90.00	Ongoing
ii)	Kirloskar Pneumatic Co. Ltd. (KPCL) and Indian Institute of Science (IISc) funded by the Ministry of Heavy Industry (MHI) Government of India for development of Design and Testing of Hybrid/Hydrostatic Bearings of a Water Injected Screw Compressor from 27/02/2024 for the period of one year.	15.00	Completed
iii)	Under Mou with BIS 3years	20.00	Ongoing

iv)	Share and Mentor (Margdarshan scheme) of AICTE New Delhi Grant 2024-25 for the period of three years for mentoring Five engineering colleges	15.00	Ongoing
v)	Promoting Interests, Creativity and Ethics among Students (SPICES), F. No. 10-94/AICTE/IDC/SPICES/2021-22, Dated 25 May 2022	2.00	Completed
vi)	Experimental and Analytical Performance Analysis of Hydrostatic/ Hybrid Conical Fluid Film Journal Bearing, File No. 8-	20.77	Completed

	96/FDC/RPS (POLICY-I) I2019-20 Date: 14 Aug 2020 (Three Years) Rs. 20.77451		
vii)	Skill and Personality development programme centre for SC/ST Students, File No. 68-18/RIFD/SPDP/POLICY-I/ I2017-18 Date: 18 January 2019 (Jan 2019-Dec 2021, Three Years)	14.08	Completed
viii)	ATAL-FDP on IOT and Condition Monitoring, December 6-10, 2021 supported by AICTE Delhi. F. NO. AICTE/ATAL-HQ/2020-21	0.93	Completed
ix)	Fund for QIP Center from AICTE New Delhi Year 2018-19	19.00	Completed
x)	Fund for QIP Center from AICTE New Delhi Year 2018-19	15.00	Completed
xi)	Trailer Design, RTO Mumbai- Amount – Rs. 0.64 lakhs Year 2019-20	0.64	completed
xii)	Trailer Design, RTO Mumbai- Amount – Rs. 0.64 lakhs Year 2018-19	0.64	completed
xiii)	BRNS Mumbai No 31/17/81/2018-BRNS/17218 Sanction of President of India Grants for "TRIBOINDIA-2018" during 13-15 Dec 2018	0.50	Completed
xiv)	DRDO has approved an amount of Rs 100,000/- (Rupees One Lakh only) under Grants-In-Aid for "TRIBOINDIA-2018" during 13-15 Dec 2018	1.00	Completed
xv)	SERB-DST Financial assistance under "Assistance to Professional Bodies & Seminar / Symposia Scheme" Rs 1,00,000/- as partial grant-in-aid to the recommended application. Sanction Order No SSY/2018/001034	1.00	Completed
xvi)	Travel Grant for presenting paper at Dallas from DST, New Delhi 1.39445 Lacs and 0.85 from VJTI Matunga Mumbai Sanction Order : ITS/2018/004923) (1.39+0.85)	2.24	Completed
xvii)	Fund for QIP Center from AICTE New Delhi Year 2018-19	15.00	Completed
xviii)	Fund for QIP Center from AICTE New Delhi Year 2017-18	117.95	Completed
xix)	Trailer Design, RTO Mumbai- Amount – Rs. 0.50 lakhs Year 2017-18	0.50	Completed
xx)	Share and Mentor (Margdarshan scheme) of AICTE New Delhi Grant 2017-18 for the period of three years	11.00	Completed
xxi)	Institute travel grant to visit Texas A & M University College Station, Texas	1.00	Completed
xxii)	Trailer Design, RTO Mumbai Year 2016-17	0.40	Completed
xxiii)	Global Initiative on Academic Network (GIAN) MHRD Scheme - Industrial Tribology - Robotics for Human Movement Training	15.87	Completed
xxiv)	Trailer Design, RTO Mumbai- Amount – Rs. 0.20 lakhs Year 2015-16	0.20	Completed
xxv)	R & D Grant of 1.5 for “Antifriction bearing” research work under TEQIP-II	1.5	Completed
xxvi)	R & D Grant of 4.5 for “Investment casting” research work under TEQIP-II	4.5	Completed
xxvii)	RPS Grant from AICTE New Delhi for “Experimental and CFD performance analysis of hydrodynamic cylindrical /conical journal bearing” 22.69 Lacs (8-221/RRFD/RPS/policy-1/2014-15)	22.69	Completed

xxvii i	Travel Grant for presenting paper at Dallas from DST, New Delhi 1.35 Lacs and 0.75 from VJTI Matunga Mumbai (ITS/0528/2015-2016) (1.35+0.75)	2.10	Completed
xxix)	Trailer Design, RTO Mumbai- Year 2014	0.10	Completed
xxx)	Approval of stability calculation for PIT cleaning cum QC unit on EICHER 10.80 Chassis, M/s IPWT Corporation Govandi (w), Mumbai. Amount Rs 0.33 Dated 22/12/2014	0.33	Completed
xxxi)	Fund for QIP Center from AICTE New Delhi 46.50 Lacs Year 2014-	46.50	Completed

	15		
xxxii)	Fund for QIP Center from AICTE New Delhi 52.50 Lacs Year 2013-14	52.50	Completed
xxxii i	FDP courses 0.60 lakhs Year 2013-14,	0.60	Completed
xxxi v	Through MOU with M/s. Star Coolers & Condensers Ltd. (Jalgaon) 3.0 Lacs year 2013-14	3.0	Completed
xxxv)	MODROB for Machine Dynamics and Vibration lab 17.50 Lacs year 2013-14. (12/AICTE/RFID/MOD(POLICY-2)-128/2012-13)	17.50	Completed
xxxv i	MODROB for Measurement Lab from 11.00 Lacs year 2013-14 (12/AICTE/RFID/MOD(POLICY-2)-125/2012-13)	11.00	Completed
xxxv i	Travel Grant for presenting paper at Detroit from AICTE, New Delhi USA 1.20 Lacs (F. No. 10-6/AICTE/RFID/TG/POL-1/2013-14 Dated 05/03/2014). and 0.75 from VJTI Matunga Mumbai	1.95 (1.20 +0.75)	Completed
xxxv i	Travel Grant for visiting South Africa universities and University of Mauritius 3.75 lacs TEQIP-II	3.75	Completed
xxxi x	Crane design, Rashtriya Industries 1.86 lakhs June 2012,	1.86	Completed
xl)	Training course, IOCL, Mumbai, Amount – Rs. 12.00 lakhs. Year 2004-2007	12.00	Completed
xli)	Trailer Design, RTO Mumbai- Amount – Rs. 6.00 lakhs. Year 2002-2007	6.00	Completed
xlii)	<i>Project</i> Design analysis for 300 liter storage drums, <i>Client-</i> M/s Time Packaging Ltd., Mumbai, <i>Description</i> -This involves analysis and testing of 300 lit drums for patents infringement.	0.50	Completed
xliii)	<i>Project</i> Quick connect Dry break Couplings <i>Client-</i> M/s OPW Fluid Transfer Division, Mumbai, <i>Description</i> Involves Technical Evaluation of Quick connect Dry break Couplings. (New Product development) <i>Status-Year</i> 2008	0.50	Completed

15. Global Initiative on Academic Network (GIAN) MHRD Scheme: (02)

Sr No	Course Name	No of participants	Name of Foreign Expert	Grant	Date	Status
1	155036L02: Industrial Tribology, No.I IT /GIAN/S- 16/295 Date: 27.01.2016	54	Michel Fillon, France	8000\$	4 th -8 th July 2016	Completed

2	155036101 : Robotics for Human Movement Training, No.IIT /GIAN/S-16/297 Date: 27.01.2016	46	Prof. Sunil Kumar Agarwal Mech Engg Dept University of Colombia NY USA	8000\$	8 th -12 th August 2016	Completed
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16. Contribution in enhancing academic excellence in the institution under TEQIP-III/II:

Sr No	Activity	Amount Lacs	Funding agency
1	Established Tribology/Machine Dynamics PG Research lab	15.0	TEQIP-II
2	Finishing school for UG Mech Engineering	0.50	TEQIP-II
3	International Conference TRIBOINDIA 2018	1.5	TEQIP-III
4	International conference on Advances in Material, Design & Manufacturing Engineering held in VJTI during 21-22 Dec., 2017	1.5	TEQIP-II

17. Membership of / contribution to Commissions/ Committees etc. in the field of Higher Education policy formulation

- Member of Subject Expert Committee (SEC) for Mechanical Engineering Curriculum Revamp AICTE New Delhi. 1/04/2025
- Member of Special Cell Standing Committee, Mumbai University 2023
- Member of AICTE ADF Scheme for Rules_PG & Information Brochure of PHD 2023.
- Member of Governing Body of Dr. D. Y. Patil College of Engineering and Innovation, Varale Campus, Talegaon, Pune - 410507 Maharashtra from AY 2020-21.
- Member of Board of Governing Body (BoG) of Dr. JJMCOE, Jaysingpur, Sangli Maharashtra from AY 2017-19.
- Member of Board of studies (BoS) Mechanical Engineering at K K Wagh College of Engineering, Nashik Maharashtra from AY 2021-22 .
- Member of Board of studies (BoS) Mechanical Engineering at Annasaheb Dange College of Engineering and Technology, ADCET, Ashta Maharashtra from AY 2019-20 to 2021-2022.
- Member of Board of studies (BoS) PG Defence Technology, DKTES, Textile and Engineering, Institute, Ichalkaranji - 416115, Dist - Kolhapur (MAH) Year 2022-24.
- Member of Board of studies (BoS) Mechanical Engineering at Cummins College of Engineering for Womens, Pune Maharashtra from AY 2019-20 to 2021-2022.
- Member of Board of studies (BoS) Mechanical Engineering at **Mumbai University** Mumbai Maharashtra July 2019 to June 2022
- Member of Board of studies (BoS) Aeronautical Engineering at **Shivaji University** Kolhapur Maharashtra July 2015 to June 2017
- Member of Board of studies (BoS) Mechanical Engineering at **College of Engineering Pune** Maharashtra July 2019- June 2020
- Member of Board of studies (BoS) Mechanical Engineering & Automobile Engineering at Anna Dange College of Engineering Ashta Sangli, Maharashtra
- Member of Rashtriya Uchchatar Shiksha Abhiyan (RUSA) Maharashtra for preparation of 'Product Development' syllabus Maharashtra State.
- Member of Board of studies (BoS) Aeronautical Engineering at Shivaji university Maharashtra

- Member of Standing Hearing Committee (SHC) and Member of Standing Appellate Committee (SAC) of AICTE for the year 2017-2022.

18. Short Term Courses/workshop Organized :(31)

- (i) One Week FDP on Revised Accreditation Framework of National Assessment and Accreditation council (NAAC) at VJTI Mumbai on 10th December 2019 Under TEQIP and AICTE approved Margdarshan scheme. One Week ATAL-FDP on IOT and Condition Monitoring, December 6-10, 2023 supported by AICTE Delhi.
- (ii) One Week ATAL-FDP on IOT and Condition Monitoring, December 6-10, 2021 supported by AICTE Delhi.
- (iii) One Week STTP on Industry 4.0 & Conditioning monitoring, March 15-19, 2021, VJTI and Government Engineering College Ajmer supported by world bank funded TEQIP III
- (iv) One Day workshop on Revised Accreditation Framework of National Assessment and Accreditation council (NAAC) at VJTI Mumbai on 10th December 2019 Under TEQIP and AICTE approved Margdarshan scheme.
- (v) Two days National workshop on “Research Projects, Funding and Opportunities in Engineering and Sciences” at Government Engineering College Ajmer, Rajasthan, for more than 90 participants during on 29th & 30th May 2019.
- (vi) Two days NBA workshop on “Outcome Based Education and Accreditation” for Rajiv Gandhi Proudhyogiki Vishwavidyalay Bhopal, at Mahakal Institute of Technology , Ujjain (M.P) MP, for more than 100 participants during 29th to 30th April, 2019 under TEQIP-III.
- (vii) One Day Pre-conference workshop on “**Industrial Tribology**” under **TRIBOINDIA 2018 and AICTE Margdarshan Scheme** held on December 12th 2018 at V.J.T.I. Matunga, Mumbai.
- (viii) Three days NBA workshop on “Outcome Based Education and Accreditation and how to upload SAR” for Ajmer College of Engineering, Ajmer, Rajasthan on 22 – 24 May 2018.
- (ix) Two days NBA workshop on “Outcome Based Education and Accreditation” for SGSIT, Indore, at SGSIT Indore MP, for more than 100 participants during on 9th & 10th March 2018.
- (x) Two days NBA workshop on “Outcome Based Education and Accreditation” for Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV), at SGSIT Indore, MP, for more than 150 participants during 12-13 April 2018.
- (xi) Faculty development programme on “**Industrial Tribology**” held from Monday, November 07 – 11, 2018 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, QIP funding.
- (xii) One Day orientation workshop on “**NBA**” under **Margdarshan Scheme for mentee institutes**” held on July 28th , 2017 at V.J.T.I. Matunga, Mumbai.
- (xiii) One Day orientation workshop on “**VSSC ISRO’s FEAST^{STM} FEA TECHNOLOGY**” **Jointly organized by ISRO and Mechanical Engineering Department** and held on November 14th , 2016 at V.J.T.I. Matunga, Mumbai.
- (xiv) One Day orientation workshop on “**Outcome Based Education and Accreditation for Programme Evaluators (PEVs)**” held on Saturday, May 14, 2016 at V.J.T.I. Matunga, Mumbai TEQIP SPONSERED.
- (xv) One Day Faculty development programme on “**Skill India**” held on Monday, December 07 – 11, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, TEQIP funding, 25th February, 2016 at VJTI, Matunga, Mumbai-19.
- (xvi) One Day **Workshop on “Entrepreneurship Development Programme**” jointly organized by Maharashtra Chamber of Commerce, Industry & Agriculture and VJTI on 12th January, 2016.
- (xvii) One Day Faculty development programme on “**Digital Transformation**” held on Monday, December 07 – 11, 2015 at the Mechanical Engineering Department, V.J.T.I.

Matunga, Mumbai through AICTE SPONSERED, TEQIP funding, 2nd February, 2016 at VJTI, Matunga, Mumbai-19.

- (xviii) One Day Faculty development programme on “**Internet of Things**” held on Monday, December 07th – 11th, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, TEQIP funding, 8th January, 2016 at VJTI, Matunga, Mumbai-19.
- (xix) Faculty development programme on “**Industrial Tribology**” held from Monday, December 07 – 11, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, QIP funding.
- (xx) Faculty development programme on “**Industrial Tribology**” held from, December 22 – 26, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, QIP funding.
- (xxi) Four days training program organized on “**TEQIP MIS**” at VJTI Mumbai by NPIU/SPFU Maharashtra state during 10th–13th March 2014
- (xxii) Organized one week **International Workshop** under TEQIP-II on “**25 Years of Passivity Based Control: New Vistas**”, jointly by Center of Excellence in Complex & nonlinear Dynamics Systems, VJTI and Highly-complex and networked control system (HYCON) during 19th to 23th May 2014.
- (xxiii) One day Workshop On “**Entrepreneurship Development Program**” on Tuesday, 10th February 2015 at VJTI Mumbai for Final Year M Tech students.
- (xxiv) Faculty development programme on “**Fault Diagnosis of Rotating Machines and Finite Element Analysis**” held from Monday, January 05 – 09, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, QIP funding.
- (xxv) Convener for “A National Level Doctoral Consortium for Research Scholars in Industrial Engg./Production Engg./ Mechanical Engg./ Automobile/Metallurgy/ Operations Management/HRD”, at VJTI on 11th January 2013.
- (xxvi) Faculty development programme “**Advances in Fault Diagnosis of Rotating Machines and Fluid Film Bearing**” held from Monday, June 10 – 14, 2013 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through TEQIP_II funding.
- (xxvii) Faculty development programme “**Mechatronics**” held on Monday, June 10 – 14, 2013 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through TEQIP_II funding.
- (xxviii) One Week Faculty Development Program under TEQIP-II on “**Rapid Product Development & Manufacturing**” held during November 26-30, 2013 in collaboration with IIT Bombay and Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai.
- (xxix) “**E-Foundry: Casting Design and Simulation**” on October 26, 2013 (Saturday) in association with Indian Institute of Technology Bombay (IITB), Mumbai and National Knowledge Network (NKN) mission of Govt. of India, New Delhi.
- (xxx) Faculty development programme on “**Advances in Machine Design**” held on June 10 – 14, 2013 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP,.
- (xxxi) Faculty development programme on “**Finite Element Analysis**” held on March 11 – 12, 2014 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by TEQIP-II.

19. Participation in Short Term Courses : (45)

Sr. No.	Course Dates	Duration	Title
1.	21-25 February 2023	One week	Participation in the Quality Assurance Through NAAC Accreditation Process, conducted by VJTI Mumbai, and Organized by NITTTR, Chennai.

2.	22-26 August 2022	One week	Mentor Programme conducted by NITTTR, Chennai, and organized by All India Council for Technical Education(AICTE) from 22 nd to 26 th August 2022.
3.	17-21 May, 2021	One week	5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 17 May, 2021 to 21 May, 2021.
4.	10-14 August 2020	One Week	Blended Learning and Flipped Classroom Organized by Sardar Vallabhbhai National Institute of Technology Surat. ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, New Delhi AICTE Training And Learning (ATAL) Academy,
5.	3 rd May 2020	One day	Future of Training & Placement is REMOTE” and “Tools for TPOs in 2020 to increase productivity”

			Organized by MaTPO Maharashtra
6.	23-27 Nov. 2020	One Week	Tribology in Design and Manufacuring ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070 AICTE Training And Learning (ATAL) Academy
7.	26 June 2020	One Day	Workshop on Artificial Intelligence/Machine Learning and Deep Learning, Organized by NVIDIA, DigitalTrack Solutions Pvt Ltd
8.	22/06/2020	8-Week	Machine Design Part-I an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera
9.	6-22 April 2020	2-Week	Digital Transformation in Teaching Learning Process, Organised by IIT Bombay, Powered by SWAYAM and The World Bank
10.	22-24 April 2020	Three Day	Design of Experiments: An Engineering Perspective, Organised by Journal of Advanced Engineering Research & Powered by Hexacube India
11.	27th Nov. 2020	One Day	Awareness webinar on Outcome based Education and Accreditation, Organized by NBA Delhi in association of DTE Maharashtra & COE Pune
12.	20-24 July 2020	One week	“Tribology for Sustainable Development” Organized by Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir
13.	2 nd March 2020	One-Day	Training programme for the experts at Bhopal on ‘Approval Process 2020-21Approval Process 2020-21’
14.	12 th -13 th July 2019	Two-day	Short course on The “Finite Element Method” at VJTI Mumbai
15.	26 th February 2019	One day	"Margadarshak workshop" on 26.02.2019 at AICTE HQ. , New Delhi
16.	11 th -12 th January 2019	Two days	Master class on Experimental and project-based learning in Engineering Education: How to make it work, Organized by JK Lakshmipat University JKLJU Jaipur Rajasthan
17.	28 th May, 2018	One Day	Orientation Workshop on Outcome Based Education and Accreditation for Programm Evaluators (PEVs) held on at 09:00 a.m. at Juniper Hall, India habitat Center, New Delhi, Organized by National Board of Accreditation Delhi
18.	21st February 2018	One day	One day state level workshop on ‘Enhancing quality of technical education: issues and challenges’ at Thakur college of engineering and Technology, Kandivali Mumbai and DTE Mumbai

19.	8 th Feb 2018	Two Days	NBA workshop on Outcome Based Education and Accreditation” New Delhi (TEQIP-III funded)
20.	27 th – 28 th August 2015	Two days	2 day Brain storming Workshop of Heads of Educational Institutes on “Key Issus of Higher Technical Education” organized by ABV- IITM Gwalior , Prof D P Agrawal, Coordinator of the Workshop, and Former Chairman Union Public Service Commission (UPSC), New Delhi (TEQIP-II funded)
21.	27 th January 2015	One Day	“Faculty Development program” organized by Accenture Pune as a Industry Institute Interaction. (Accenture Funded)
22.	7 th June 2014— Phase-I 25 th -27 th June, 2014-Phase-II	Four Days	NBA workshop on outcome based accreditation on “ORIENTATION WORKSHOP ON OUTCOME BASED ACCREDITATION” at K J Somaiya College of Engineering, Vidyavihar, Mumbai, (Train to trainer) (TEQIP-II Funded)
23.	15 th to 20 th December, 2014	One Weak	2nd batch of Training on “Management Capacity Enhancement for Administrators” from 15 th to 20 th December, 2014 at IIM Udaipur (TEQIP-II Funded)
24.	27 th June 2014	One Day	One Day workshop on “ Best Practices in curriculum

			development of Mechanical Engineering” , Organized by Walchand College of Engineering, Sangli Maharashtra TEQIP-II Funded Program.
25.	28 th May 2014	One Day	Two day workshop on “ Enhancement Management Framework (EMF) & Procurement ” organized by NPIU/SPFU, Commissionerate of technical Education, Gandhinagar Gujarat at. (TEQIP-II Funded)
26.	16 th April 2014	One Day	One day training on “ TEQIP eFMR ” organized by NPIU/SPFU Maharashtra State at VJTI Mumbai. (TEQIP-II Funded)
27.	12 – 13 March 2014	Two days	Two days training on “ TEQIP MIS ” organized by NPIU/SPFU Maharashtra State at VJTI Mumbai.
28.	30-31 January 2014	Two days	A state level workshop on “Challenges and Applications of Nanotechnology in India” Organized by Shri Saibaba Institute of engineering and research and alied sciences, Rahata Maharashtra
29.	13-14 June 2013	Two days	One day training on “ TEQIP e-FMR/PMSS ” organized by NPIU/SPFU Maharashtra State at COE Pune. (TEQIP-II Funded)
30.	18-22 February 2013	One Weak	“ Recent Trends in Finite Element Method and Introduction to building Element and Mesh Free Method ” Staff Development Programme, Organized by structural Department <i>VJTI, Mumbai</i> funded by TEQIP-II VJTI)
31.	4 th Nov 2012	One Day	One day Orientation Workshop on “ Outcome Based Accreditation Process & Parameters ” conducted by NBA under TEQIP-II at V.J.T.I., Mumbai-400 019(TEQIP-II Funded)
32.	12-16 March 2012	One Week	“ Industrial Engineering Tools and Techniques ”, Staff Development Programme, TEQIP-II Sponsored at <i>VJTI, Mumbai</i>
33.	7-11 March, 2011	One Week	“ Vibration Condition Monitoring Techniques for Fault Diagnosis ” Short Term Course IITR, Roorkee.

34.	April 3-6, 2010	One Week	“Diagnostics and Condition Monitoring of Rotating Machines” , Sponsored by RDSO, NTPC, THDC, CEC, IIT Roorkee
35.	July 06-July 10, 2009	One Week	“Sound and Vibrations, Fundamental, Measurement, Diagnostics & Analysis,” QIP, Continuing Education Center, IIT Roorkee, Roorkee.
36.	Dec. 03 – 06, 2008	One Week	“Bearing Technology & Maintenance” , Continuing Education Center, Indian Institute of Technology Roorkee, Roorkee-247 667.
37.	April 5-7, 2008	Three days	“LaTeX” 3-days workshop, College of Engineering, Pune
38.	June 18-22, 2007	One Week	“Modelling and Simulation of Mechatronic Systems” , QIP, Continuing Education Centre, IIT Roorkee, Roorkee-247 667.
39.	22-24 March 2007	Three Day	Three Day National Seminar on “Mechanical Vibrations-Analysis and Diagnosis” , Organized by PRCOE, Loni Maharashtra and sponsored by AICTE New Delhi.
40.	July-Nov, 2006	Six Months	“PG Level Part-time Programme-Machine Design ME-607” IITB, Bombay, TEQIP Sponsored.
41.	Jan. 27 – 28,	Two Days	“Pedagogical Skills” , V.J.T.I. Mumbai

	2005		
42.	March 20, 2004	One Day	“Low Cost Automation” M. H. Saboo Siddik College of Engineering, Byculla, Mumbai
43.	Nov. 14 – Dec. 12, 2003	<u>One Month</u>	“E-Commerce and Industrial Finance” , QIP V.J.T.I. Mumbai
44.	Dec. 02 – 28, 2002	<u>One Month</u>	“Internet Technology” QIP, V.J.T.I. Mumbai
45.	May 21- 25, 2001	<u>One Week</u>	“Design Practices” , QIP, IIT, Bombay, Mumbai
46.	Dec 30, 1996- Jan 4, 1997	<u>One Week</u>	“Finite Element Analysis of Floating Structures” , QIP, IIT, Kharagpur

20. International Visits : (9)

- (i) 2013- 68th STLE Annual Meeting, Detroit, Michigan (USA) May 05-09, 2013. (Travel Grant from AICTE, New Delhi USA 1.20 Lacs)
- (ii) University of South Africa* November 12-26, 2013 (TEQIP-II)
 - University of KWAZULU-NATAL- College of Agriculture, Engineering and Science University in Durban, South Africa
 - Cape Peninsula, University of Technology South Africa
 - CSIRs Nonwoven & Composite Port Elizabeth, South Africa
- (iii) University of Mauritius Faculty of Engineering* November 12-26, 2013 (TEQIP-II)
- (iv) 2015- 70th STLE Annual Meeting, Dallas, Texas (USA) May 17-21, 2015. (Travel Grant from DST, New Delhi USA 1.35 Lacs and 0.75 from VJTI Matunga Mumbai)
- (v) Texas A& M University (TAMU) College station, Texas, as a **Visiting Professor in Mechanical Engineering Department**, Host faculty Dr. J N Reddy Professor in Mechanical Department. (Institute funds 1.00 lacs)

*under TEQIP-II to discuss about **R & D Opportunities** with Mech. Engg. Dept., VJTI.
- (vi) IMECE-2018- David L. Lawrence Convention Center, Pittsburgh, PA, CONFERENCE Nov 9–15, 2018 (Travel Grant from DST, New Delhi USA 1.35 Lacs and 0.80638 from VJTI Matunga Mumbai)
- (vii) ICoNSoM 2019, International Conference on Nonlinear Solid

Mechanics, 16-19 June 2019, Roma, Italy

(viii) University of North Carolina, Charlotte USA 2nd to 8th May 2023

(ix) University of North Carolina Greensboro USA 2nd to 8th May 2023

21. Memberships of Professional Bodies: (9)

- i. Fellow Member of council of Vibration Specialists (Membership No: FML2200072)
Year 2022
- ii. ASME Member, New York USA, (Membership no 000102515829)
- iii. Executive council member of Tribology Society of India (TSI) Dec 2018-2023
- iv. International Multidisciplinary Research Foundation IMRF (Membership no: 22099, year 2022)
- v. Board Member of IRD Mechanalysis Ltd. Andheri (E) Mumbai since July 2016
- vi. Life member of Indian Society for Technical Education (ISTE LM-22516)
- vii. Life member of Tribology Society of India (TSI LM-3792)
- viii. Senior Member of “Indian Institute of Industrial Engineering”, Navi Mumbai (SMIIE 10036)
- ix. Treasurer of Tribology Society of India (TSI) Mumbai-Pune Chapter 2013-2014

22. National Board of Accreditation:

Mechanical Department UG course accredited for 2 Years 2014-2016, and worked as Head, Mechanical Engineering Department

- Member of Expert Team National Board of Accreditation (NBA) visited to many Tier-I, Tier-II and Diploma Institutions in India.
- Conducted more than 30 workshops on NBA in Maharashtra, Madhya Pradesh, Rajasthan and Bihar.

23. Finishing school for academically weak students: (01)

- Finishing school for academically weak students of Mechanical Engineering UG and PG students organized on 25th-29th May 2013.

24. Training and Placement:

- To strengthen relationships with academia and influence the development of future talent, Deloitte launch of the third season of the Deans Summit on April 13-14, 2017 at DU: The Leadership Center in India, Hyderabad. “Building World Class Institutions” Dr V M Topkar, Nominations to Deloitte University Relations - Deans Summit 2017.
- Faculty Development Programme Organized on 4th&5th August 2016 at Infosys Pune for Faculty of Computer, Electronics & MCA Department. (Prof. Sharwne, Dr Bhole G P, Prof A A Pandit and Prof Rahul Ingale, Prof Vikrant Chaudhary attendees)
- Attended TPO Meet of Directi (Media.Net) at Andheri on 26th July 2015 and 15th July 2016
- Attended TPO meet of Accenture company at Goa on 3rd-4th July 2015
- Faculty Development Programme Organized on 6th to 17th July 2015 at L& T Infotech for Faculty of Computer Department. (Prof. Sharwne and Prof Varshapriya attended)
- MoU with Tech Mahindra Pune for Year 2015-2018

Objectives:

1. Faculty Interaction
 2. Joint Training & M Tech Projects
 3. Research Projects
 4. Industrial visits for Student
 5. Placement for students
- MoU with Shindler India Schindler India Pvt Ltd 2015-2018 Objectives:
 1. Faculty Interaction
 2. Research Projects
 3. Industrial visits for Student
 4. Placement for students
 5. Scholarship to VJTI Students

- The Siemens Student Program, SSP for the VJTI student in Industry after second year of B Tech. at SIMENS started in May 2015 and for the year 2015-16, 2016-17, 2017-18
 1. Summer internship 19th May to 18th July 2015
 2. Winter internship
 3. Donation of Software and CNC machine (worth 2 Cr)
- VJTI TPO and INFOSYS jointly organized one day workshop on "INDUSTRY INSTITUTE INTERACTION" on Saturday 18th July 2015
 1. Placement Session + Practice Workshop
 2. Alumni Session- Interaction
 3. Technology Brainstorming- Case Study
 4. Employer of Choice Session
 5. Q&A Session
- VJTI TPO and Accenture jointly organized one day workshop on "INDUSTRY INSTITUTE INTERACTION" on Saturday 8th Aug 2015
 1. Placement Session + Practice Workshop
 2. Employer of Choice Session
 3. Q&A Session

• **Sponsorship from industry to VJTI Annual function,**

Company Name	Amount	Contact Person	Contact Details	Sponsorship Details
For year 2015-16				
TCS	Rs.70,000	Mr. Gaurav Gandhi	+91-9167904197 Gaurav.gandhi@tcs.com	• TCS App-making Competition • Publicity
SAP	Rs.50,000	Mr. ManjunathJid dimani	+91-9739493927 Manjunath.g.jiddi mani@sap.com	• Publicity • Cube-art
Mahanager Gas	Rs. 35000		SAE Aero	• Cash
For year 2017-18				
Pratibha Industries	Rs 10000.00	Mr Anand Kulkarni	9930458600	• State level technical quiz & poster presentation organized by Civil Department
Sunil Chemicals	10000.00	Sunil Khakkar	9967166688	• International Conference 2017 Mechanical Department
M & M Ltd	30000.00	Pradeep Zoting	9881061791	• International Conference 2017 Mechanical Department
Amil Ltd	25000.00	Prachi Gurav	9930359721	• International Conference 2017 Mechanical Department

25. **TEQIP-II and TEQIP-III**

TEQIP-II Procurement Coordinator:

- TEQIP-II Procurement Coordinator 22 Aug. 2012 to 31st July 2017
- TEQIP- II COE Procurement coordinator
- Procurement of 5.67Cr successfully completed with 81 packages including Civil work, Learning resources, procurement of Equipment's from August 2012 to December 2014.
- Procurement of 2.35 Cr successfully completed with 13 packages including Civil work, Learning resources, procurement of Equipment's from January 2013 to December 2016.

TEQIP-III

- Two day interaction with faculty of Ajmer College of Engineering Ajmer Rajasthan on 11-12 December 2019 under twinning activity of TEQIP-III NPIU World bank project

- Two research papers published in National Conference at Gaya College of Engineering Bodh Gaya Bihar jointly with the students of VJTI & Ajmer College of Engineering Rajasthan on 9th December 2019.
- Joint research project with Gaya College of Engineering Bodh Gaya Bihar under twinning activity of TEQIP-III NPIU World bank project
- NBA workshops conducted for Ajmer College of Engineering Rajasthan and for Gaya College of Engineering Bodh Gaya Bihar under twinning activity of TEQIP-III NPIU World bank project
- Students of Ajmer college guided for Internship at VJTI Mumbai 6th June to 6 July 2019 under twinning activity of TEQIP-III NPIU World bank project
- Sessions conducted on Skill and personality development for students at Ajmer College of Engineering Rajasthan and for Gaya College of Engineering Bodh Gaya Bihar, under twinning activity of TEQIP-III NPIU World bank project
- Twining coordinator for Ajmer College of Engineering Ajmer Rajasthan and Gaya College of Engineering Bodh Gaya Bihar

26. QIP center Coordinator:

- One Faculty development programs organized at VJTI in the Year 2018-19
- Thirteen Faculty development programs organized at VJTI in the Year 2017-18
- Ten Faculty development programs organized at VJTI in the Year 2016-17
- Seven Faculty development programs organized at VJTI in the Year 2015-16
- Seven Faculty development programs organized at VJTI in the Year 2014-15
- Two students provisionally admitted for Ph D through QIP center
- Five Faculty development programs organized at VJTI in the Year 2013-14
- QIP Center Co-ordinator from Aug. 2012 to till date
- Introduction of QIP Center at VJTI in the year 2012 (F.No. RIFD/QIP/Govt./2011 Dated 27.08.2012)

S No	Grant received for QIP Center	Fund received
1.	For the Year 2022-23	1500000.00
2.	For the Year 2021-22	1500000.00
3.	For the Year 2020-21	1500000.00
4.	For the Year 2019-20	1500000.00
5.	For the Year 2018-19	1500000.00
6.	For the Year 2017-18	10179500.00
7.	For the Year 2016-17	6608375.00
8.	For the Year 2015-16	4996000.00
9.	For the Year 2014-15	4676000.00
10.	For the Year 2013-14	5250000.00
11.	QIP center approved in year 2012(F.No. RIFD/QIP/Govt./2011 Dated 27.08.2012)	Nil
Total Grant received till date		33209875.00

Sr No	Ph D Admission preregistration year	Admission registration year	Number of students selected	Number of students admitted	Department
1.	Year 2014-15	Year 2015-16	02	02	Electrical (2)
2.	Year 2015-16	Year 2016-17	0	Nil	-
3.	Year 2016-17	Year 2017-18	4	4	Civil (2), Mech (2)
4.	Year 2017-18	Year 2018-19	3	3	Electrical (1), Mech(2)

5.	Year 2018-19	Year 2019-20	3	2 (one left)	Electronics (1), Electrical (1) Mechanical (1)
6.	Year 2019-20	Year 2020-21	3	1	Electronics (1)
7.	Year 2020-21	Year 2021-22	0	0	--
8.	Year 2021-22	Year 2022-23	2		Mechanical(1) Civil(1)
9.	Year 2022-23	Year 2023-24	0	0	--

27. National Doctoral Fellowship (NDF) – AICTE Delhi

Sr No	Ph D Admission	Admission registration year	Number of students admitted	Department
1.	Year 2018-19	Year 2018-19	7	Electronics (1), Electrical (1) Mechanical (2) Textile (1) Civil (2)
2.	Year 2019-20	Year 2019-20	7	Electronics (1), Electrical (1) Mechanical (3) Textile (1) Civil (1)
3	Year 2020-21	Year 2020-21	2	Electronics (1), Civil (1)
4	Year 2021-22	Year 2021-22	2	Electrical (1) Civil (1)
5	Year 2022-23	Year 2022-23		

Fund generation for NDF students

- Six RPS under NDF submitted to AICTE New Delhi (25 lacs x 6 = 1.50 cr) and 2 RPS Accepted for the year 2019-20 (24+20=44 lacs)
- Scholarship for NDF students for the AY- 2019-20, Rs. 38440 x 12 x 6= Rs. 2767680/-
- Scholarship for NDF students for the AY- 2018-19, Rs. 38440 x 12 x 6= Rs. 2767680/-

28. SHARE AND MENTOR INSTITUTIONS (MARGDARSHAN)

F. no.-58-3/RIFD/ MARGDARSHAN/Policy-1/2016-17 dated 20/01/2017 to Dec 20120

- NBA guidance and Academic Audit to SIES Institute of Technology, Nerul, Navi Mumbai and finally college got accredited
- AICTE Grant 11.00 Lakhs
- MoUs Signed with 16 academic institutes under Share and Mentor Institutions 'Margdarshan' AICTE approved scheme
- One day Workshop on NBA under "Share and Mentor" (Margdarshan) Scheme for 16 mentee institute
- One day pre-conference workshop on 'TRIBOLOGY' on 12 December 2018
- Three day workshop on 'ANSYSIS' at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai
- Expert Talk on Research funding opportunities and Innovations for Faculty at G H raisoni college of engineering Pune 2/3/2019
- 3 one week Faculty development program conducted at Jondhle college of engineering Asangaon Thane
- Organized joint International Conference TRIBOINDIA-2018 on 13-15 December 2018 with maintee institutes
- NBA guidance to maintee institutes
- Expert Talk on 'Research funding opportunities and how to write proposals' for Faculty

- at Bharati Vidyapeeth's college of engineering, Belapur, Navi Mumbai 30/3/2019
- xii) NBA guidance and Academic Audit to Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai and finally college got accredited
 - xiii) NBA guidance and Academic Audit to D J Sangvi college of engineering, Mumbai and finally college got accredited
 - xiv) NBA guidance and Academic Audit to Rajiv Gandhi college of engineering Andheri, Mumbai and finally college got accredited
 - xv) Expert Talk on 'Research funding opportunities' for Faculty at G H Raisonni college of engineering Wagholi, Pune 30/3/2019
 - xvi) Expert support to Government college of engineering Karad for Writing proposal to AICTE New Delhi.
 - xvii) NBA, NAAC guidance and MOCK accreditation to Jondhle college of engineering Asangaon Thane, Mumbai and finally college got NAAC accredited with B+ Grade
 - xviii) NBA, NAAC guidance and MOCK accreditation to B R Harne college of engineering Vangani, Thane, Mumbai and finally college got NAAC accredited with B+ Grade.
 - xix) NBA guidance to Bharati Vidyapeeths college of engineering, Belapur, Navi Mumbai, Mumbai and finally college got accredited
 - xx) One Day orientation workshop on **"NBA" under Margdarshan Scheme for mentee institutes** held on July 28th, 2017 at V.J.T.I. Matunga, Mumbai.
 - xxi) One Day orientation workshop on **"NBA" under Margdarshan Scheme for mentee institutes** held on November 21th, 2019 at G H Raisonni College of engineering & Management, Wagholi Pune.
 - xxii) Expert session conducted in the three day workshop on **"Product Design & Weight Optimization" under Margdarshan Scheme for mentee institutes** held on November 21-23, 2019 at G H Raisonni College of engineering & Management, Wagholi Pune.
 - xxiii) Key Note speaker at "4th National Conference on Research & Developments in Mechanical Engineering (NCRDME-2019)" organized by mentee institute; Mechanical Engineering Department of G. H. Raisonni College of Engineering & Management Pune Sponsored by BCUD, Savitribai Phule Pune University, Pune under QIP on 1-2 March 2019.
 - xxiv) An International conference organized TRIBOINDIA-2018 An International conference on Tribology, Theme: Tribology for Reliability and Life, 13th – 15th December 2018 Mechanical department VJTI Mumbai, in association with DST, DRDO, BRNS and Tribology Society of India (TSI) and with mentee institutes (B R Harne Engineering college and Vighnharata Trust's Shivajirao S. Jondhale College of Engineering & Technology, Shahapur, Asangaon, Dist Thane under AICTE approved Margdarshan Scheme.

29. International conference organized (4)

- TRIBOINDIA-2018 An International conference on Tribology, Theme: Tribology for Reliability and Life, 13th – 15th December 2018 Mechanical department VJTI Mumbai, in association with DST, DRDO, BRNS and Tribology Society of India (TSI).
- Organizing Secretary for International Conference on Advances in Material, Design & Manufacturing Engineering held in VJTI during 21-22 Dec., 2017
- ICoNSoM 2019 Mini Symposia 16-24 June 2019 at Rome Italy jointly collaboration with McGill University Canada
- Organized Track on "Data Analytics for reliability and Maintenance" in 1st International and 4th National Conference on Reliability and Safety Engineering (INCRS-2018) 26th -28th Feb 2018 at PDPM Indian Institute of information Technology, Design and Manufacturing Jabalpur, Dumna, Khamaria, Jabalpur, India-482005.

30. International Collaboration

- ICoNSoM 2019 Mini Symposia 16-24 June 2019 at Rome Italy jointly Organized with McGill University Canada, TRE university Rome, Italy.
- Worked as a session chair in international conference ICoNSoM-2019 Italy Rome.
- An Academic MoU with Northeastern University 2025

31. Keynote Speaker/ session chair at International/National Conferences: (05)

- Key Note speaker at IndiaTrib-2024 is an International. Conference scheduled from 5th to 7th October 2023 at Fairfield By Marriott, Kolkata, India Organized by: TRIBOLOGY SOCIETY OF INDIA (Affiliated to the International Tribology Council, UK)
- Key Note speaker at first TriboIndia-2023 is an International. Conference scheduled from 5th to 7th October 2023 at NIT. Srinagar, Hazratbal, Jammu and Kashmir, India., Worked as a session chair.
- Key Note speaker at "4th National Conference on Research & Developments in Mechanical Engineering (NCRDME-2019)" organized by Mechanical Engineering Department of G. H. Raison College of Engineering & Management Pune Sponsored by BCUD, Savitribai Phule Pune University, Pune under QIP on 1-2 March 2019.
- Key Note speaker at first International conference TRIBOINDIA-2018 on 13th - 15th December **2018**, Veermata Jijabai Technological Institute, Mumbai
- Key Note speaker at 4th International conference on "Global Technology Initiatives" (ICGTI-2015) on 29th& 30th March **2015**, Rizvi College of Engineering, Mumbai
- Key Note speaker at 4th National conference on "Innovations in Mechanical Engineering" (NCIME-**2016**) held on 17th& 18th February **2016**, Sinhgad Institute of Technology, Lonavala, Maharashtra
- Key Note speaker at International Conference TRIBOINDIA-2018 on TRIBOLOGY: for life and sustainability. (TRIBOINDIA-2019)" held on 13th-15th December **2019**, Sponsored by DST-SERB, DRDO, BRNS, TEQIP-III, at VJTI Mumbai.

32. Interaction with outside Institute;

- AICTE Expert Member to Review Implementation of Community College Scheme
- Worked as an observer for NEET exams 2022
- Expert member in the project monitoring committee for PRMC of the project "Redesigning the palanquin for Mata Vaishno Devi Shrine project, being implemented at NITIE and IIT Bombay, Mumbai. April, 2017.
- The National Innovation Foundation-India (NIF) GoI, an autonomous institute under the Department of Science and Technology, Government of India for reviewing ideas and innovations submitted under the INSPIRE-MANAK scheme worked as a As an expert reviewer 2020 to till date
- Active participation in city development projects such as pumping system for Mithi River
- Working as the Subject Matter Expert (SME) for TCS iON Since January 2020 for many projects such as Bhoomi, Operations Transformation, Double etc. Till date.
- Member of State Level Industrial Cluster Monitoring Committee under Maharashtra State Industrial Cluster Development Programme (MSICDP)
- Worked as a 'Judge' for West Zone Inter-University Student Research Convention: Anveshan 2019-20, for engineering and Technology category, 19-20 February 2020. organised at University of Mumbai, Kalina campus.
- Member of IQA Committee of Institute of Chemical Technology (Deemed to be University, Matunga Mumbai (Fiest meeting attend on 3rd Oct 2019).
- Expert member on Mechanical Engineering Departmental Research Committee (DRC) for Autonomous Ph.D Centre, at G H Raison College of Engineering and Management, Pune India. From AY 2019-2020. First meeting held on 7th February 2020.
- Member of Mechanical Engineering 'Department Quality Assurance Cell' (DQAC) at Fr.

- C. Rodrigues Institute of Technology, Vashi, Navi Mumbai for Year 2016-19.
- BOS Member Automobile Engineering, ADCET ASHTA, Sangli, year 2016-2018.
- Expert member of Academic council of “Tata Power Skill development Institute” (TPSDI), Mumbai from 18/05/2017. (<https://www.tpsdi.com/about/governance-at-tpsdi.aspx>)
- Expert member on the Committee for Rashtriya Uchatar Shiksha Abhiyan (RUSA) to suggest curricula and content for the proposed courses on Data Analytics, Design Engineering and Clinical Data Management as well as the faculty development programme from 03/05/2017 letter ref no SPD/RUSA/820/2017.
- Expert member of the project review and monitoring committee (PRMC) to evaluate the project entitled “Redesigning the palanquin for Mata Vaishno Devi Shrine” Kindly note that the PRMC meeting held at NITIE/IIT Bombay on 17th April, 2017. Appointed by Office of the Principal Scientific Adviser, New Delhi.
to the Govt. of India, Vigyan Bhawan Annexe Maulana Azad Road, New Delhi – 110 011
- Examiner for a Ph. D. -Thesis Viva voce in Graphic Era University, Dehradun on 5th September 2016
- Expert member for academic audit of Production and Mech. Engg. depts. for NBA, 30th August & 1st September 2016
- Nominated by AICTE Delhi as an expert member for visiting to Government Polytechnic, Kolhapur, Maharashtra on 5th April, 2016 to inspect the Institute for available
- infrastructure, verification of purchase of equipment etc. by the Institute out of grant released by NSQF, AICTE HQs., New Delhi.
- Appointed as a EVC member to Dr NJ Paulbudhe COP, Ahmednagar and ND Kasar COP, Ahmednagar on 26th and 27th 2016 respectively by AICTE New Delhi.
- Examiner as a Ph. D. -Thesis evaluator in Pune university March 2015
- Worked as Expert Member for Maharashtra Public Service Commission (MPSC) Mumbai, on 30th, 31st March, 1st and 6th-10th April 2015
- Worked as Expert Member for Maharashtra Public Service Commission (MPSC) Mumbai, on 30th, 31st March, 1st and 6th-10th April 2015
- BOS member Aeronautical Engineering, Shivaji University, Kolhapur, year 2013-2015
- BOS Member Automobile Engineering, Rajarambapu Institute of Technology, Rajaramnagar Islampur, year 2014-2015
- Worked as a expert at AICTE as a member of AQIS committee New Delhi 2014
- Member of Interview Expert committee for MPSC Date 22/10/2014
- MPSC Exam – Member of Syllabus committee 2014
- Examiner as a Ph. D. -Thesis evaluator and examiner in other university (VIT Karnataka) 2014
- Examiner for M.Tech in Pune University, Shivaji University, Nagpur University.

33. Interaction with VJTI Alumni

- Interaction with Alumni of VJTI at Detroit Michigan USA 6th to 9th May 2013 and interact with Mr Fulchand Jain passed out 1959 and Mrs. Sarika Kapil passed out 2004.
- Visit of Invited to Mr. Sekhar Basu, Director BARC Mumbai, and Alumni to visit and interact with students and faculty of Mechanical Engineering Department 18th March 2013.
- Interaction with Alumni at Dallas Texas USA Mr. Balsara Poras Tehmuras pass out in 1981 Working as Professor at University of Texas at Dallas USA and interaction with Mr. Shah Jasantra Chhnilal Pass out year 1959.
- Interaction with Alumni of VJTI at CMU Pittsburgh USA 16th November 2018 and interact with Pass out of B Tech Batch 2016.

34. Expert Lectures: (28)

i)	Delivered Expert Lectures on “How to Write Research Proposals”, at Marathwada Mitra Mandals College of Engineering, Pune India.	7 th March 2020
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ii)	Delivered Expert Lectures on “Product Design and Weight Optimization”, at “Three Day Faculty Development Program on ‘Product Design and Weight Optimization’ from 21 st November December to 23 rd November 2019” held at the Mechanical Engineering Department, G. H. Rasoni College of engineering & Management, Pune India. (also as a Chief Guest)	21 st November 2019
iii)	Delivered Expert Lectures on “Nano Tribology”, at “One week Workshop on ‘Advances in Tribology’ from 4 th November December to 9 th November 2019” held at the Mechanical Engineering Department, AISSMS College of engineering, Pune India.	6 th November 2019
iv)	Delivered Expert Lectures on “Condition Monitoring Of Turbo Machinery: A Path To Industry 4.0”, at “Two day Workshop on ‘Role of Condition Monitoring for Industry 4.0’ from 28th December to 29th December 2019” held at the Mechanical Engineering Department, K.K.Wagh Institute of Engineering Education and Research Nashik-422003,India.	29 th December 2019
v)	Delivered Expert Lectures on “National Board of Accreditation”, at three day continuing education program on “Empowering Teachers to Achieve Excellence in Pharmacy Education”, held at the Smt. Kashibai Navale College of Pharmacy, Kondhwa, Pune	5 th January 2019

	on 3-5 January 2019.	
vi)	Delivered Expert Lectures on “Research Funding”, at “National Workshop on Research Projectss, Funding and Oppourchunities in Engineering & Sciences” held at the Government Engineering College Ajmer, Rajasthan, India May 29 th -30 th , 2019.	May 29 th , 2019
vii)	Delivered Expert Lectures on “Hydrodynamic Conical Journal Bearing”, at “International Workshop on Tribology” held at the Amrutvahini College of Engineering, Sangamner, Maharashtra, India January 16 -18, 2019.	17 th January 2019
viii)	Delivered expert lecture on “ Research Methodology” in one week “research methodology in engineering and technology”, organized by shri Bhagubhai Mafatlal polytechnic Vile parle (w) Mumbai 400056.	17 th May 2018
ix)	Session Chair of International Conference on Intelligent Manufacturing and Automation (ICIMA-2018) is organized on 20th and 21st July 2018 at Dwarkadas J Sanghvi College of Engineering, Vile Parle West, Mumbai-400056.	20 th -21 st July 2018
x)	Delivered Expert Talk on “Role of Academic in Enhancing Placement in Core Industries”,One Day Industry-Institute Symposium:Challenges and Opportunities in Core Industry Placement” In collabrortion with BOAT (WR-Mumbai) at Thakur College of Engineering & Technology,KandivaliMumbaion 1/9/2017	1 st September 2017
xi)	Delivered Expert Lectures on “Funding Agencies and Preparation of Research Proposal”, on 19/08/2017at SIES Gratuante School of Technology Nerul, Navi Mumbai	19 th August 2017
xii)	Delivered Expert Lectures on “Design of experimentation”, Two days state level workshop on “ Mechanical Engineering Design: Trends and Practices ”, during 27 th -28 th January 2017 organized by Mechanical Engineering Department, K KWagh Institute of Engineering education & Research Nashik	28 th January 2017

xiii)	Delivered Expert Lectures on “Fluid Film Bearing Material”, Short Term Training Program on “Material and Operations Sustainability: An Approach towards Make in India” on August 22-23, 2016 at Graphic Era University, Dehradun. And seminar is sponsored by DST-SERB & UCOSGraphic Era University.	6 th September 2016
xiv)	Delivered Expert Lectures on “Fluid Film Bearing”, Global Initiative on Academic Network (GIAN) MHRD Scheme, Industrial Tribology on July 04-08, 2016 at VJTI Mumbai	6 th & 7 th July 2016
xv)	Delivered Expert Lectures on “Fluid Film Bearing”, Short Term Training Program on “Industrial Tribology” , during 5 th - 6 th October 2015 organized by All India Shri Shivaji Memorial Society (AISSMS) Pune and Tribology Society of India MUMBAI-PUNE CHAPTER	5 th October 2015
xvi)	Delivered Expert Lectures on “Fluid Film Bearing”, Short Term AICTE approved QIP Program on “Industrial Tribology” , during 7 th -11 th December 2015 organized by Mechanical Engineering Department, VJTI Mumbai	8 th , 9 th and 11 th December 2015
xvii)	Delivered Expert Lectures on “Fluid Film Bearing”, Short Term Training Program on “Industrial Tribology” , during 5 th - 6 th October 2015 organized by All India Shri Shivaji Memorial Society (AISSMS) Pune and Tribology Society of India MUMBAI-PUNE CHAPTER	5 th October 2015
xviii)	Delivered Expert Lectures on “Fluid Film Bearing”, Short Term Training Program on “Computational Methods in Mechanical Engineering”, during 6 th to 11 th July 2015 organized by Pillai	8 th July 2015

	HOC College of Engineering & Technology, Rasayani, Dist. Raigad, Maharashtra Approved by ISTE.	
xix)	Delivered Expert Lectures on “Fluid Film Bearing”, Short Term Training Program on “Recent Trends in Design, Failure Analysis and Maintenance of Bearing”, during 22 th to 26 th June 2015 organized by Dr. J. J. Magdum College of Engineering, Jaysingpur, Kolhapur sponsored by TSI & ISTE.	22 nd June 2015
xx)	Delivered Expert Lectures on “Fluid Film Bearing”, Faculty development programme on “Fault Diagnosis of Rotating Machines and Finite Element Analysis” held from Monday, January 05 – 09, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED, QIP funding.	8 th and 9 th January 2015
xxi)	Session Chair of international conference on Nascent Technologies in the engineering ICNTE 2015 at Fr. C. Rodrigues Institute of Technology Vashi Navi Mumbai	10 th January 2015
xxii)	Delivered Expert Lectures on “Fluid film bearing” at Faculty development programme on “Fault Diagnosis of Rotating Machines and Finite Element Analysis” held from Monday, January 05 – 09, 2015 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through AICTE SPONSERED QIP funding.	7 th Jan 2015
xxiii)	Delivered Expert Lectures on “Nanotribology and Bearing Design” State level staff development programme sponsored by Pune University, at Shri Sai Baba Institute Of Engineering, Research And Allied Sciences, Rahata. Shirdii,	31 st Jan 2014

xxiv)	Delivered Expert Lectures on “Bearing Design, Analysis and coding”, Short Term Training Program on “MATLAB based Numerical method for Engineers” during 24th to 28th November 2014 organized by AnnasahebDange College of Engineering & Technology, AshtaSangli sponsored by Shivaji University, Kolhapur.	26 th November 2014
xxv)	Delivered Expert Lectures at STTP on "Computer Aided Design And Analysis of Machine & Structural Elements" December 23th – 27th, 2013, Department of Mechanical Engineering Malaviya National Institute of Technology, Jaipur Rajasthan-302017, INDIA	27 th Dec 2013
xxvi)	Delivered Expert Lectures on “Tribological Aspects in Design” at KBTCE Nashik sponsored by BCUD, University of Pune, on 3rd and 4th October 2013.	4 th October 2013
xxvii)	Delivered Expert Lectures on “Machine Design”, at SES Yadavrao Tasgaonkar College of Engg. & Management Chandhai, Tal.- Karjat, Dist.- Raigad	26 th September 2013
xxviii)	Delivered Expert Lectures on “Finite Element Analysis and Bearing Design: at Faculty development programme “ Advances in Fault Diagnosis of Rotating Machines and Fluid Film Bearing ” held from Monday, June 10 – 14, 2013 at the Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai through TEQIP II funding.	14 th June 2013
xxix)	Delivered Expert Lectures on “Special Methods of Teaching Engineering Mechanics” State level staff development programme NITTTR Bhopal and RGIOT Mumbai,	Dec. 2004

35. Glimpse of Major Development in Mechanical Engineering Department & TPO

i)	Center of Excellence in Tribology, Condition Monitoring	2019-2025
ii)	Renovation of TPO HR, office, Interview & Group discussion room	2015-16

iii)	Developed Dynamics of Machine and Vibration Laboratory in the Department. (Through MODROB and TEQIP-II Funding agencies) Grants	2013-2014
iv)	Developed GUI Lab developed through Institute funds	2013-2014
v)	PG Research lab developed under TEQIP-II grant	2013-2014

36. Other Extension Tasks:(17)

i)	Ph. D. Thesis evaluation and Viva-Voce Examination worked as a External Examiner at Savitribai Phule Pune University, Pune on 13 th January 2022	13 th January 2022
ii)	Ph. D. Thesis evaluation and Viva-Voce Examination worked as a External Examiner at Savitribai Phule Pune University, Pune on 13 th January 2022	
iii)	Ph. D. Thesis evaluation and Viva-Voce Examination worked as a External Examiner at Savitribai Phule Pune University, Pune on 7 th June 2019	7 th June 2019
iv)	Expert member for Mock NBA for Mechanical engineering program at Birla Vishvakarma Mahavidyalaya (BVM) Engineering College, Vallabh Vidyanagar, Anand, Gujarat	13 th – 14 th July 2018
v)	Worked as a expert Local Enquiry Committee, Mumbai University.	10 March 2017
vi)	Expert member for interview of Shift Engineers panel at Haffkine Bio-Pharmaceutical Corporation Ltd.	14 th Nov. 2014

vii)	Member of taskforce for the finalization of syllabus for B Tech and M Tech in Packaging Technology and Applied management Science (PTAMS) at Indian Institute of Packaging, at Indian Institute of Packaging, Andheri Maharashtra	13 th – 14 th July 2013
viii)	MH-CET Architecture Examination Coordinator Year 2013-14	19 th May 2013
ix)	Chaired a Technical Sessions in International Conference on Advances in Mechanical Engineering, COEP Pune Maharashtra	30 th May 2013
x)	Member of Evaluation of the proposals received under scheme of AQIS, AICTE Delhi.	Dec 12- Jan 13
xi)	Appointed by Chancellor of Maharashtra as one of the judges in the Panel of Judges for the “Engineering and Technology Category in Maharashtra State” Inter University Research Convention-Avishkar 2012-13 Organized by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra.	6 th -9 th Jan. 2013
xii)	Member of DTE appointed Unauthorized Institute inspection committee	1 st -4 th May 2012
xiii)	Session Chair of international conference ICSPCON 2012 at Sardar Patel College of Engineering Andheri Mumbai	31 st May 2012
xiv)	Member of an expert panel for Doctoral Consortium at VJTI	27 th March 2012
xv)	Member, Result Moderation Committee, Mumbai University	2004-2006
xvi)	Member, Local Enquiry Committee, Mumbai University.	2004-2005
xvii)	Co-ordinator, Mumbai University, Engineering Examinations	2004-2006
xviii)	Developed Dynamics of Machinery Laboratory, Mechanical Engineering Department	2003-2006

37. INDUSTRY ACADEMIC COLLABORATION

- i. **Invited to Hon. Mr. Sanjay Kirloskar Chairman and MD of Kirloskar Brothers Ltd.** Pune to interact with students and faculty of Mechanical Engineering Department on 12th March 2014.

ii. **MoUs Signed with (13)**

Sr No	Details	Role	Period
1.	Northeastern University Boston USA	Principal Investigator	2025 to 2028
2.	KPCL Pune 2024 Product development Internship, project and industrial visit to UG PG students, Faculty interaction Industry guest sessions	Principal Investigator	2024-25
3.	Schneider Electric India 2024 MOU - Joint Research development program & Patent Sponsorship, Commercialisation.	Principal Investigator	2024-2027
4.	BIS Mumbai 2024 Internship, project and industrial visit to UG PG students, Faculty interaction Industry guest sessions	Principal Investigator	2024 for three years
5.	VJTI -WeGo Library Foundation 2024 for patent filling	Principal Investigator	2024 for three years
6.	Prin. L.N. Welingkar Institute of Management Development and Research Matunga 2024	Principal Investigator	2024 for three years
7.	MoU with Institute of Defence Scientists and Technologists (IDST) Pune for M Tech Defence Technology Program	Principal Investigator	2024 for three years
8.	HSBC Bank Internship, project and industrial visit to	Principal Investigator	2016

	UG PG		
9.	Schindler India Pvt Ltd 2015-2018 Internship, project and industrial visit to UG PG	Principal Investigator	2015-2018
10.	Tech Mahindra 2015-2018 Internship, project and industrial visit to UG PG	Principal Investigator	2015-2018
11.	Geometric Ltd 2014-2015 Internship, project and industrial visit to UG PG	Principal Investigator	2014-2015
12.	M/s. Star Coolers & Condensers Ltd. 2013-14 Internship, project and industrial visit to UG PG	Principal Investigator	2013-14
13.	M/s. Cummins India Ltd. Pune 2013-14 and 2014-17 Internship, project and industrial visit to UG PG	Principal Investigator	2013-14 and 2014-17

- iii. Expert Lecture organized on “**Tribological Testing and the Modeling of Real Systems**” VJTI, Mechanical Engineering Dept., Mumbai and Tribology Society of India, Mumbai–Pune Chapter, of **Mr George PLint, Managing Director, Phoenix Tribologies Ltd., UK**, on 30 January 2014.
- iv. **Visit of** Technische Hochschule Ingolstadt, Center of Applied Research (ZAF) , Esplanade 10 GERMANY- 85049 Ingolstadt (**Robert Lugner, Deputy President of Institute for Vehicle Safety Systems, Head of Occupant Safety, Robert.lugner@thi.de**) on 26 Dec 2013.

38. Introduction of self financing PG Courses in the Department of Mechanical Engineering

1. **M. Tech. Mechatronics ---Year 2004**
2. **M.Tech. Defence Technology --- Year 2021-22**

39. **Member of Editorial Board of**

- I. Editor of ‘Materials Science: An Indian Journal’, Trade Science journals, ISSN (PRINT): 0974-7486 since 2016,
- II. Editor of Journal of Tribology Science and Technology,

40. **Ph. D. Thesis evaluation and Viva-Voce Examination as a External Examiner/Chairman for**

- i. Savitribai Phule Pune University, Pune
- ii. Shivaji University Kolhapur
- iii. Mumbai University, Mumbai
- iv. Graphic Era Deemed to be University Dehradun, Uttarakhand
- v. Bharati Vidyapeeth Deemed University University in Pune, Maharashtra
- vi. MIT World Peace University (MIT-WPU) University in Pune, Maharashtra
- vii. Sanjay Ghodawat University Kolhapur Maharashtra
- viii. Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra
- ix. Institute of Chemical Technology (ICT) Public university in Mumbai, Maharashtra
- x. Visvesvaraya Technological University (VTU) Public university in Belgaum, Karnataka

41. **Reviewer for International Journals/conferences. (14)**

- i) Institute of Electrical and Electronics Engineers Inc. (IEEE)

- ii) Journal of Tribology Transaction (Taylor & Francis group)
- iii) Lubrication Science (Wiley)
- iv) Tribology International (Elsevier)
- v) Journal of Engineering Tribology (IMEchE Part J, SAGE)
- vi) Journal of vibration and Control
- vii) Journal of Engineering Science and Technology, School of Engineering, Taylor's University
- viii) Journal of Mechanical Engineering Research
- ix) Journal of Scientific Research and Reports
- x) International Journal of Physical Sciences (IJPS)
- xi) Science domain international
- xii) Journal of Engineering Science and Technology (JESTEC) Malaysia.
- xiii) Journal of Nonlinear Studies USA.
- xiv) Springer Journals Meccanica

42. Reviewer for International/National Books: (04)

- (i) Book reviewed, Title of book: Aspects of Composite Fabrication on Age-Hardened Alloy, CRC PRESS, Taylor & Francis Group. August 2019
- (ii) 'Kinematics, Dynamics, and Design of Machinery' by Kenneth J. Waldron (Stanford University, USA) Gary L. Kinzel (The Ohio State University, USA) and Sunil K. Agrawal (University of Delaware, USA), Wiley Publication, John Wiley & Sons Limited is a private limited company registered in England with registered number 00641132, Oct 2013.
- (iii) Tata McGraw Hill Education, "Design of Machine Elements" by V B Bhandari on 15 January 2015.
- (iv) Cambridge University Press India, book review of "Machine Design Volume 1" and "Machine Design Volume 2" July 2015

43. Research and Development Activity:

A) Member of Center of Excellence (TEQIP-II)

Center of Excellence - Complex & Non-linear Dynamical Systems (CoE-CNDS)

Duration: June 2016 to May 2020

Funding: 500.00 Lakhs

Theme:

The proposed CoE is aimed at developing a rigorous and unified framework for both theoretical and applied research in the area of complex and nonlinear dynamical systems by interconnecting scattered groups to create critical mass and complementarity.

Following are the key objectives:

- i. To foster in both ways fundamental studies and applications by collaborative research.
- ii. To develop a basis for a unified framework harnessing complex and nonlinear systems.
- iii. To motivate and integrate multi-disciplinary approaches to complex problems.
- iv. To contribute in nation's growth- technologically & socially by synthesising the obtained results and methodologies into unified strategies, criteria and procedures for design of new devices and processes.
- v. Facilitate the interchange of scientific results and ideas between various institutes, industries and research organizations within and outside India.
- vi. Promote use of open-source software in fundamental research areas.

B) Research Promotion Scheme (RPS) AICTE, New Delhi :_ (8-221/RRFD/RPS/policy-1/2014-15) completed

Technical Field of proposal: Machine Design-Fluid Film Journal bearing
Title of proposal: Experimental and Analytical/CFD Performance Analysis of Hydrodynamic cylindrical and conical Journal Bearing

Duration: June 2015 to June 2018

Funding: 22.69 Lakhs

Objective - Project Significance / Relevance with ongoing academic activities

In Journal bearing system wear and shaft misalignment are the common defects observed in real conditions. Both defects influence their dynamic behaviors, stability and life time and their detection is a very important task. An experimental setup will be developed in order to find the relationship among the friction force, the misalignment angles, and wear depth. In quest of this a significant attention has been paid by the researchers and bearing designers in this regard. It has also been observed no comprehensive study is available in the area of Hydrodynamic cylindrical and conical journal bearing system. Keeping in view the gaps as indicated in the literature review. The work proposed to be carried out to accomplish the following objectives:

- To carry out the performance analysis of circular journal bearings
- To study the combined influence of wear and journal misalignment on the performance characteristics of a fluid film journal bearing system.
- To evaluate the comparative performance of circular journal bearing vis a vis the conical journal bearing system.
- To study the influence of wear on the performance characteristics of conical fluid film journal bearing system.

C) Research Promotion Scheme (RPS) AICTE, New Delhi Experimental and Analytical Performance Analysis of Hydrostatic/ Hybrid Conical Fluid Film Journal Bearing,

Duration: August 2020 to August 2023

Funding: Rs. 20.77 Lakhs

D) Research proposal under TEQIP-3

Title: Design And Testing Of 5 Kw Multi-Fuel Biomass Gasifier For Rural Electrification And Thermal Applications

TEQIP Collaborative Research Scheme (CSR)

Duration: 18th June 2019 to 30th September 2021

Funding: 16.42 Lakhs

Co-PI- Dr V M Phalle and PI- Dr. Prashant Singh Chauhan, Post Doc. (PSU, Thailand), Ph. D. (MANIT, Bhopal)

Assistant Professor, Dept. of Mechanical Engineering, Gaya College of Engineering, Gaya, Bihar (India)

E) Gait Analysing Shoe with Saurbh Gupta B Tech Student

Texas Instruments India Innovation Challenge Jan 2017 - Mar 2017

- Equipped a shoe with inertial sensing unit to develop a portable and affordable device for gait analysis
- Integrated the data from the inertial sensor using the trapezoid rule for numerical integration, after filtering it to generate a 3D plot of the gait cycle
- The force sensors placed on the sole helped in analysing the standing posture of the user. It also gave the heel strike points where integration parameters of the gait plot were reset to avoid drift due to integration

44. List of Ph.D. Research Students

N o.	Name	Contact Details	Registration	Topic	Co-Guide	Status
1.	H.P. Khairnar	09221400737 hpkhairnar@vjti.org.in	2012 (PT)	Friction Modeling of Automotive Brakes	Dr. S.S. Mantha	Degree Awarded 2016
2.	Prashant G. Khakse	09224885779 prashantkhakse@yahoo.com	2012 (PT)	Performance Analysis of non recess Conical	Dr. S.S. Mantha	Degree Awarded 2016
				Hybrid Journal Bearing		
3.	Ajay Kumar Gangrade	08879463624 a_gangrade@hotmail.com akgangrade@somaiya.edu	2012 (PT)	Performance Analysis of a Hydro-dynamically Lubricated Conical Journal Bearing"	Dr. S.S. Mantha	Degree awarded 2019
4.	Sangita N. Bansode	09819090169 sangeetabansode@somaiya.edu	2012 (PT)	Analysis of Shrinkage and Distortion in Thin Walled Complex Geometrical Investment Casting	Dr. S.S. Mantha	Degree awarded 2019
5.	Dinesh Kamble	09167696169 kambledinesh@gmail.com	2013 (PT)	Performance of conical hydrostatic bearing with nano fluids	Dr. S.S. Mantha	Degree awarded 2024
6.	Sangram S. Patil	09422654944 Sangram.patil1989@gmail.com	2014 (FT)	Vibration Signature Analysis Based Fault Detection and Life Prediction of Anti-friction Bearing using Machine Learning	--	Degree awarded 2019
7.	Kiran H. Ghadyalji	09987192046 ghadyalji@yahoo.com	2014 (PT)	Pressure Vessel	--	--
8.	S R Pawar	09869600471	2015 (PT)	Influence of Restrictors on The Performance of Hole Entry Worn Hybrid Conical Journal Bearing.	--	Degree awarded 2019
9.	Vishwadeep H.	09987897706	2016(F T)	Gear Dynamics and Machine Learning	--	Degree awarded 2021
10.	P D Kulkarni	09850836052	2016 (PT)	Journal Bearing and CFD	--	Ongoing
11.	Pallavi Khaire	9870119469	FT 2019	Conditioning Monitoring & IOT	--	Pre-synopsis competed
12.	Avinash Mandrah	8827221688	FT 2019	Conical Bearing and AI	--	Ongoing
13.	Ramesh Bhandare	9404564018	2023	Fault detection of Gear Box by using Machine Learning	--	Ongoing

14.	Nilesh Dube	9004238392	2024		--	Ongoing
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A. List of Publications in International peer Reviewed Journals:

1. Vishwakarma, N., & Phalle, V. M. (2017). "Analyze Different Taper Sized Assembly".
2. Vishwakarma, Nilesh., Renuke, A. V. I. N. A. S. H., & Phalle, V. M. (2018). "Effect of tapered interference fit between impeller and shaft in turbo machines". *Stroj. Cas. J. Mech. Eng*, 68, 25-32.
3. Tayade, A., Patil, S., Phalle, V., Kazi, F., & Powar, S. (2019). "Remaining useful life (RUL) prediction of bearing by using regression model and principal component analysis (PCA) technique". *Vibroengineering Procedia*, 23, 30-36.
4. Durge, N. K., Mantha, S. S., & Phalle, V. M. (2021). Interpretive Structural Modeling (ISM) for analysis of factors affecting marketing efficiency of fresh mango supply chain: Indian perspective. *International Journal of Supply and Operations Management*, 8(4), 416-438.
5. Mansi, D., Jayendiran, R., Perumal, V., & Phalle, V. M. (2024). "FLUID-STRUCTURE ANALYSIS OF BLOOD FLOW IN AN OCCLUDED DEFORMABLE ARTERY". *JOURNAL OF TRIBOLOGY*, 1(1), 15-25.
6. Bhat, H., Yadav, R., Bhudhar, S., Mandarha, A., & Phalle, V. M. (2025). "Vibration Analysis of Hydrodynamic Conical Journal Bearing and Fault Prediction Using Machine Learning". Available at SSRN 4611915.
7. Chapter 22 Simulation of Self Compensating Hydrostatic Bearing Using Finite Element Analysis, Sumit J. Patil, Abhishek N. Khairnar, Vikas M. Phalle, and P. K. Limaye, *Advanced Structured Materials*, Springer, Book Series, series 19th July 2020.
8. Chapter 21 Vibration Analysis Based Spalling Defect Severity Assessment of Spur Gearbox Using a Dynamic Model Vishwadeep C. Handikherkar & Vikas M. Phalle, *Advanced Structured Materials*, Springer, Book Series, There are 126 volumes in this series, 19th July 2020.
9. Khaire Pallavi, Phalle V. M. (2022), Experimental Fault Identification in Journal Bearings Using Vibration-Based Condition Monitoring, *International Conference on Vibration Engineering, Science, and Technology*, organized by CVS INVEST 2022, Navi Mumbai, and Fr. C. Rodrigues Institute of Technology, Vashi, *Vibration Engineering: Modeling, Simulation, Experimentation, and Applications*, CRC Press Taylor & Francis Group.
10. Prashany G Khakse, Vikas M. Phalle, 2024, Comparison of Conical Hybrid Journal Bearing Performances for Varying Speeds, *Journal of Engineering Mathematics (SCI)*, Vol. 147(6), pp. 1-21.
11. Ramesh V Bhandare, **Vikas M Phalle**, Vishwadeep C Handikherkar, Sangram S. Patil, Weighted Aggregation Approach and Tree-Based Ensemble Technique for Anomaly Detection, *Journal of Failure analysis and prevention*, *Journal of Vibration Engineering & Technologies and Fault Severity Analysis in Gear Fault Diagnosis*
12. Mogal, S., R. V. Bhandare, **V. M. Phalle**, & P. B. Kushare. (2024). Fault Diagnosis and Prediction of Remaining Useful Life (RUL) of Rolling Element Bearing : A review state of art. *Tribologia - Finnish Journal of Tribology*, 41(1-2), 28-42. <https://doi.org/10.30678/fjt.141503>
13. Girase Shailendrasingh, Kothavale Basavraj, **Phalle Vikas**. (2025) Tribological

14. **Vikas M. Phalle**, Avinash Mandarha (2022), Influence of Bearing Geometry on the Fictional Characteristic of Multirecess Hybrid Journal Bearing, GIS SCIENCE JOURNAL
15. Pallavi Khaire, and **Vikas Phalle**, (2023), A smart fault identification system to identify misalignment and Antifriction bearing defects using simulation-driven vibration analysis, Archive of Mechanical Engineering.
16. Pallavi Khaire, and **Vikas Phalle**, (2023), A smart fault identification system for ball bearing using simulation-driven vibration analysis, Journal of Mechanical Engineering, Vol.70(2), pp 247-270.
17. Pallavi Khaire, and **Vikas Phalle**, (2023), A Simulation-Driven Machine Learning Model to Identify Defects at Ball Bearing Raceways using Vibration Analysis, Tribologia, (Accepted)
18. Kamble D. H., **Phalle V. M.**, Mantha S. S., (2022) "Wear Influence on Performance of Conical Hydrodynamic Journal Bearing.", International Journal of Tribology in Industry, Vol. 44, issue No. 3, pp. 407-423, 2022. DOI 10.24874/ti.1243.01.22.04.
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List of M Tech Project Students

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- [2]. Sagar Bapusaheb Dhongade, 172090007, Design and development of industrial gearbox. Transprecision Gears Pvt Ltd, 9920024411, sagardhongade300@gmail.com Akshay Bichu. 2019.
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