

# CURRICULUM VITAE

**MR. VIJAYSINGH BALASO SURYAWANSHI**

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## **JOB OBJECTIVE**

- To get a position in an educational institution and put to good use of my knowledge and team work skills to achieve the institution goals and there by Personal goals.
- To work in a challenging environment, enhancing my skills and contributing the overall growth of organization.

## **EDUCATIONAL QUALIFICATION**

Sr. no	Degree & Specialization	University/College	Year of Passing	Percentage /C.G.P.A	Class obtained
1.	PhD (Scholar)	Walchand College of Engineering, Sangli. Shivaji University	Registered, 2018 (Progress Reports Submitted)	-	-
2.	M. Tech (Mechanical-Production Engineering)	Walchand College of Engineering, Sangli	2010-2012	7.89/10 (CGPA)	First class with Distinction
3.	B.E (Mechanical Engineering)	TKIET, Warananagar	2005-2010	66.67	First class with Distinction

## **TEACHING EXPERIENCE**

Sr.No	Name of College	Post	Period
1	Sanjay Ghodawat Institute (Polytechnic), Atigre, Kolhapur	Lecturer	3 <sup>rd</sup> February 2025 to Till
2	TKIETP, Warananagar	HOD	6 <sup>th</sup> February 2023 to 7 <sup>th</sup> July 2024
3	Ashokrao Mane Group of Institutions, Vathar	Assistant Professor (UGC Approved)	16 <sup>th</sup> August 2013 to 11 <sup>th</sup> July 2022
4	Ashokrao Mane Group of Institutions, Vathar	Assistant Professor	1 <sup>st</sup> June 2013 to 15 <sup>th</sup> August 2013
5	Ashokrao Mane Group of Institutions, Vathar	Assistant Professor	16 <sup>th</sup> July 2012 to 15 <sup>th</sup> May 2013

## **ACADEMIC PERFORMANCE**

### **Appreciation letter received / Honor received:**

- Certificate is awarded by Ministry of Education's Innovative cell, Government of India for Exceptional contribution as a Primary Evaluator in "Toycathon 2021" an International level Competition.

### **Under Graduate in Mechanical Engineering: 12 years' experience**

- Worked as HOD, Mechanical Engineering Department and also Faculty Centre Coordinator for engineering admission process.

- Ph D. (Scholar) in Mechanical Engineering, progress reports submitted, waiting for Spiral.
- Learned basic languages like Java, Python, SQL, Linux software for value addition and Automation Studio for Mechanical Engineering course.
- Supervised several seminars and about 33 Projects of final year B. E. Mechanical Engineering students and also 25 Mini projects of pre-final year.
- Worked as Training and Placement Cell departmental coordinator, involved as a lead faculty to organize software development programs, Aptitude training programme to Final year students and pre-final year students.
- Worked as Admission committee member and counseling faculty for admission work.
- Worked as a Paper Setter for the Examinations of Shivaji University, Kolhapur and DBATU.
- Worked as Departmental NBA coordinator criteria 9, Departmental NAAC Coordinator, facing various LIC committees as a coordinator of student support system.
- Handle responsibilities of Academic Coordinator, Institutional Transportation Facility In-charge, Parents Meet Interaction In-charge.
- Worked as MESA (Mechanical Engineering Students Association) committee In-charge under this organized student related co-curricular and extra co-curricular activities and Technical events like Reflex, Engenious etc.
- Worked as RAC, IFP, Manufacturing processes, Metallurgy subject Lab In charge. Under this Developed and initiated the RAC lab consultancy process.
- Innovative practices adopted in teaching learning process by using Automation studio program for IFP lab and Prezi software for presentations.
- E-Learning resources developed by using Fluid Simulation Software for Hydraulic and Pneumatic circuits. Used GATETUTOR software and Uploaded 400+ questions divided in 6 topics of subject Manufacturing Processess-1 on GATETUTOR for students to prepare for examination
- Worked in National Level various competitive exams as a NTA Observer:
  - Worked as a NTA Observer and Representative in NEET 2021, NEET 2020, NEET 2019
  - Worked as a NTA Observer in JEE 2021, JEE 2020, JEE 2019
  - Worked as a NTA Observer in GPAT 2020, GPAT Feb 2021
  - Worked as a NTA Observer in UGC Net 2020, GPAT Feb 2021

## PROJECT UNDERTAKEN

### **April 2018 -Present Ph. D project:**

Project Title: “Design, Development and Experimental Investigation of Miniature Moving Coil Pulse Tube Cryocooler” Sponsored by IIT, Powai.

### **July 2010 - August 2012- M.E. Dissertation:**

Project Title: “Evaluation of Surface Roughness by Optical Technique using Ruby laser beam” Sponsored by Institution of Engineers India, Kolkata.

### **2010 Bachelor of Engineering (Mechanical Engineering):**

Project Title: “Design and development of Intensive sand Mixer”.

## WORKSHOP/SEMINAR/STTP/FDP/PAPER PRESENTATION ATTENDED

- Life Member of ISTE (The Indian Society for Technical Education) an organization for promoting the quality and standards in technical education.
- Patent filed on “Miniature Moving Coil Pulse Tube Cryocooler for Space Application”, Design Patent, Application number 450004-001, March 2025.
- Published paper on “Review of Integrating Gantry Mounted Degassing Machine”, International Journal of Research Publication and Reviews, Vol 6, Issue 4, pp 8961-8966, April 2025
- Published paper on “Review of Integrating Wind and Solar Energy for Reliable and Sustainable Power Production”, International Journal of Research Publication and Reviews, Vol 6, Issue 4, pp 7637-7642, April 2025
- Presented and Published Paper on “Optimized Miniature Moving Coil Compressor for Stirling Pulse Tube Cryocooler: A CFD and Finite Element Approach” in International Conference on Recent

trends in Technological Development 2025 at Padmashri Vitthalrao Vikhe Patil Institute of Technology and Engineering, Loni (Maharashtra) in 10th -11th April 2025.

- Attended One-Week International Faculty Development Program (FDP) on “New Era of Manufacturing - Challenges and Opportunities”, jointly organized by D.Y. Patil college of Engineering and Technology, Kolhapur and DICMAPI University of Naples Federico II, Italy held from 10th March - 15th March 2025.
- Presented and Published Paper on “Review of recent advances in Miniature Stirling Pulse Tube Cryocooler operated on Moving Coil Linear Compressor” in 5<sup>th</sup> International Conference Techno Societal 2024 at SVERI Pandharpur (Maharashtra) in 13<sup>th</sup> -14<sup>th</sup> December 2024.
- Published paper on “Design, Modelling, CFD and FEA Analysis of Miniature Moving Coil Compressor for Pulse Tube Cryocooler”, Nano Technology Perception Scopus Indexed Journal, vol.21, s1, ISSN 1660-6795, pp. 666-678
- Presented Paper on “Recent Techniques available for Measurement of Surface Quality” in International Conference ICOMET’12, Palai (Kerala) in 20 January 2012.
- Presented Paper on “Optical system for measurement of Surface Roughness” in International Conference ICCTCMECAT’12, Deogiri College, Aurangabad in 23-25 March 2012.
- Paper Title: “Optical system for measurement of Surface Roughness” Published in International Journal of Advances in Management, Technology and Engineering Sciences (ISSN 2249-7455) Volume 6, pp.32-35.
- Paper Title: “Method of Surface Roughness Evaluation using Ruby Laser Beam” Published in International Journal of Engineering Research and Applications (IJERA), (ISSN: 2248 -9622) Vol. 2, Issue 3, May-Jun 2012, pp.1512-1515
- Workshop on” Curriculum Development of SE Mechanical Engineering” held on 31th December, 2013 organized by Mechanical Engineering Department Of AMGOI Vathar (Maharashtra).
- One day Training Program on “Role of Teacher in Knowledge Management & Evaluation Process of NBA Accreditation held on 2th FEB 2014 organized by AMGOI Vathar (Maharashtra).
- Participated in Workshop on ‘Multibody Dynamics Analysis with ADAMS’ held in 1 Dec. 2014 to 5 Dec. 2014 at ADCET, Ashta.
- Participated in FDP on ‘Accreditation by NBA June 2015 Format’ held in 8th November 2015 at AMGOI, Vathar.
- Completed the Faculty Development Program on “CAM (Delcam), Fluid Power (Automation Studio), CIM/FMS (Open CIM & Witness), Robot Simulation, in associated with IndiaSoft Technologies (P) LTD, Pune held in 28th Dec.2015 to 31th December.2015 at AMGOI, Vathar.
- Participated in One Day Workshop on “Overall Personality Development” held on 18th Feb 2015, Under Lead College activity, Shivaji University Kolhapur.
- Participated in Workshop on ‘Virtual Lab setup for refrigeration and air conditioning lab equipments’ held in 20th August 2016 at KIT, college of Engineering, Kolhapur.
- Participated in One Week Faculty Development Program on “Induction Training” in association with Faculty Chapter, ISTE New Delhi, during 3rd Nov 2016 to 9th Nov 2016.
- Participated in Workshop on ‘Research Opportunities’ held in 1 Dec. 2016 to 6 Dec. 2016 at SIT, Yadrav.
- Participated in workshop on ‘Research Methodology’ held in 13th June to 15th June 2017 at AMGOI, Vathar.
- Attended one day seminar on “Neural Network, Fuzzy Logic & Genetic Algorithm” organized by department of Mechanical Engineering and Computer Science & Engineering in association with student chapter ISTE New Delhi on 23rd September,2017.
- Participated in One Week Faculty Development Program on “Technical Computing using MATLAB (TechnicComp-2018)” jointly organized by department of mechanical Engineering, Electrical Engineering, Electronics & Telecommunication Engineering, Computer Science & Engineering in association with Faculty Chapter, ISTE New Delhi, held on 18rd to 22th June 2018.
- Participated in three Day Faculty Development Program (FDP) on “Soft Computing Techniques for Modeling & Optimization in Mechanical Engineering” held on 13th to 15th March 2019, Under Lead College activity, Shivaji University Kolhapur.
- Attended short term training program on “Optimization Techniques and Awareness on Research” at AMGOI Vathar Kolhapur, held on 30 December 2019 to 03 January 2020.
- One week webinar series on “Advance CNC and VMC Programming” organized by Department of mechanical engineering, Kolhapur Institute of Technology’s, from 2nd June to 6th June

2020.

- Virtual one-week STTP on “Vibration Control of Rotating Machines” Under Lead College Scheme of Shivaji University, Kolhapur organized by Department of Mechanical Engineering, ADCET, Ashta during 8th -12th June 2020.
- Attended TEQIP Sponsored online FDP on "Applications of Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) using ANSYS" at MED, GCE Karad, 13 June -17 June - 2020
- Science Leadership workshop organized by central university of Punjab, Bhatinda from June 22 to June 28, 2020.
- Participated in webinar on “Shape memory alloys: applications and research opportunities” held on 7th July 2020, organized by department of mechanical engineering, Vignan institute of technology and science, Hyderabad
- AICTE AQIS Sponsored Short Term Training Program on “Advances in Additive Manufacturing” organized by Siemens Centre of Excellence for Digital Manufacturing and Robotics under NAFETIC at Yeshwantrao Chavan College of Engineering, Nagpur, conducted between 20th to 25th of July, 2020.
- One Week Online Faculty Development Program on “Nan science and Nanotechnology- Current Perspectives” jointly organized by the Department of Physics & Department of Mechanical Engineering, G. H. Rasoni College of Engineering, Nagpur in association with The Institution of Engineers (India), Nagpur Local Centre during 27th July to 1st August 2020.

#### AREA OF INTERST/ SUBJECT TAUGHT

- Interested to know Innovative Techniques to analysis of Mechanism and Different Tools and Techniques of Drawing and Drafting of various models.
- Interested to know current Affairs and won the prize in quiz Competition during College days.
- Interested in singing, Reading, Debate on Current issues, Playing Chess, Cricket.
- Subject Taught: Industrial Fluid Power, , Material science and Metallurgy, Manufacturing Process, Refrigeration and Air conditioning, Metrology and Quality Control.

#### PERSONAL ROFILE

Name : Vijaysingh Balaso Suryawanshi  
Date of Birth : 19/05/1988  
Gender : Male  
Marital Status : Married  
Languages Known : English, Hindi and Marathi  
Permanent Address: A/P- Talsande, Near Thorat Hospital, Tal-Hatkanangle, Dist- Kolhapur, Pincode-416112.

#### DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Yours faithfully,



VIJAYSINGH SURYAWANSHI