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FACULTY PROFILE

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Name	**Dr. VIJAY PRATAPSING RATHOD**
Address	Government Polytechnic Ratnagiri
Date of Birth	N.A.
Designation	Lecturer in Mechanical Engineering (Selection Grade)
Date of Joining	01-12-2001
Mobile No.	N.A.
E-Mail ID	vprathod@gpmumbai.ac.in

Educational Qualifications		**U.G.**	**P.G.**	**PhD.**
	Degree	B.E	M. E.	
	Specialisation	Production Engineering	Production Engg. (Advanced Mfg.)	Mechanical Engineering.
	Institution Name	SGGS C&T, Nanded	Fr. CRCE, Mumbai	MNIT, Jaipur
	University/Board	Dr. BAMU, Aurangabad	University of Mumbai	MNIT, Jaipur
	Percentage	66%	63%	-
	Remark	Distinction	First Class	-
	Year of Passing	1997	2006	2011

Experience	**Institution Name**	**No. of Years**
	Fr. CRCE, Bandra, Mumbai	**1**
	Government Polytechnic Thane	**10**
	Government Polytechnic Mumbai	**6**
	Government Polytechnic Ratnagiri	**3**

Subjects Taught	**Machine Design, Theory of Machines**

Attended Workshop/ Trainings:
1. Image processing using MATLAB (2 Week), NITTTR, Kolkata
2. Outcome based Education: A step towards excellence (1 Week), GEC, Karad
3. MATLAB Application in engineering and Science (1 Week), GEC, Karad
4. Machine Learning and Deep learning application in Engg. and Secience (1 Week), GEC, Karad
5. Internet of things (IoT) (1 Week), Dr. BATU, Lonere

Publications & Research Papers: (Please see next page)

Membership & Social Activities: Indian institute of industrial Engg.
Senior Member No: SMIIE 9892

Publications
(International Journals/ Conferences)

1. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2011), "Probabilistic modeling of fatigue damage accumulation for reliability prediction", *International Journal of Quality, Statistics, and Reliability,* **Vol. 2011, ID 718901, 10 pages.** (DOI:10.1155/2011/718901)

2. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2011), "Reliability-based design optimization considering probabilistic degradation behavior", *Quality and Reliability Engineering International,* **Vol.28, pp. 911-923**. (DOI: 10.1002/qre.1281)

3. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2013), "Optimizing Reliability-based Robust Design Model Using Multi-Objective Genetic Algorithm", *Computers and Industrial Engineering.* **Vol. 66 (2), pp. 301-310.** (http://dx.doi.org/10.1016/j.cie.2013.06.018)

4. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2010), "Reliability Based Design Optimization by Integrating Degradation to Improve Reliability of the Product for a Given Life Target", *International Conference on Frontiers in Mechanical Engineering (FIME-2010),* May 20-22, 2010, National Institute of Technology, Surathkal, India.

5. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2010), "Capturing Life Cycle Issues by Incorporating Degradation Behavior in Reliability Based Design Optimization", *IIE 60th Annual Conference Proceedings,* June 05-09, 2010, Cancum, Mexico.

6. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2010), "Capturing life cycle issues by incorporating degradation behavior in RBRDO", 2nd*International Conference on Production and Industrial Engineering (CPIE-2010) ,* December 03-05, 2010, Dr B R Ambedkar NIT, Jalandhar, India.

7. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2011), "Reliability-based robust design optimization: A comparative study", *Industrial Engineering and Engineering Management (IEEM-2011),* December 06-09, 2011, Singapore. **(DOI: 10.1109/IEEM.2011.6118179).**

8. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2011), "Multi-Objective Genetic Algorithm for Priority-Based Robust Design", *Second International Conference on Simulation Modeling and Analysis (COSMA-2011),* December 14-16, 2011 Coimbatore, India.

9. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2012), "An Evolutionary Optimization Approach to Reliability-based Robust Design Model", *Industrial and System Engineering Research Conference (ISERC-2012),* May 19-23, 2012, Orland, FL, USA.

10. Rathod, V., Rathore, A., and Yadav, O.P., (2012), "Pareto Filter For Dual RSM-based Robust Design Models", *International Conference on Innovations in Design and Manufacturing (InnDem-2012),* December 5-7, 2012, PDPM IIITDM, Jabalpur, India.

11. Rathod, V., Yadav, O.P., and Rathore, A., (2013), "Multi-Response Surface Optimization Using Axiomatic design", *Industrial Engineering and Engineering Management (IEEM-2013),* December 10-13, 2013, Bangkok, Thailand. **(DOI: 10.1109/IEEM.2013.6962457).**

12. Rathod, V., shaikh, U., Yadav, O.P., and Rathore, A., (2013), "Swine Influenza Model Based Optimization using Seasonal Flu Shots (SIMBO-SS)", *4th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO-2015),* September 2-4, 2015, Delhi, India. **(DOI: 10.1109/ICRITO.2015.7359367).**

Expert Lectures Delivered

1. Expert lecture delivered on **"Genetic Algorithm: An Evolutionary Optimization Technique"** for Master's Students on March 28, 2012 at Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai.

2. Expert lecture delivered on **"Reliability based Robust Design & Optimization"** in one-week MSBTE sponsored FDP on **"Quality Improvement Techniques"**, Jan 14-18, 2013 at Government Polytechnic, Thane (Jan 18, 2013).

3. Expert lecture delivered on **"Quality, Reliability & Optimization Techniques"** for Faculties of Mechanical Engineering Department on March 22, 2013 at Sandip Institute of Technology & Research Centre, Nashik.

4. Expert lecture delivered on **"Statistics & Response Surface Methodology"** in one-week BCUD, Savitribai Pule Pune University (SPPU) sponsored STTP on **"Research Methodology & IPR"**, Nov 17-24, 2015 at Sandip Institute of Technology & Research Centre, Nashik (Nov 22, 2014).

5. Expert lecture delivered on **"Statistics and Optimization Techniques"** in one-week STTP on **"Research Methodology & Innovations"**, Nov 20-24, 2015 at Sandip Institute of Technology & Research Centre, Nashik (Nov 21, 2015).

6. Expert lecture delivered on **"Mathematical Modeling"** in two days SPPU sponsored State Level seminar on **"Mathematical Modeling in Engineering Projects"**, Jan 18-19, 2016 at Sandip Institute of Engineering and Management (SIEM), Nashik (Jan 19, 2016).

7. Expert lectures delivered and conducted two days FDP on **"Mathematical Modeling & Modern Optimization Tools"** on Jan 21-22, 2016 at M.I.T. Academy of Engineering, Alandi (D), Pune.

8. Expert lecture delivered on **"Regression Analysis & RSM"** in one-week STTP on "**Design of experiments & Optimization Techniques"**, May 09-13, 2016 at Deogiri Institute of Engineering and Management Studies, Aurangabad (May 12, 2016).

9. Expert lecture delivered on **"Swine Influenza Model Based Optimization using Seasonal Flu Shots (SIMBO-SS)"** in two-days' workshop on "**Optimization Techniques for Engineering Applications"**, on Jan 08-09, 2018 at Sinhagad College of Engineering, Vadgoan, Pune (Jan 08, 2018).

10. Expert lecture delivered on **"Evolutionary Techniques from perspective of CAE"** in AICTE-ISTE sponsored one-week STTP on "**Recent Advances in Computer aided Engineering"**, on Jun 25-30, 2018 at Rajendra Mane College of Engineering & Technology, Ambav – Devrukh, Ratnagiri (June 30, 2018).

11. Expert lecture delivered on **"Fuel Saving Approaches and habits"** in MSRTC sponsored "**Fuel saving Campaign (Indhan Bachat Mohim)"**, on Jan 16-feb 15, 2019 at MSRTC Workshop, Lanjaa, Ratnagiri (Jan16, 2019).

12. Expert lecture delivered on **"I-Scheme: Need of an Hour"** in MSBTE sponsored workshop on **"Curricula Development of food Technology"**, on February 11, 2019 at Government Polytechnic Malwan (Feb 11, 2018).

13. Expert lecture delivered on **"Genetic Algorithms and its applications"** in TEQIP-III sponsored one-week STTP on "**Applications of Computing Techniques in Research"**,

on Feb 25- March 1, 2019 at Government College of Engineering, Jalgoan (February 27, 2019).

14. Expert lecture delivered on **"Response Surface Methodology based Optimization"** for 3rd year students of Mechanical Engg on March 06, 2019 at Finolex Academy of Management and Technology, Ratnagiri.

15. Expert lecture delivered on **"Capturing life Cycle Issues in an Early Design Optimization Through Degradation Modeling"** in AICTE-ISTE approved one-week STTP on "**Product Lifecycle Management"**, on June 24- June 29, 2019 at Shivajirao S. Jondhle College of Engg. and Technology, Asangoan, Dist. Thane (June 27, 2019).

16. Expert lecture delivered on **"Reliability based design"** in AICTE-ISTE approved one-week STTP on "**Reliability Engineering"**, on July 01- July 05, 2019 at Shivajirao S. Jondhle College of Engg. and Technology, Asangoan, Dist. Thane (July 01, 2019).

Session Chaired & Events Judged

1. A session chaired in a MSBTE sponsored State Level paper presentation **"Technocratz 2012"** in Mechanical Engineering Group organized on Sept 15, 2012 at Agnel Polytechnic, Navi Mumbai.

2. A session chaired in a State Level Conference on **"Advanced Computational Techniques (ACT-2013)"** on March 29-30, 2013 organized by SKN-Sinhgad Institute of Technology & Science, Lonavala under QIP Scheme of University of Pune.

3. A session chaired in a MSBTE sponsored National Conference on **"Evolutionary Optimization: Techniques and Applications (NCEOTA-2014)"** on March 11-12, 2014 at Government Polytechnic Mumbai.

4. Judged a Project Exhibition cum Competition **"Technofest 2015"** in Mechanical Engineering Group organized on Feb 17, 2015 at Thakur Polytechnic, Mumbai.

5. A session chaired in a MSBTE sponsored State Level paper presentation **"Technocratz 2015"** in Mechanical Engineering Group organized on Sept 15, 2015 at Agnel Polytechnic, Navi Mumbai.

6. A session chaired in **"Conference on Technologies for Future Cities 2019"** on Systems and Control track organized on January 8-9, 2019 at Pillai College of Engineering, Panvel, New Mumbai.

Professional Contributions

1. Worked as **Asst. Project Officer** and Later on as Project Officer for **Community Polytechnic scheme** sponsored by Ministry of Human Recourses Development (MHRD) and contributed in various activities such as Manpower development, Transfer of technology, Information Dissemination and Community Services etc.

2. Worked as **In-charge Head of Department (HOD)** of **Information Technology** for 3 years at Government Polytechnic Thane.

3. Initiated **Yashawantrao Chavan Maharashtra Open University (YCMOU)** study centre at Government Polytechnic Thane for Diploma/Degree in Mechanical Engineering.

4. Conducted one week "**Trainers Training Program**" for Community Polytechnic staff at Government Polytechnic Thane.

5. Worked as **Coordinator** for **Community College scheme** sponsored by Ministry of Human Recourses Development (MHRD) and successfully launched **"Electronics Security"** course in collaboration with Zicom Electronic Security Systems Limited at Government Polytechnic Mumbai.

6. Organized a MSBTE sponsored National Conference on **"Evolutionary Optimization: Techniques and Applications (NCEOTA-2014)"** on March 11-12, 2014 and worked as **Convener for the conference** at Government Polytechnic Mumbai.

7. Working as **Coordinator** for development of outcome-based **I Scheme Curricula for Diploma in Production Engineering** of Maharashtra State Board of Technical Education, Mumbai.

8. Working as **Mentor** for development of outcome-based **I Scheme Curricula for Diploma in Food Technology** of Maharashtra State Board of Technical Education, Mumbai.

Member of Professional Body

1. Indian Institute of Industrial Engineering. **(Senior Member No: SMIIE 9892)**