


## BIO-DATA

CONTACT INFORMATION											
<b>Professor/Dr.</b>											
<b>Surname</b>			<b>First name</b>				<b>Middle name</b>				
RAUT			DADARAO				NIWRUTTI				
<b>Date of birth</b>	<b>d</b>	<b>d</b>	<b>m</b>	<b>m</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>Designation : PROFESSOR</b>		
	1	0	0	8	1	9	6	7			
<b>Mailing Address</b>	Department of Prod, VJTI, Near Five Gardens', Matunga, Mumbai- 400019						<b>District</b>	<b>Mobile:</b>			
							MUMBAI	<b>Off. Telephone:</b> 022 24198237			
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							Thane				
							<b>State</b>				
							MAHARASHTRA				

<b>PRESENT POSITION</b>	Professor
<b>Pay Scale &amp; present Pay</b>	37400-67000 AGP 10000 (Basic- Rs. 59,180/-)

<b>JOB DESCRIPTION:</b>
<b>Working as A Professor for the Dept. Mech./Prods</b>

Educational credentials		
S. No.	Degree	Discipline
1	B E -fromVJTI-	Prod( s/w)
2	M E	Mech(CAD/CAM)
3	Ph D	Mechanical
4	M B A	Operations/HR
5	LLB	

TOTAL YEARS OF PROFESSIONAL EXPERIENCE (in Nos.)					
Teaching	R&D	Industry	Consultancy	Any other (pl. specify)	Total
19 Yrs	10Yrs(P hD Guidance in VJTI)	05Yrs	<i>Consultancies with Customs, RTO, Godrej, Water Park, Govt of Maharastra Social welfare Dept,</i>	-	24 years

<b>Research Area:</b> <i>Manufacturing &amp; Industrial Engineering</i>			
<b>Research guidance</b>	<b>PG</b>		<b>Doctoral</b>
	52		10 Completed, 06 Ongoing
<b>Publications</b> (Please provide details of the papers etc. in a separate sheet)			
<b>No. of publication in Web of Science Journal last five Year</b>	<b>Journals [in Nos.]</b>		
	<b>National</b>	<b>International</b>	<b>'H' Index</b>
	22	32	5

<b>Areas of general expertise</b> (Please identify five areas you have significant experience and/or expertise. <b>For each identified area, please briefly describe your background – if need be enclose additional sheet.</b> Some indicative areas are given below )	
General education curriculum	<ul style="list-style-type: none"> <li>• Dean Admin of Autonomous VJTI for 04 years executed two round of curriculum Revisions for UG &amp; PG</li> <li>• Member of BoS of GSIT Indor (MP) and KiT, Kolhapur form last 08 year years with focus of formulation of rules and curriculum.</li> <li>• Member of Research recognition committee of KiT Shivaji University .</li> </ul>
Critical analysis and reasoning	<ul style="list-style-type: none"> <li>• Member of experts panel for board of Aperantship</li> <li>• Member of expert panel for Ratan Tata Foundation scholarship form last 3 years.</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>• Undergo personality and business communication skill course in IIT.</li> <li>• Executed the communication modules for economically needy students at VJTI.</li> <li>• One week Managerial Capacity Training at IMM Indor(MP)</li> </ul>
Technological competence	<ul style="list-style-type: none"> <li>• Undergo Four CEP courses from IIT Bombay in domain areas of Thermal, Micro/Nano Machining, Design and development.</li> <li>• Undergo STTP on Metal casting and welding at IIT Mumbai.</li> <li>• Undergo a weak long program on Advances in mechanical design and manufacturing at Carnfield University UK</li> </ul>

<b>Assessment/Accreditation related activities</b>	<b>Description</b>
Self-Assessment Reports & related experience	<ul style="list-style-type: none"> <li>• Attended 03 days training for evaluators at Mumbai, arranged by Nodal agency</li> <li>• Attended 02 workshops for evaluator from western region at VJTI.</li> <li>• Attended a days evaluators workshop at IIT Bombay arranged by NBA.</li> <li>• Completed SARs for UG and PG (Production &amp; Ind Engg) VJTI Mumbai</li> </ul>
Evaluation/assessment team participation	12 visits for UG Mechanical and Production( Manufacturing)
Institutional experience related to assessment/accreditation process	<ul style="list-style-type: none"> <li>- Dean Admin of VJTI, for 5 years</li> <li>- Registrar For 2 Year</li> <li>-Coordinator for process of Ramakrishna Bajaj National Quality Award process of VJTI in Education sector,</li> <li>-Coordinator for Autonomy proposal in 2010-11 in VJTI,</li> <li>-Chairman of Scholarship and financial needy students for 10 Years</li> </ul>
Membership of/contribution to Commissions/ Committees etc. in the field of higher education policy formulations.	<ul style="list-style-type: none"> <li>• Member of AICTE and DTE committees for evaluation and approval of new &amp; existing Institutes.</li> <li>• Member of LIC committee of university of Mumbai.</li> </ul>
<b>No. of Accreditation visit made in the past</b>	12 visits

<b>Additional information relevant to accreditation programme</b>
<p><b>Reviewer for following Journals:</b></p> <ol style="list-style-type: none"> <li>1. Journal of Journal of Supply Chain Management</li> <li>2. IJIEE</li> <li>3. IJMER</li> </ol> <p><b>Memberships for professional bodies:</b></p> <ol style="list-style-type: none"> <li>1. Life member of ISTE</li> <li>2. IME</li> <li>3. Member of IET</li> <li>4. AMIE</li> <li>5. NDTs</li> </ol>

## **List of Publications** *(strictly for the last 5 years only with complete references)*

### **10.1 Journal Publications (with Impact factor for each)**

1. Ramesh R. Lekurwale, **D. N. Raut**, and Milind M. Akarte, (2015) “Framework to Evaluate Manufacturing Capability Using Analytical Hierarchy Process” International Journal of Advanced Manufacturing Technology, Vol. 76, No. 1-4, pp. 565-575. (Published by Springer-Verlag London), Impact Factor 2013, 1.779, DOI: 10.1007/s00170-014-6284-7
2. Ramesh R. Lekurwale, and **D. N. Raut**, (2014) “A Case Base Approach for Evaluation of Manufacturing Effectiveness of a Firm Using Analytical Hierarchical Process”, International Journal of Supply Chain Management, Vol. 3, No. 2, pp, 63-69.
3. Ramesh R. Lekurwale, and **D. N. Raut**, (2014) “Manufacturing Capability Evaluation in a Job Shop Production System: A Case Base Approach” International Journal of Engineering Research & Technology, Vol. 3, No. 4, pp-576-584.
4. M. D. Nadar, **Dr. D. N. Raut**, Dr. B. E. Narkhede Six Sigma : A study in Agro Industry - Betel Leaf International Conference on Sunrise Technologies 13th to 15th January, 2011.
5. M. D. Nadar, **Dr. D. N. Raut**, Dr. B. E. Narkhede Review of Manufacturing Strategies in Industry A National Conference on Emerging Trends in Engineering and Technology (NCETET-2011) 11th March, 2011.
6. Bokade, S. U. and **Raut, D. N. (2014)**, “Cost Effectiveness and Service of Reverse Logistics for Parts and Subassemblies: An Empirical Investigation”, International Journal of Engineering Research and Technology Vol. 3 Issue 2 pp 1268-1270. (UIF: 1.76).
7. Bokade, S. U. and **Raut, D. N. (2014)**, “Flexibility and effectiveness in reverse logistics of product returns in the form of parts and sub-assemblies.”, International Journal of Development Research. Article in press for publication in Vol.4 (2) Feb 2014. (UIF: 1.250).
8. Bokade, S. U. and **Raut, D. N. (2013)**, “Cost effectiveness and Flexibility of Reverse Logistics for Consumables and Raw Material: An empirical investigation”, International Journal of Supply Chain Management. Vol. 2 No3, pp 41-46
9. Bokade, S. U. and **Raut, D. N. (2011)**, “Recapturing the Value through Reverse Logistics Practices: A Literature Review”, Prabandhan: Indian Journal of Management, Vol. 4, pp- 40 to 47. (UIF: 0.5230).

10. Bokade, S.U. and **Raut, D. N.** (2011), “Strategic Framework for Improved Reverse Logistics Practices: A Literature Review”, *International Journal of Advanced Engineering and Applications*, pp. 96-99.
11. V. J. Pillewan, **Dr. D. N. Raut**, Dr. K. N. Patil, (2015), “Microscopic Analysis of Carbon Nano tubes based Metal” *Nirma University Journal of Engineering and Technology (NUJET)*, (ISSN 2231- 2870), *NUJET Journal*, Vol. 4(2), pp 06-10)..
12. V. J. Pillewan, Dr. D. N. Raut, Dr. K. N. Patil, (2015), “Metal Matrix Composite by Powder Injection Molding Route” *Emerging Technology and Advanced Engineering (ISSN 2250,ISO 9001:2008)*, *IJETAE Journal*, Vol. 5(5), pp 514-520).
13. Onkar Sahasrabudhe, D. N. Raut, (2016) " Hybrid TIG-MAG arc welding: Fixture fabrication and the process optimization by response surface methodology” WITW-D-16-00185, *Welding in the World, international journal material joining*, International Institute of Welding (IIW), Springer, UK. Submitted on 15th July 2016. Accepted for review on 20th July 2016. (Paper under review).
14. Waghmare, S.N., Raut, D.N., Mahajan, S.K. and Bhamare, S.S. (xxxx) ‘Validating FMEA & TPM constructs for SMEs in India: A structural equation modelling approach’, *International Journal of Indian Culture and Business Management*, Inderscience Publishers, Vol. X, No. Y, pp.000–000.
15. Waghmare, S.N. Raut, D.N., Mahajan, S.K. and Bhamare, S.S. (2017) ‘Enhancing reliability and quality for SMEs in India by using failure mode effect analysis and total productive maintenance’, *International Journal of Indian Culture and Business Management*, Inderscience Publishers Vol. 14, No. 01, pp. 044–064.
16. Waghmare SN, Raut DN, Mahajan SK and Bhamare SS (2016) “Improving reliability for SMES in India by using faults classification.” *Indian Journal of Engineering*. ISSN 2319 – 7757 EISSN 2319 –7765, 2016, 13(33), 354-361.
17. Waghmare, S. N., Raut, D. N., Mahajan, S. K., & Bhamare, S. S. (2015), “INVESTIGATION OF FMEA AND TPM FOR IMPROVED RELIABILITY AND QUALITY OF SMES.” *International Journal of Development Research* Vol. 05, Issue, 08, pp. 5255-5263, August, 2015.
18. Waghmare, S. N., **Raut, D. N.**, Mahajan, S. K., & Bhamare, S. S. (2015), “The Strategic Framework for Integration of FMEA & TPM for Improved Reliability and Quality: A Literature Review.”, *Journal of the International Association of Advanced Technology and Science*. Vol. 16, MARCH 2015, No. 12, ISSN-5563-1682.

19. Waghmare, S. N., **Raut, D. N.**, Mahajan, S. K., & Bhamare, S. S. (2014). Failure Mode Effect Analysis and Total Productive Maintenance: A Review. *International Journal of Innovative Research in Advanced Engineering (IJIRAE)*, 1(6), 183-203.
20. **Dr. D. N. Raut**(Aug 2017), "Study of Simulation Behaviour of Tire and Effect of Working Conditions on Slipping Behaviour", *International Journal of Engineering Science and Computing(IJESC)*, Vol 7, Issue No:8
21. **Dr. D. N. Raut**(May 2014), "Minimization of Shrinkage Porosity in A Sand Casting Process By Simulation In AUTOCAS-T-X Software with Experimental Validation by Destructive Testing", *International Journal of Modern Engineering Research(IJMER)*, Vol 4, Issue No:5
22. **Dr. D. N. Raut**(April 2014), "Manufacturing Capability Evaluation in a Job Shop Production System: A Case Base Approach", *International Journal of Engineering Research & Technology(IJERT)*, Vol 3, Issue No:4
23. **Dr. D. N. Raut**(Sept 2012), "Framework for Role of Transportation in Estimated Resources Supplying In Construction Site", *International Journal of Engineering Inventions(IJEI)*, Vol 1, Issue No:3
24. **Dr. D. N. Raut**(Feb 2014), "Cost Effectiveness and Service of Reverse Logistics For Part and Subassemblies: An Empirical Investigation", *International Journal of Engineering Research & Technology(IJERT)*, Vol 3, Issue No:2
25. **Dr. D. N. Raut**(Jul 2014), "Failure Mode Effect Analysis and Total productive Maintenance: A Review", *International Journal of Innovative Research in Advance Engineering(IJIRAE)*, Vol 1, Issue No:6
26. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, Dr. D. K. Shinde, "Effect of parameter interconnection on hybrid TIG-MAG Arc welding process." *International Journal of Mechanical Engineering And Technology* 8(10), 2017, pp. 332-341.
27. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, "Analytical framework on parameter ranking for hybrid TIG MAG arc welding of mild steel." *Journal of Advance Research ELSEVIER Science Direct*.
28. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, "Effect of Heat Source Positioning on Hybrid TIG-MAG Arc Welding process." *MPC\_18 Materials Today: Proceedings* 00(2018) 0000-0000. , ELSEVIER ScienceDirect.

29. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, "EFFECT OF GAS SHIELD INTERCONNECTION ON HYBRID TIG\_MAG ARC WELDING BASIS PENETRATION DEPTH."978-1-5386-4304-4/18/\$31.00©2018 IEEE
30. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, "Incestigation on Hybrid TIG MAG Arc Welding Process for Mild Steel." Published in The International Journal of Advance Manufacturing Technology.
31. **Dr. D. N. Raut**, Pankaj Rathod "Study of Beam Angles for Different Positions of Collimator Jaw in Radiotherapy Treatment." International Journal of Advance Engineering and Research Development in Volume-05, Issue-06 of June 2018.

### **National Journals**

32. Ramesh R. Lekurwale, **D. N. Raut**, and B. E. Narkhede (2014) "World class manufacturingin make to order environment – A review of literature", Industrial Engineering Journal, Vol.VII, No. 5, pp-09-16.

### **Conference Presentations**

#### **International Conferences:**

1. Ramesh R. Lekurwale, Milind M. Akarte, and **D. N. Raut**, (2013) "Measurement of Manufacturing Effectiveness of a Company Using Analytical Hierarchical Process: A Case Study" Proceeding of The IEEE International Conference on Industrial Engineering andEngineering Management (IEEM), 10-13 Dec 2013, Bangkok, Thailand DOI:10.1109/IEEM.2013.6962680, pp. 1602 - 1606. (Published in IEEE Xplore digital library)
2. Ramesh R. Lekurwale, Milind M. Akarte, and **D. N. Raut**, (2013) "Decisions in HighVolume Low Variety Manufacturing System" , Proceedings of the International Conferenceon Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT), S.V.National Institute of Technology, Surat – 395 007, Gujarat, India. July 01-03, 2013,pp. 300-304.
3. Ramesh R. Lekurwale, **D. N. Raut**, and Milind M. Akarte, (2012) "Decisions inmanufacturing strategy for competitive advantages: A review" , International Conference onRecent Advances in Engineering, Technology, and Management,

Sardar Patel College of Engineering, Andheri, Mumbai, 31st May- 2nd June, 2012, pp. 260-267.

4. M. D. Nadar, **Dr. D. N. Raut**, Concurrent Engineering approach in Project Industries National Conference on Emerging Trends in Engineering and Technology (NCETET-2011) 11th March, 2011.
5. Bokade, S. U., **Raut, D. N.** and Narkhede, B. E., (2013), "Investigations on service and effectiveness of reverse logistics of consumables and materials", Proceedings of International Conference on Industrial Engineering, ICIE 2013, S.V. National Institute of Technology, Surat, Gujarat, India, pp- .94-98.
6. Sanjay Bokade, **D N Raut**, Investigations on Product Returns and Return Handling as a Reverse Logistics System for an Enterprise Supply Chain Management, Proc. of International Conference on Agile Manufacturing Systems-2012, Indian Institution Technology, Varanasi, U.P. 16-19 Dec. 2012 pp- 186-191
7. Sanjay Bokade, **D.N.Raut**, Investigating the factors affecting Reverse Logistics in the domain of Supply Chain Management, Proc. of the first international conference on Best Practices in Supply Chain Management, 22-23 November 2012, Institution of technical education and research Shiksha O Anusandhan University, Bhubneshwar ,Odhis. pp-328-331
8. Sanjay Bokade, **D.N.Raut**, The Strategic Framework for Improved Reverse Logistics Practices: Literature Review, Proc. of the 4th International Conference on Advances in Mechanical Engineering, September 23-25, 2010, S.V. National Institute of Technology, Surat, Gujarat, India, pp- 564-568.
9. Sanjay Bokade, **D.N.Raut**, Reverse Logistics: Models For Handling The Returns In Supply Chain. Proceedings of the 4th International congress of Environmental Research, December 15-17, 2012, S.V. National Institute of Technology, Surat, Gujarat, India, pp- 326.
10. Sanjay Bokade, Kartik Thakkar, **Dr.D.N.Raut**, Reverse Logistics: Recapturing the value through proper close looping of supply chain. An exploratory study. The Proceedings of National Conference on "Emerging Trends in Engineering & Technology (NCETET 2011)" 11 March 2011. Shree L.R. Tiwari College Of Engineering, Mira Road, Mumbai.
11. Sanjay Bokade, LalitaNayagam, **Dr.D.N.Raut**, The Role of Forecasting and Inventory Management in Reverse Logistics. The Proceedings of National Conference



- on "Emerging Trends in Engineering & Technology (NCETET 2011)" 11 March 2011. Shree L.R. Tiwari College Of Engineering, Mira Road, Mumbai.
12. V. J. Pillewan, **D. N. Raut**, K. N. Patil, D.K. Shinde, "Carbon to Carbon Nanotubes Synthesis Process: An Experimental and Numerical Study", 7th International Conference of Materials Processing and Characterization (ICMPC 2017), Materials Today: Proceedings XX (2017) XXX–XXX, ELSEVIER ScienceDirect. (Selected but yet to present) (17th -19th March 2017).
  13. V. J. Pillewan, **D. N. Raut**, K. N. Patil, D.K. Shinde, "TG-DTA analysis of Binary Metal Catalyst for Multi-Wall Carbon Nanotubes Synthesis", Track-3: Materials and Manufacturing, 1st International and 18th ISME Conference on Mechanical Engineering: Enabling Sustainable Development (ISME-2017). (Selected but yet to present) (23rd -25th February 2017).
  14. V. J. Pillewan, **D. N. Raut**, K. N. Patil, D.K. Shinde, "Carbon Nanotubes Based Porous Framework for Filtration Applications Using Industrial Grinding Waste", Advanced Composite Materials and Nanomechanical Testing, World Academy of Science, Engineering and Technology (WASET), 19th International conference proceedings ICACMNT 2017, Bangkok, Thailand. (Selected but yet to present) (07rd -08th February 2017).
  15. S.N. Waghmare, **D.N. Raut**, S.K. Mahajan, S.S. Bhamare, "Improving Reliability for SMES in India by using Faults Classification" Proceedings of International Conference on Trends in Industrial and Mechanical Engineering (ICTIME 2016), February 4-6, 2016 at MANIT, Bhopal, ISBN:978-93-84935-68-9, pp.49-56.
  16. S.N. Waghmare, **D.N. Raut**, S.K. Mahajan, S.S. Bhamare, "Exploring linkages between TPM pillars to improve quality of SMEs in India" Proceedings of International Conference on Industrial Engineering (ICIE2015) on November 26-28, 2015 at SVNIT, Surat, ISBN:978-93-84935-56-6, pp.338-343.
  17. **Dr.D.N.Raut**(Dec 2016), International Conference on Recent Trends in Mechanical Engineering for Sustainable Growth
  18. **Dr.D.N.Raut**, K. N. Valase "SMEET approach for the implementation of sustainable Manufacturing" International Conference on Production and Industrial Engineering, 19-21 December,2016 at NIT Jalandhar, Proceedings of CPIE-2016 ISSN – 978-93-5267-403-9
  19. **Dr.D.N.Raut**, K. N. Valase "Reflective and formative constructs in the implementation of Sustainable Manufacturing with 'SMEET' framework." IEEE

International Conference on Industrial Engineering and Engineering Management (IEEE-2017) 10-13Dec. 2017 at Singapore. IEEE Xplore Digital Library doi: 10.1109/IEEEEM.2017.820156

20. **Dr.D.N.Raut**, K. N. Valase “Sustainable Manufacturing Implementation with a SMEET framework.” International Conferenced on Materials, Applied Physics and Engineering (ICMAE) 3-4 June 2018 at Indore. Paper accepted for presentation in upcoming conference in June 2018 and for Publication in International Journal of Engineering and Technology (UAE)
21. **Dr.D.N.Raut**, K. N. Valase “Structural Equation Modeling application to assess environmental aspects in Implementing Sustainable Manufacturing.” International conference on Production and Industrial Engineering 26-29 June at Bangkok, Thailand. Paper accepted for presentation in upcoming Conference in June 2018.

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