BIO-DATA

CONTACT INFORMATION

Professor	Professor/Dr.					
Surname		First name		Middle name		
RAUT		DADAF	DADARAO			
Date of	DDOFFSSOD					
Mailing Address	Department of Prod, VJTI, Ne		District	Mobile: 9869699999/9167	7218585	
	Gardens', M		MUMBAI	Off. Telephone: 022		
	Mumbai- 4000	19	State	Res Telephone: -02		
			MAHARASHTRA	Fax: -		
Home	17/403, Glenn	nark Highland	District	E-mail:		
Address	Residency Dh	okali, Thane	Thane	dnraut@pe.vjti.ac.	<u>in</u>	
	(W) Pin: 40060)7	State	dnraut@vjti.org.in	<u>l</u>	
			MAHARASHTRA	dnrautvjti@gmail.	<u>com</u>	
DDECEME	DOCUTION	Duafaaa				
	POSITION & Present Pay	Professo	or 200-293000) & 3,8	9 196 / ₋		
IOB DESCI	•	14(1442	200-293000 J & 3,00	0,100/-		
_	as A Professor f	or the Dept. Me	ch./Prods			
Education	al credentials					
1 B M Ph	Degree E -from VJTI- Tech n D B A		Discipline Prod (s/w) Mech (CAD/CAM) Mechanical HR			
5 LI	LΒ					
TOTAL YEA	ARS OF PROFES		ENCE (in Nos.)			
Teaching R&D &c Teaching		Industry	Consultancy	Any other	Total	
27 Yrs	22Yrs (PhD Guidance in VJTI)	05Yrs	Consultancies with Customs, RTO, Godrej, Water Park, Govt of Maharashtra Social welfare	16	30 years	

Research Area: Manufacturing & Industrial Engineering							
Research Guid	danco	PG		Doctoral			
Research Guit	lance	35		18 Completed, 08 Ongoing		ıg	
Publications (Please pro	vide details o	f the pa	ipers etc. in a se	parate shee	et) Late 5 years	S
No. of				Journals [in]	Nos.]		
publicatio	National	International	IJ Boo	k Chapters		Conference	
n in Web of							
Science							
Journal last	2	70	7			26	6
five		70		,			
Year							

Areas of general expertise (Please identify five areas you have significant experience and/or expertise. For each identified area, please briefly describe your background – if need be, enclose additional sheet. Some indicative areas are given below)			
General education curriculum	 Dean Admin of Autonomous VJTI & Registrar for Two tenuver. Member of BoS of GSIT Indore (MP) and KIT, Kolhapur form last 08-year years with focus of formulation of rules and curriculum. RRC Member SP Pune University RRC Member SRTMU University Nanded 		
Critical analysis and reasoning	 Member of experts panel for board of Apprentice Member of expert panel for Ratan Tata Foundation scholarship form last 3 years. 		
Oral communication	 Undergo personality and business communication skill course in IIT. Executed the communication modules for economically needy students at VJTI. One-week Managerial Capacity Training at IMM Indore (MP) One-week Managerial Capacity Training at IMM Bodhi Gaya (Bihar) 		
Technological competence	 Undergo Four CEP courses from IIT Bombay in domain areas of Thermal, Micro/Nano Machining, Design and development. Undergo STTP on Metal casting and welding at IIT Mumbai. Undergo a weak long program on Advances in mechanical design and manufacturing at Cranfield University UK 		

Assessment/Accreditation related Activities	Description
Self-Assessment Reports & related experience	 Attended 03 days training for evaluators at Mumbai, arranged by Nodal agency
	 Attended 02 workshops for evaluator from western region at VJTI.
	 Attended a day's evaluators workshop at IIT Bombay arranged by NBA.
	 Completed SARs for UG and PG (Production & Ind Engg.) VJTI Mumbai.
Evaluation/assessment team participation NBA/DTE/ University	 More than 50 App. visits for UG Mechanical and Production (Manufacturing)
Institutional experience related to the	 Dean Admin of VJTI, for 3 years
assessment/accreditation process	 Registrar of VJTI for 3 Year Coordinator for process of Ramakrishna Bajaj National Quality Award process of VJTI in Education sector.
	 Coordinator for Autonomy proposal in 2010-11 in VJTI,
	 Chairman of Scholarship and financial needy students for 10 Years
Membership of/contribution to Commissions/ Committees etc. in the field of higher education policy formulations.	
	 Member of LIC committee of university of Mumbai.
No. of Accreditation Visit Made in The Past	More than 22 approximately.

Additional Information Relevant to Accreditation Program

Reviewer for following Journals:

- 1. Journal of Supply Chain Management
- 2. IJIEE
- 3. IJMER

Memberships for Professional bodies:

- **1.** Life member of ISTE
- **2. T**IME
- 3. Member of IET
- **4.** AMIE
- **5.** NDTS
- 6. BSG Block Chief

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

<u>Journal Publications (with Impact factor for each)</u>

- 1. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, "Investigation on Hybrid TIG MAG Arc Welding Process for Mild Steel." Published in the International Journal of Advance Manufacturing Technology.
- Dr. D.N. Raut, S.S. Gajmal,(2022) "An investigation on wear behavior of ASTM B23 tin based babbitt alloy cast developed through microwave assisted casting" International Journal of Metal casting, January 2022, DOI:10.1007/s40962-021-00721-5 Springer Nature.
- 3. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, (2018) "Analytical framework on parameter ranking for hybrid TIG MAG arc welding of mild steel." Journal of Advance Research ELSEVIER Science Direct. Journal of Advanced Research, 03 Mar 2018, 12:27-37
- 4. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, (2018) "Effect of Gas Shield Interconnection On Hybrid Tig_Mag Arc Welding Basis Penetration Depth." 978-1-5386-4304-4/18/\$31.00©2018 IEEE.
- 5. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, (2018) "Effect of Heat Source Positioning on Hybrid TIG-MAG Arc Welding process." MPC_18 Materials Today: Proceedings (2018), ELSEVIER Science Direct.
- 6. Rajesh O. Bhagwat, **D. N. Raut**,(2018) "Impact assessment of supply chain constraints over performance of public distribution system"; International Journal of Indian Culture and Business Management 16(1):19 DOI:10.1504/IJICBM.2018.088594, January 2018.
- 7. **Dr. D. N. Raut**, Pankaj Rathod (2018) "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.
- 8. 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.
- 9. **Dr. D. N. Raut**, Onkar. S. Sahasrabudhe, Dr. D. K. Shinde (2017), "Effect of parameter interconnection on hybrid TIG-MAG Arc welding process." International Journal of Mechanical Engineering and Technology 8(10), 2017, pp. 332-341.
- 10. Akshy Joshi, **D. N. Raut**, D K Shinde (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.

- 11. Waghmare, S.N., Raut, D.N., Mahajan, S.K. and Bhamare, S.S. (2017) "Validating FMEA & TPM constructs for SMEs in India: A structural equation modelling approach International Journal of Indian Culture and Business Management, 2017 Vol.14 No.4, pp.406 433.
- 12. Waghmare S N, **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.
- 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. D. I. Thombare, D. N. Raut (July 2016) "Process Improvement in Manufacturing of Grease and Lube Oils" ', International Research Journal of Engineering and Technology (IRJET) Volume 3, Issue 5 May 2016. Page No.836-840
- 15. Prashant Ghodake, **D. N. Raut,** Vinay Patil (May 2016) "FEA based Frequency Optimization of Vertical Storage Column", International Research Journal of Engineering and Technology (IRJET) Volume 3, Issue 7 July2016. Page No.836-840
- 16. 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)..
- 17. 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).
- 18. 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
- 19. 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.
- 20. 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.

- 21. 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.
- 22. Ramesh R. Lekurwale, and **D. N. Raut,** (2014) "Manufacturing Capability Evaluation in aJob Shop Production System: A Case Base Approach" International Journal of Engineering Research & Technology, Vol. 3, No. 4, pp-576-584.
- 23. M. D. Nadar, **Dr. D. N. Raut**, Dr. B. E. Narkhede Six Sigma (2011): A study in Agro Industry
 Betel Leaf International Conference on Sunrise Technologies 13th to 15th January,
 2011.
- 24. 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).
- 25. 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).
- 26. 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.
- 27. **Dr. D. N. Raut** (May 2014), "Minimization of Shrinkage Porosity in A Sand-Casting Process by Simulation In AUTOCAST-X Software with Experimental Validation by Destructive Testing", International Journal of Modern Engineering Research (IJMER), Vol 4, Issue No:5
- 28. **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
- 29. **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
- 30. **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
- 31.. 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
- 32. **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
- 33. 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).
- 34. 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.
- 35. Rajesh O. Bhagwat, **Dadarao N. Raut**, "Impact assessment of supply chain constraints over performance of public distribution system"; Int. J. of Indian Culture and Business Management
- 36. Ashutosh Phegade, **Dr. D. N. Raut** (2022) "Project Process Development for Tender Projects using Visual Project Management in Retail Fuelling, **Industrial Segment Organization**", International Journal of Advances in Engineering Volume 4, Issue 10 Oct. 2022, pp: 348-355 www.ijaem.net ng and Management (IJAEM) ISSN: 23955252, DOI: 10.35629/5252-0410348355
- 37. Patil, D., Naik, P. A., Shinde, D. K., & **Raut, D. N**. (2021). Framework for Implementing Quality Management System for Heavy Construction Equipment Manufacturing Industry. *Framework*, *10*(05).
- 38. Thakur, P., **Raut, D. N.**, & Siddiqui, F. (2022). Modeling and Simulation in Waterjet Technology. In *Recent Innovations in Mechanical Engineering: Select Proceedings of ICRITDME 2020* (pp. 157-171). Singapore: Springer Singapore. DOI: 10.1007/978-981-16-9236-9 15
- 39. Naik, P. A., Patil, S., & **Raut, D. N**. (2021). Assessment of CNC Machine Tools Using MCDM Techniques. *J. Xi'an Univ. Archit. Technol*, 572-583.
- 40. Gharat, P. V., Shinde, D. K., & **Raut, D. N**. (2019). Design and development of fissure detection and imaging techniques for brown rice kernels to improve quality of rice miller.
- 41. Ingle, S. V., & **Raut, D. N**. (2020). Challenges in machining of titanium alloys with proper tooling & machining parameters—a review. *Int. J. Innov. Eng. Technol*, *16*, 25-43.
- 42. Thakur, P., **Raut, D. N**., & Siddiqui, F. (2022). Recent Applications, Developments and Challenges in Waterjet Technology. In *Recent Innovations in Mechanical Engineering: Select Proceedings of ICRITDME 2020* (pp. 141-155). Singapore: Springer Singapore.

- 43. **Raut, D. N.**, Bhute, D. N., & Patil, P. V. (1981). Effect of barium titanate on the unit cell parameter of Nd 0· 5 Li 0· 5 TiO 3. *Bulletin of Materials Science*, *3*, 15-17.
- 44. Alone, S. D., Naik, P., Athawale, V. M., & **Raut, D. N**. (2022). Performance Improvement in Construction Industry by Using TOPSIS Method for Brick Material Supplier Selection. In *Recent Advances in Manufacturing Modelling and Optimization: Select Proceedings of RAM 2021* (pp. 341-351). Singapore: Springer Nature Singapore.
- 45. Chandak, M., Shinde, P. A. N. D. K., & **Raut, D. N.** (2020). Process Parameter Optimization for Laser 2D Barcode Engraving using Taguchi Design of Experiment Technique. *Delta*, *3*, 1-89.
- 46. Dhawale, M. R., & **Raut, D. N**. (2013). Evaluating measurement capabilities by gauge R&R using ANOVA for reliability. *system*, *3*(3), 1143-1148.
- 47. Gharat, P. V., Shinde, D. K., & **Raut, D. N**. (2019). Finite Element Analysis and Three-Point Bend Testing of Indian Rice Grains with Fissure Effects. In *Advances in Computational Methods in Manufacturing: Select Papers from ICCMM 2019* (pp. 1059-1072). Springer Singapore.
- 48. Tayade, B., **Raut**, **D**., & Sharawage, A. (2012). Role and importance of procurement process in an implementation of Supply Chain (Iponenciaen International Conference on Technology and).
- 49. Gajbhiye, A. K., Choudhari, C. M., **Raut, D. N.**, Narkhede, B. E., & Bhandarkar, B. M. (2014). Minimization of shrinkage porosity in a sand-casting process by simulation in AUTOCAST-X Software with experimental validation by destructive testing. *International journal of modern engineering research (IJMER)*, 4(5).
- 50. Ghorpade, K., Naik, P. A., Shinde, D. K., & **Raut, D. N**. (2021). Experimental Investigation of Grit Blasting Parameters on Alpha Case Removal of Forged Alloy Part Ti-6Al-4V used in Aviation Industry. *International Journal of Engineering Research & Technology*, 10(5).
- 51. Chandak, A. G., **Raut, D. N.,** & Yadav, G. (2022). Performance assessment of internet of things implementation in fleet management project—schedule of rate: an oil marketing company case study. In *Recent Advances in Manufacturing Modelling and Optimization: Select Proceedings of RAM 2021* (pp. 763-773). Singapore: Springer Nature Singapore.
- 52. Thakur, P. M., & **Raut, D. N**. (2023). Process monitoring in submerged abrasive waterjet cutting of Ti6Al4V by vibration signal. *Advances in Materials and Processing Technologies*, 9(3), 1061-1090.
- 53. Goyal, A., Yadav, G., **Raut, D. N.**, & Pendam, D. (2019). Integration of Value Stream Mapping with Smart Manufacturing. *61st 5th*, 427.

- 54. Parekh, S., & **Raut, D. N**. Warehouse Selection in Supply Chain Network Design Based on Multi COG Clustering and MCDM.
- 55. Thakur, P. M., & **Raut, D. N**. (2023). Experimental investigation on surface topography in submerged abrasive waterjet cutting of Ti6Al4V. *Advances in Industrial and Manufacturing Engineering*, 6, 100113.
- 56. Ingle, S., & **Raut**, **D**. (2023). Evaluation of tool wears mechanism considering machining parameters and performance parameters for titanium alloy in turning operation on CNC. *Advances in Materials and Processing Technologies*, 1-21.
- 57. Ingle, S. V., & **Raut, D. N**. (2023). Performance evaluation of process parameters using MCDM methods for Titanium Alloy (Ti6al4v) in turning operation. *Australian Journal of Mechanical Engineering*, 1-15.
- 58. Solanke, S., Shinde, S., **Raut**, **D**., Oza, A. D., Prakash, C., Saxena, K. K., & Kumar, S. (2023). Effect of multi-walled carbon nanotubes in reinforced hydroxyapatite composite coatings for orthopedic applications. *Surface Review and Letters*, 2340009.
- 59. Ingle, S. V., & **Raut, D. N**. (2023, March). Monitoring Tool Wear with Sensors and Arduino in CNC Metal Cutting Turning Operation of Titanium Alloys (Ti6Al4V). In *International Conference on Production and Industrial Engineering* (pp. 101-109). Singapore: Springer Nature Singapore.
- 60. Thakur, P. M., **Raut, D. N.**, Lade, P. R., & Kudalkar, S. (2023). Development of operations in waterjet technology: A review. *Advances in Materials and Processing Technologies*, 1-50.
- 61. Mhatre, M. S., & **Raut, D. N.** (2024). Enhancing Turning Processes of Inconel X750 with a Multiobjective Optimization-Driven TOPSIS Approach Using Cryotreated PVD-Coated Tools. *Journal of The Institution of Engineers (India): Series D*, 1-13.
- 62. Thakur, P. M., & Raut, D. N. (2023). Sensor-based process control of abrasive waterjet machining: a review. *International Journal of Machining and Machinability of Materials*, 25(3-4), 266-292.
- 63. Mhatre, M. S., & **Raut, D. N**. (2024). Experimental Investigations and Multi objective Optimization in Machining of INCONEL X750 Superalloy Using Cryogenically Treated PVD-Coated Tool. *Journal of The Institution of Engineers (India): Series D*, 1-15.
- 64. Ingle, S. V., **Raut, D. N**., & Patil, A. S. (2024). Optimization and Modeling of the Sustainable Manufacturing Process in CNC Turning of Titanium alloy (Ti6Al4V).
- 65. Thakur, P., Maurya, P., **Raut, D. N.**, & Dongre, M. (2024). Experimental investigation and multi objective optimization in abrasive waterjet machining by coupled fuzzy-AHP and

- fuzzy-TOPSIS. International Journal of Computational Materials Science and Surface Engineering, 12(1), 36-61.
- 66. Thakur P., Dongre M, **Raut D.N**, Naik A P (2024), Quality optimization by metaphor less algorithms: A case study of abrasive waterjet industry, Int. J. of Machining and Machinability of Materials (Accepted in SCOPUS)
- 67. Matey S.V., **Raut D.N**., Raut R.D. et al (2024), Blockchain Technology adoption in manufacturing industries-A bibliometric review using VOS viewer, J. Inst. Eng. India Ser C 105,1269-1291, https://doi.org/10.1007/s40032-024-01082-8
- 68. Matey S.V., **Raut D.N**, Pansare R.B., and Kant R, (2025) A hybrid framework to prioritize the performance matrices for blockchain technology adaption in manufacturing industries, Journal of Modelling in Management, Vol 20 No. 3, pp 701-731, https://doi.org/10.1108/JM2-02-2024-0058.
- 69. Patil M, Dongre M, **Raut D.N**., Naik A (2025), Multi objective optimization of fused filament fabrication (FFF) parameters for rice husk reinforced PLA composites, volume 8, 10.1016/j.nxmate.2025.100540

National Journals:

- 1. Ramesh R. Lekurwale, **D. N. Raut**, and B. E. Narkhede (2014) "World class manufacturing in make to order environment A review of literature", Industrial Engineering Journal, Vol.VII, No. 5, pp-09-16.
- 2 M. D. Nadar, **Dr. D. N. Raut,** Dr. B. E. Narkhede (2011) Review of Manufacturing Strategies in Industry A National Conference on Emerging Trends in Engineering and Technology (NCETET-2011) 11th March, 2011.

Book Chapters:

- Sameer S. Gajmal, D.N. Raut "In-situ Microwave-Assisted Casting of ASTM B23 Tin-Based Babbitt Alloy" , Published in: Advances in Mechanical Engineering Publisher: Springer Nature Singapore.2020
- Keshav Valse, D N Raut "Structural Equation Modelling Application to Assess Environmental Aspects in Implementing Sustainable Manufacturing" Operations Management and System Engineering, Lecture Notes on Multidisciplinary Industrial Engineering, Springer Nature Singapore 2019
- 3. R H Shinde, D N Raut elt "Powder Mixed Micro-Electric Discharge Machining—A Review",), Innovations in Mechanical Engineering, Lecture Notes in Mechanical

- Engineering, https://doi.org/10.1007/978-981-16-7282-8_20, The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2022
- 4. Paramjit Thakur, D. N. Raut, and Fauzia Siddiqui "Recent Applications, Developments and Challenges in Waterjet Technology", Recent Innovations in Mechanical Engineering, Lecture Notes in Mechanical Engineering, https://doi.org/10.1007/978-981-16-9236-9_1, Springer Nature Singapore Pte Ltd. 2022
- 5. Paramjit Thakur, D. N. Raut, and Fauzia Siddiqui "Modeling and Simulation in Waterjet Technology" Recent Innovations in Mechanical Engineering, Lecture Notes in Mechanical Engineering, https://doi.org/10.1007/978-981-16-9236-9_1, Springer Nature Singapore Pte Ltd. 2022.
- 6. Sanket D. Alone, Pramod Naik, V. M. Athawale, D. N. Raut "Performance Improvement in Construction Industry by Using TOPSIS Method for Brick Material Supplier Selection", Recent Advances in Manufacturing (RAM 2021) Mechanical Lecture notes Publisher Springer Singapore, 22 April 2022
- 7. Anudeep G. Chandak, D. N. Raut, Gunjan Yadav "Performance Assessment of Internet of Things Implementation in Fleet Management Project—Schedule of Rate: An Oil Marketing Company Case Study" Recent Advances in Manufacturing (RAM 2021) Mechanical Lecture notes Publisher Springer Singapore, 22 April 2022

International conferences:

- 1. Dr. D.N. Raut, S.S. Gajmal, "In-situ Microwave-Assisted Casting of ASTM B23 Tin-Based Babbitt Alloy", ICAME 2020, 30 June 2020, NVIT Nagpur.
- 2. **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)
- 3. **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.
- 4. V.J. Pillewan, **D.N. Raut**, K.N. Patil, D.K. Shinde, Carbon to Carbon Nanotubes Synthesis Process: An Experimental and Numerical Study, Materials Today: Proceedings, Volume 5, Issue 2, Part 1,2018, Pages 6444-6452, https://doi.org/10.1016/j.matpr.2017.12.257.

- 5. 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).
- 6. **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/IEEEM.2017.820156
- 7. 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).
- 8. **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.
- 9. 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.
- 10. **Dr. D.N. Raut** (Dec 2016), International Conference on Recent Trends in Mechanical Engineering for Sustainable Growth
- 11. 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.
- 12. 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.

- 13. 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 and Engineering Management (IEEM), 10-13 Dec 2013, Bangkok, Thailand DOI:10.1109/IEEM.2013.6962680, pp. 1602 1606. (Published in IEEE Xplore digital library).
- 14. Ramesh R. Lekurwale, Milind M. Akarte, and **D. N. Raut**, (2013) "Decisions in High Volume 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.
- 15. Ramesh R. Lekurwale, **D. N. Raut,** and Milind M. Akarte, (2012) "Decisions in manufacturing strategy for competitive advantages: A review", International Conference on Recent Advances in Engineering, Technology, and Management, Sardar Patel College of Engineering, Andheri, Mumbai, 31st May- 2nd June, 2012, pp. 260-267.
- 16. 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.
- 17. Sanjay Bokade, **D.N.Raut**, "Investigating the factors affecting Reverse Logistics in the domain of Supply Chain Management", proceeding. 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 ,Odhisa. pp-328-331.
- 18. 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.
- 19. 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.
- 20. 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.
- 21. Sanjay Bokade, Lalita Nayagam, **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.
- 22. 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.
- 23. Paramjit Thakur, **D. N. Raut**. "Recent applications, development and challenge abrasive waterjet technology"; (Accepted for lecture notes springer)
- 24. Paramjit Thakur, **D. N. Raut,** "Modeling and simulation in abrasive waterjet technology"; (Accepted for lecture notes springer)
- 25. Chanmanwar, R. M., Mohale, V., Shinde, D. K., & Raut, D. N. (2024, November). Design and Development of Smart Industrial Chemical Etching Setup for PCB Manufacturing. In 2024 IEEE Conference on Engineering Informatics (ICEI) (pp. 1-6). IEEE.
- 26. Rahul Chanmanwar,, Vijay Mohale, Dattaji Shinde, **D. N. Raut,** Critical Analysis of Chemical Machining Setup Design using FMECA, Journal of Sustainable Development Innovations, Vol. 03, Iss. 1 (2026) 25-33, DOI: 10.61552/JSI.2026.01.003.

Doctoral Thesis Supervised/ Guided:

Sr.	Student Name	Registration	Pass out
No		No	Year
1	Sanjay Bokade	109040102	2013
2	M. D. Nadar	109040004	2013
3	Ramesh R. Lekurwade	119040102	2015
4	Sanjay N. Waghmare	12904001	2017
5	Keshv N. Valase	139040004	2018
6	Vilas J. Pillewan	149040003	2018
7	Sameer S. Gajmal	179040001	2022
8	Pramod A. Naik	189040001	2020
9	Onkar Sahasrabudhe	149040001	2018

10	Rajesh O. Bhagwat	109040001	2010
11	Rajendra H. Shinde	169040002	2021-22
12	Atul Meshram	139040002	2025
13	Mittali Mhatre	189041002	2024
14	Permjit Singh Thakur	1999040004	2023-2024
15	Sushil Ingale	189040003	2022-23
16	Shweta Matey	199041001	2025
17	Amol Chavan	18904004	2025
18	Anuprita Bhosale	219041001	2025

Professional courses Completed:

Sr.	Certification	Course	Resource Person/Institute	Online Platform
No.	Date		Resource reason/institute	
1	26-07-2024 to 03-08- 2024	UHV-II	Dr Subhash University Junagadh, Gujarat	AICTE
2	24-07-2023 to 28-07- 2023	Effective Curriculum Implementation	National Technical Teachers Training & Research Chandigarh (NITTTR)	Ministry of Education, Govt. Of India
3	26-12-2022 to 30-12- 2022	UHV-I	AICTE, New Delhi	AICTE, online
4	22-07-2020	Intelligent Machining	Rahul Rai Associate Professor, Mechanical and Aerospace Engineering The State University of New York	Coursera
5	23-03-2021	Building your leadership skills	Dr. Valerie Gauthier Associate Professor HEC Paris	Coursera

6	08-12-2020	Leadership and Emotional Intelligence	Ramnarayan Subraniam Clinical Professor Organisation Behaviour Business Technology Management ISB	Coursera
7	16-09-2020	Write professional emails in English	Gerry Landers Lecturer GT Language Institute	Coursera
8	02-10-2020	Supply chain Management: A learning Perspective	Professor Bowon Kim, DBA School of Management Engineering Korea Advanced Institute of science and Technology	Coursera
9	28-07-2020	Digital Thread: Implementation	Ken English Deputy Director Sustainable manufacturing and advance robotic technologies community of excellence at the University of Buffalo	Coursera
10	19-07-2020	Digital Manufacturing and Design	Ken English Deputy Director Sustainable manufacturing and advance robotic technologies community of excellence at the University of Buffalo	Coursera
11	07-02-2020	Advanced Manufacturing process analysis	Rahul Rai Associate Professor, Mechanical and Aerospace Engineering The State University of New York	Coursera
12	03-09-2020	Understanding research methods	Dr. J. Simon Rofe, SOAS, University of London Dr. Yenn Lee, SOAS, University of London	Coursera

		Being a researcher	Carlo Ghezzi		
4.0	20.06.2020	(in information	Emeritus Professor		
13	28-06-2020	science and	DEIB-Department of Electronics,	Coursera	
		technology)	Informazione e Biongeneria		
			Sara Behdad		
		Advanced	Assistant Professor		
14	25-06-2020		Mechanical and Aerospace	Courses	
14	25-00-2020	Manufacturing	Engineering	Coursera	
		enterprise	Industrial and system Engineering		
			The state university of New York		
			Timothy M Brown		
		Supply chain Principles	Managing Director		
15	15-06-2020		Supply chain and Logistics Institute	Coursera	
			offered by		
			Georgia Institute of Technology		
16	10 th to 14 th February, 2020	Professional Development Training Program	Indian Institute of Management Bodh Gaya, Bihar	IIM Gaya	
17	10 th December, 2019	Revised Accreditation Frame work of NAAC	VJTI, Mumbai	NAAC Bord Bengaluru	
18	5 th March to 10 th March 2018	Nanotechnology Opportunities and Challenges in Engineering Materials and Manufacturing	VJTI Mumbai	QIP	

Development activity in IPR:

Se	Name	IPR Title & Patentee No.	IPR Application
No			
1	D N Raut & Others	"A Microwave-Assisted Casting of Metal and Metal	202221039458
		Alloy" & 564947	
2	D N Raut & Others	Fabrication Of Polyacrylonitrile/Titanium Oxide-	202221040095
		Based Nanofibers Battery with Enhanced Electrical	
		Properties & 543079	
3	D N Raut & Others	Development Of Hybrid Polymeric Nanocomposite	202221038985
		Using Glass, Carbon and Basalt Fibers as Reinforcing	
		Elements.	
4	D N Raut & Others	Development Of Nano-engineered Abs-Mwcnts	202221040861
		Composite Using Fused Deposition Modeling (Fdm)	
		3d Printing Infill	
		Patterns.	
5	D N Raut & Others	Electric Thermic Fluid Heating Device and System	201911020141 A

Prof. D N Raut

Professor in Production Engineering Dept.

VJTI, Matunga Mumbai -400 019