Name: Dr. Vaibhav S. Narwane				E-mail: vsnar	wane@som	aiya.edu
Contact No: +91-976 976 1576						
Department/Section: Mechanical						
College: K J Son	maiya	College of Engineering				
DOJ Som	aiya:	Career Experience:20 Yrs	Industry Exp	erience: 01 Yr	Teaching	Experience:
01August, 2009					19Yrs	
Present Academic Designation: Associate		Present Adm	inistrative Desig	gnation:		
Professor				_		

Area of research/specialization and Courses Delivered

Research domain/interests/areas

Smart Manufacturing; Artificial Intelligence; Machine Learning; Sustainable practices; Big Data Analytics; Sustainable Supply Chain management; Agricultural Supply Chain; Cloud Computing; IoT Application; Industry-4.0; Circular Economy; Quantum computing; Interdisciplinary Research; Decision Support System

Courses Delivered

UG- Smart Manufacturing, Fundamentals of Robotics, Artificial and Machine Intelligence, Data Base & Information Retrieval System, Mechatronics, Data Structures, CAD/CAM/CIM

PG- Smart Manufacturing, Robotics and Artificial Intelligence, Control Engineering, Objected Oriented Programming, Computer Aided Machining, Modelling and Simulation

Rec	ogni	ition as a	teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
_						

Details of Recognitions

- 1. Approved lecturer of Mumbai University
- 2. Approved PG Teacher of Mumbai University
- 3. Approved PhD Guide by Somaiya Vidyavihar University

		Education			
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Technology	Mumbai University	Veermata Jijabai Technological Institute (VJTI), Maharashtra	2020	NA
PG	M.E.	Swami Ramanand	Shri Guru Govind	2002	79.00
	(Mechanical-	Teerth Marathawada	Singhji College of		First
	CAD/CAM)	University	Engineering and		Class
			Technology (SGGS),		with
			Nanded		Distincti
					on
UG	Mechanical	Dr. Babasaheb	Jawaharlal Nehru	2000	78.71
		Ambedkar	Engineering College,		First
		Marathawada	Aurangabad		Class
		University,			with
					Distincti
					on

	Notable Experience Details						
Sr. No	Name of the	Designation	Date of Joining	Date of Leaving	Experience		
	organization				(Years)		
1.	Nikhil Comforts,	HVAC Design	August 2008	July 2009	01		
	Mumbai	Manager					
2.	K.J. Somaiya College	Lecturer	July 2004	Aug 2008	04		
	of Engg, Mumbai						
3.	S.S Jondhale College	Lecturer	Feb 2003	June 2004	1.3		
	of Engg, Thane						
4.	Aditya College of	Lecturer	July 2002	Feb 2003	0.66		
	Engineering, Beed						

Research Accomplishments and Projects				
No of students pursuing Ph.D as on date: 02		No of students completed Ph.D as on date:		
_		00		
No of students completed PG thesis / Project work as on		No of students / groups completed UG		
date: 22		projects as on date: more than 50		
Publications	Number of Peer review Journal	Number of Conference papers:22		
Total: 92	papers: 70 (54 Scopus Indexed)			

Details of Publications:

International Journals

- 1. Nagrani, S., & Narwane, V. S. (2024). Digital Twins for Predictive Maintenance Past, Present, and Future. International Journal of Industrial and Systems Engineering (ahead-of-print). (Scopus Indexed; Impact Factor: 1.5; h-index 32; Publisher: Inderscience Enterprise Ltd.)
- 2. Inamdar, Z.Z., **Narwane, V.S.**, & Gardas, B. B. (2024), "A systematic literature review with bibliometric analysis of big data analytics adoption from period 2014 to 2018",
- 3. Palsodkar, M. A., Nagare, M. R., & Narwane, V. S. (2024). Exploratory Analysis of Factors Influencing Agile New Product Development Adoption in Manufacturing Industries. International Journal of Innovation and Technology Management, 2450021. (Scopus Indexed; Impact Factor: 1.917; h-index 24; Publisher: World Scientific; https://doi.org/10.1142/S0219877024500214)
- 4. Thakker, S. V, Rane, S. B., & Narwane, V. S. (2024). IoT-based integrated architecture in green supply chain. *Modern Supply Chain Research and Applications*, (Directory of Open Access Journals (DOAJ) *Publisher: Emerald*; https://doi.org/10.1108/MSCRA-01-2023-000)
- 5. Palsodkar, M. A., Pansare, R. B., Nagare, M. R., Narwane, V. S. & Yadav, G. (2024). Repurposing product development after COVID-19 by integrating Industry 4.0 and Agile New Product Development practices in emerging economies Journal of Engineering, Design and Technology, (ahead-of-print). (Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier
- 6. Palsodkar, M. A., Nagare, M. R., Pansare, R. B., & Narwane, V. S. (2024). An adoption framework for Agile New Product Development using hybrid RBWM-ISM-Fuzzy MICMAC approach. *Journal of Modelling in Management*, (ahead-of-print). (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Score: 2.24; h-index 29; Publisher: Emerald; DOI: https://doi.org/10.1108/JM2-11-2023-0262)

2023

- 7. Narwane, V. S., Gunasekaran, A., Gardas, B. B., & Sirisomboonsuk P. (2023) "Quantum Machine Learning a New Frontier in Smart Manufacturing: A Systematic Literature Review from Period 1995 to 2021", *International Journal of Computer Integrated Manufacturing*,, 1-20 (Scopus Indexed; Impact Factor: 4.42; Publisher: Taylor and Francis, DOI: https://doi.org/10.1080/0951192X.2023.2294441)
- 8. Kavre, M. S., **Narwane, V. S.**, Gardas, B. B., and Sunnapwar, V. K. (2023) "Role of Human Factors in Cloud Manufacturing Adoption across Manufacturing Micro, Small, and Medium Enterprises" *International Journal of Computer Integrated Manufacturing* 36(4), 611-633 (Scopus Indexed; Impact Factor: 4.42; Publisher: Taylor and Francis DOI: https://doi.org/10.1080/0951192x.2022.2128215)
- 9. Tambuskar, D. P., Jain, P., and **Narwane, V. S.** (2023). An exploration into the factors influencing the implementation of big data analytics in sustainable supply chain management. *Kybernetes* (*Scopus Indexed*; *Impact Factor: 1.765*; *h-index 40*; *Publisher: Elsevier; DOI: https://doi.org/10.1108/k-07-2022-1057*)
- 10. Jain, P., Tambuskar, D. P., and **Narwane, V. S.** (2023). Is the Implementation of Big Data Analytics in Sustainable Supply Chain Really a Challenge? The Context of the Indian Manufacturing Sector. *International Journal of Innovation and Technology Management*, 2350033. (Scopus Indexed; Impact Factor: 1.917; h-index 24; Publisher: World Scientific; DOI: https://doi.org/10.1142/S0219877023500335)
- 11. Pansare, R. B., Nagare, M. R., and Narwane, V. S. (2023). Exploring the significant factors of reconfigurable manufacturing system adoption in manufacturing industries. *Journal of Modelling in Management (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Score: 2.24; h-index 29; Publisher: Emerald; DOI: https://doi.org/10.1108/JM2-12-2022-0286)*
- 12. Ganjare, S. A., Satao, S. M., & Narwane, V. S. (2023) "Systematic Literature Review of Machine Learning for Manufacturing Supply Chain" *The TQM Journal (Scopus Indexed; Quartile Q1; Impact Score: 5.85; h-index 74; Publisher: Emerald; DOI: https://doi.org/10.1108/TQM-12-2022-0365)*
- 13. Gardas, B. B., Gunasekaran, A., and **Narwane V. S.** (2023) "Unlocking factors of digital twins for smart manufacturing: a case of emerging economy", *International Journal of Computer Integrated Manufacturing*, (Scopus Indexed; Impact Factor: 4.42; Publisher: Taylor and Francis DOI: https://doi.org/10.1080/0951192X.2023.2257655)
- 14. Palsodkar, M. A., Nagare, M. R., Pansare, R. B., & Narwane, V. S. (2023). A Framework for Adoption of Circular Economy Practices for Performance Improvement of Agile New Product Development. *Circular Economy and Sustainability*, 1-24. (*Scopus Indexed*; *Impact Factor*: 1.1; Publisher: Springer DOI: https://doi.org/10.1007/s43615-023-00326-6)

2022

- 15. Narwane, V. S., Raut, R. D., Gardas, B. B., Narkhede, B. E., & Awasthi, A. (2022), "Examining smart manufacturing challenges in the context of micro, small and medium enterprises", *International Journal of Computer Integrated Manufacturing*,1-18 (Scopus Indexed; Impact Factor: 4.42; Publisher: Taylor and Francis; DOI: https://doi.org/10.1080/0951192X.2022.2078508)
- 16. **Narwane, V.S.**, Gunasekaran, A., and Gardas, B. B. (2022), "Unlocking adoption challenges of IoT in Indian Agricultural and Food Supply Chain", *Smart Agricultural Technology*, 2, 100035, (Directory of Open Access Journals (DOAJ) DOI: https://doi.org/10.1016/j.atech.2022.100035)
- 17. Velani, A., **Narwane, V.S.**, and Gardas, B. B. (2022), "Contribution of Internet of Things in Water Supply Chain Management: A Bibliometric and Content Analysis", *Journal of*

- Modelling in Management (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Score: 2.24; h-index 29; Publisher: Emerald; DOI: https://doi.org/10.1108/JM2-04-2021-0090)
- 18. Dhage, S.S., **Narwane, V.S.**, Raut, R.D., Gardas, B.B., Dere N., & Narkhede, B.E. (2022) "Mathematical programming model to optimize an environmentally constructed supply chain: A genetic algorithm approach", International Journal of Operational Research 144(2), 226-253. (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.52; h-index 27; Publisher: Inderscience Enterprise Ltd, DOI: https://doi.org/10.1504/ijor.2021.10026395).
- 19. Jain, P., Tambuskar D. P., and **Narwane, V. S.** (2022) "Identification of Critical Factors for Big Data Analytics Implementation in Sustainable Supply Chain in Emerging Economies" Journal of Engineering, Design and Technology, (ahead-of-print). (*Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier; DOI: https://doi.org/10.1108/JEDT-12-2021-0739*
- 20. Kavre, M. S., Gardas, B. B., **Narwane, V. S.**, Navimipour, N. J., and Yalcin, S. (2022) "Evaluating the Effect of Human Factors on Big Data Analytics and Cloud of Things Adoption in the Manufacturing Micro, Small, and Medium Enterprises" *IT Professional (Scopus Indexed; Impact Factor:* 2.6; h-index 50; Publisher: IIIE Xplore) https://doi.org/10.1109/mitp.2022.3156956
- 21. Parthiban S., Gedam V., Narkhede, B.E, **Narwane, V.S.**, and Gotmare A. (2022) "Sustainable implementation drivers and barriers of lean agile manufacturing in original equipment manufacturers: A literature review study", International Journal of Business Excellence 26(1) (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26; Publisher: Inderscience Enterprise Ltd, DOI: https://doi.org/10.1504/IJBEX.2022.121587).

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- 22. Narwane, V. S., Yadav, V. S., Raut, R. D., Narkhede, B. E., & Gardas, B. B. (2021), "Sustainable development challenges of the biofuel industry in India based on integrated MCDM approach", Renewable Energy, 164, 298-309 (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 8.001; h-index 110; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.renene.2020.09.077
- 23. **Narwane, V.S.**, Raut, R.D., Yadav, V. S., Cheikhrouhou, N., Narkhede, B. E. & Priyadarshinee, P (2021) "The role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries" Journal of Enterprise Information Management. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor 5.839; h-index 61; Publisher: Emerald; DOI: https://doi.org/10.1016/j.renene.2020.09.077)
- 24. Narwane, V. S., Raut, R. D., Mangla, S. K., Dora, M., & Narkhede, B. E. (2021). "Risks to big data analytics and blockchain technology adoption in supply chains". *Annals of Operations Research*, 1-36. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 4.854; h-index 96; Publisher: Springer; DOI: https://doi.org/10.1007/s10479-021-04396-3).
- 25. Narwane, V.S., Gardas, B.B., Raut, R.D., Priyadarshinee P., and Narkhede, B.E. (2021) "The influence of Internal-External Factors on the Cloud Computing Adoption", International Journal of Business Information Systems, 38(3), 324-342 (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26; Publisher: Inderscience Enterprise Ltd; DOI: https://doi.org/10.1504/ijbis.2021.119415).
- 26. Raut, R., Narwane, V. S., Mangla, S. K., Yadav, V. S., Narkhede, B. E., & Luthra, S. (2021). "Unlocking causal relations of barriers to big data analytics in manufacturing firms", Industrial Management & Data Systems. (*Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 4.42 ;h-index 103;* https://doi.org/10.1108/IMDS-02-2020-0066)
- 27. Maroli, A., **Narwane, V. S.**, & Gardas, B. B. (2021). "Applications of IoT for achieving sustainability in agricultural sector: A comprehensive review", Journal of Environmental Management, 298, 113488. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 6.789; h-index 179; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.jenvman.2021.113488)

- 28. Thavi, R.R., **Narwane, V.S.**, Jhaveri, R.H. and Raut, R.D. (2021), "To determine the critical factors for the adoption of cloud computing in the educational sector in developing countries a fuzzy DEMATEL approach", Kybernetes, 10.1108/K-12-2020-0864. (*Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier; DOI: https://doi.org/10.1108/k-12-2020-0864)*
- 29. Thavi, R.R., Jhaveri, R.H., **Narwane, V.S.**, Gardas, B. B., and Navimipour, N. J. (2021), "Role of cloud computing technology in the education sector", Journal of Engineering, Design and Technology, (*Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier; DOI:* https://doi.org/10.1108/JEDT-08-2021-0417)
- 30. Maroli A. A., **Narwane, V. S.**, Raut, R. D., & Narkhede, B. E. (2020), "Framework for the implementation of an IoT based water distribution and management system", Clean Technologies and Environmental Policy, 23(1), 271-283 (*Scopus Indexed; Impact Factor:* 2.429;h-index 55; Publisher: Springer; DOI: https://doi.org/10.1007/s10098-020-01975-z)
- 31. Raut, R. D., Mangla, S. K., **Narwane, V. S.**, Dora, M., & Liu, M. (2021), "Big Data Analytics as a mediator in Lean, Agile, Resilient, and Green (LARG) practices effects on sustainable supply chains", Transportation Research Part E: Logistics and Transportation Review, 145, 102170 (Scopus Indexed; ABDC indexed Journal: 'A*' Category; Impact Factor:4.69; h-index 110; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.tre.2020.102170).
- 32. Kumar, S., Raut, R. D., **Narwane, V. S.**, Narkhede, B. E., & Muduli, K. (2021). "Implementation barriers of smart technology in Indian sustainable warehouse by using a Delphi-ISM-ANP approach", International Journal of Productivity and Performance Management. (Scopus Indexed; ABDC indexed Journal: 'B' Category; Impact Factor: 2.77; hindex 61; Publisher: Emerald; DOI: https://doi.org/10.1108/ijppm-10-2020-0511)
- 33. Shah, H. M., Gardas, B. B., **Narwane, V. S.**, & Mehta, H. S. (2021). The contemporary state of big data analytics and artificial intelligence towards intelligent supply chain risk management: a comprehensive review. Kybernetes (*Scopus Indexed; Impact Factor: 1.765; hindex 40; Publisher: Elsevier*, DOI: https://doi.org/10.1108/K-05-2021-0423)
- 34. Gabani P., Gala U., Narwane, V. S., Raut, R. D., Narkhede, B. E., and Govindarajan, U. (2021) "A Viability Study Using Conceptual Models for Last Mile Drone Logistics Operations in Populated Urban Cities of India", IET Collaborative Intelligent Manufacturing. (Scopus Indexed; Impact Factor: 0.355; Publisher: Wiley; DOI: https://doi.org/10.1049/cim2.12006)
- 35. Raut, R. D., Yadav, V. S., Cheikhrouhou, N., Narwane, V. S., & Narkhede, B. E. (2021) "Big data analytics: Implementation challenges in Indian manufacturing supply chains", Computers in Industry, 125, 103368 (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 7.635; h-index 100; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.compind.2020.103368).
- 36. Nayal, K., Raut, R. D., Priyadarshinee, P., Narkhede, B.E., Kazancoglu, Y., and **Narwane, V. S.** (2021). "Exploring the role of artificial intelligence in managing agricultural supply chain risk to counter the impacts of COVID-19 pandemic", International Journal of Logistics Management. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 5.212; h-index 77; Publisher: Emerald; DOI: https://doi.org/10.1108/ijlm-12-2020-0493)
- 37. Gedam, V. G., Raut, R. D., Inamdar, Z.Z., Narkhede, B.E., Dharaskar, S., and Narwane, V. S. (2021). "COVID-19 critical success factors in Indian Healthcare sector- a DEMATEL Approach", Journal of Multi-Criteria Decision Analysis. (Scopus Indexed; Impact Factor: 0.355; h-index 62; Publisher: Wiley; DOI: https://doi.org/10.1002/mcda.1763)

2020

38. **Narwane, V. S.**, Raut, R. D., Mangla, S. K., Gardas, B. B., Narkhede, B. E., Awasthi, A., & Priyadarshinee, P. (2020), "Mediating role of cloud of things in improving performance of small and medium enterprises in the Indian context", Annals of Operations Research, 1-30. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 4.854; h-index 96;

- Publisher: Springer; DOI: https://link.springer.com/article/10.1007/s10479-019-03502-w).
- 39. **Narwane, V. S.**, Raut, R. D., Yadav, V. S., & Singh, A. R. (2020), "Barriers in sustainable industry 4.0: a case study of the footwear industry", International Journal of Sustainable Engineering, 1-15. (*Scopus Indexed; Impact Factor: 2.3; Publisher: Taylor and Francis Online; DOI: https://doi.org/10.1080/19397038.2020.1836065*).
- 40. Inamdar, Z.Z., Raut, R.D., **Narwane, V.S.**, Gardas, B. B., Narkhede, B.E, & Sagnak, M. (2020), "A systematic literature review with bibliometric analysis of big data analytics adoption from period 2014 to 2018", Journal of Enterprise Information Management. (*Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor 5.839; h-index 61; Publisher: Emerald Publishing Limited; DOI: https://doi.org/10.1108/JEIM-09-2019-0267).*
- 41. Mangla, S.K., Raut, R., Narwane, V.S., Zhang, Z. & Priyadarshinee, P. (2020), "Mediating effect of big data analytics on project performance of small and medium enterprises", Journal of Enterprise Information Management (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor 5.839; h-index 61; Publisher: Emerald Publishing Limited; DOI: https://doi.org/10.1108/jeim-12-2019-0394).
- 42. Kumar, M. S., Raut, R. D., **Narwane, V. S.**, & Narkhede, B. E. (2020). "Applications of industry 4.0 to overcome the COVID-19 operational challenges", Diabetes & Metabolic Syndrome: Clinical Research & Reviews, 14, 1283-1289 (*Scopus Indexed; CiteScore: 4.9; hindex 40; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.dsx.2020.07.010).*
- 43. Narkhede, B.E., Raut, R.D., **Narwane, V.S.**, & Gardas, B.B. (2020) "Cloud Computing in healthcare- A vision, challenges and future directions", International Journal of Business Information Systems, 34(1), 1-39 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26 Publisher: Inderscience Enterprise Ltd, DOI: https://doi.org/10.1504/IJBIS.2020.106799*).

2019

- 44. **Narwane, V. S.**, Raut, R. D., Gardas, B. B., Kavre, M. S., & Narkhede, B. E. (2019), "Factors affecting the adoption of cloud of things", Journal of Systems and Information Technology, 21(4), 397-418 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; CiteScore:1.79; Publisher: Emerald Publishing Limited; DOI: https://doi.org/10.1108/JSIT-10-2018-0137*).
- 45. Narwane, V. S., Narkhede, B.E., Raut, R.D., Gardas B. B., Priyadarshinee P. and Kavare, M. S. (2019) "To identify the determinants of the CloudIoT technologies adoption in the Indian MSMEs: structural equation modelling approach", International Journal of Business Information Systems, 31(3), 322-353 (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26; Publisher: Inderscience Enterprise Ltd; DOI: https://doi.org/10.1504/IJBIS.2019.101110).
- 46. **Narwane, V.S.**, Narkhede, B.E., Gardas, B.B. & Raut, R.D. (2019) "Cloud manufacturing issues and its adoption: past, present, and future", International Journal of Management Concepts and Philosophy, 12(2), 168-199 (Scopus indexed; Impact Factor: 0.05; h-index 3; Publisher: Inderscience Enterprise Ltd; DOI: https://doi.org/10.1504/IJMCP.2019.099319).
- 47. Shashikumar S., Raut, R.D., **Narwane, V.S.**, Gardas, B.B., Narkhede, B.E., & Awasthi A. (2019) "A Novel Approach to determine Cell Formation using Hybrid Technique", OPSEARCH, 56(3), 628-656 (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor 1.60; h-index 20; Publisher: Springer International Publishing; DOI: https://doi.org/10.1007/s12597-019-00381-4).
- 48. Raut, R.D., Narkhede, B.E., **Narwane, V.S.**, & Gardas, B.B., (2019) "Improvement in the Food Losses in Fruits and Vegetable Supply Chain A Perspective of Cold Third-Party Logistics Approach", Operations Research Perspectives, 6, 100-117 (Scopus Indexed; Impact Factor 0.29; h-index 16; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.orp.2019.100117).
- 49. Raut, R.D., Mangla S.K., Narwane, V.S., Gardas, B.B., Priyadarshinee P., & Narkhede, B.E. (2019) "Linking Big Data Analytics and Operational Sustainability Practices for Sustainable

- Business Management", Journal of Cleaner Production, 224, 10-24 (Scopus Indexed; SCI Expanded; ABDC indexed Journal: 'A' Category; Impact Factor 9.289; h-index 200; Publisher: Elsevier; DOI: https://doi.org/10.1016/j.jclepro.2019.03.181).
- 50. Raut, R.D., Gardas, B.B., Narkhede, B.E., & Narwane, V.S. (2019) "To Investigate the Determinants of Cloud Computing Adoption in the Manufacturing Micro, Small & Medium Enterprises: A DEMATEL Based Approach", Benchmarking: an International Journal, 26 (3), 990-1019 (Scopus Indexed; ABDC indexed Journal: 'B' Category; Impact Factor 2.6; h-index 61; Publisher: Emerald Publishing Limited; DOI: https://doi.org/10.1108/BIJ-03-2018-0060).

Book Chapter Articles (Scopus Indexed)

- 51. **Narwane, V. S.**, Siddavatam, I., & Raut, R. D. (2022). Cloud-Based Manufacturing Service Selection Using Simulation Approaches. Smart Manufacturing Technologies for Industry 4.0: Integration, Benefits, and Operational Activities, 49. CRC Press (DOI: https://doi.org/10.1201/9781003186670-6)
- 52. **Narwane, V. S.**, Raut, R. D., & Narkhede, B. E. (2021) Roadmap to Smart Manufacturing for Developing Countries. In Sustainability in Industry 4.0 (pp. 221-232). CRC Press. (*DOI:* https://doi.org/10.1201/9781003102304)
- 53. Suroshe, M. S., **Narwane, V. S.**, & Raut, R. D. (2021) Machine Learning Perspective in Additive Manufacturing. In Sustainability in Industry 4.0 (pp. 161-178). CRC Press. (*DOI:* https://doi.org/10.1201/9781003102304)
- 54. Gardas, B. B., **Narwane, V. S.**, & Ghongade, N. P. (2021). Analyzing the Obstacles to Sustainable Packaging in the Context of Developing Economies: A DEMATEL Approach. In Sustainable Packaging (pp. 71-83). Springer, Singapore. (*DOI:* https://doi.org/10.1007/978-981-16-4609-6)

Journal Articles (International/National- Non-Scopus)

- 55. Narwane S. V., Sunnapwar, V. K., & **Narwane, V. S.** (2023) "Design of Cold Supply Chain for Perishable Food Products for improving the Dimensions of Sustainability", *Industrial Engineering Journal*, Vol. XVI & Issue No. 12 December 2023. (IIIE Publication-UGC Approved)
- 56. Mehta D.K., **Narwane, V. S.**, Karadge N. R. & Raut, R.D. (2022) "Dynamic Cell Formation With Machine Reliability: Genetic Algorithm Approach", Industrial Engineering Journal, Vol. XV & Issue No. 3 March 2022. (IIIE Publication-UGC Approved)
- 57. **Narwane, V. S.**, Narkhede, B. E., Bhosale V. V., & Jain P.(2020), "Comparative analysis of PID and fuzzy logic controller: A case of furnace temperature control", Journal of Current Science and Technology, 10(2), 109-120
- 58. Menon, C. B., & **Narwane**, V. S. (2020) "Relevance of Database and Information Retrieval System in Mechanical Engineering Program: A Case Study", Journal of Engineering Education Transformations, 33, 447-450.
- 59. Kotian, L., Chheda, A., **Narwane, V.S.**, and Raut, R.D. (2019) "Unmanned Aerial Vehicle for Road Monitoring: Fully Convolutional Networks Approach", Industrial Engineering Journal, Vol. XII & Issue No. 6 June 2019. (IIIE Publication-UGC Approved)
- 60. Inamdar Z.Z., **Narwane, V. S.**, Raut, R.D., and Narkhede, B.E. "Literature Review on Value Stream Mapping Using Bibliometric Tool", Industrial Engineering Journal, Vol. 12 & Issue No. 3 March—2019
- 61. Bhattacharjee, R., Kulkarni, K., & **Narwane, V. S.** (2019) "Re-configurable Manufacturing Systems: Research Trends", Aweshkar, 28(1) 63-76.
- 62. Narwane, V. S., Narkhede, B.E., Raut, R.D., Siddavatam I.A., and Ravishankar B. "A Perspective of Smart Manufacturing: A Case Study" Industrial Engineering Journal, Vol. XI & Issue No. 7 July 2018. (IIIE Publication-UGC Approved)

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International Conference (Abroad)

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- 72. Khirani, D., Doctor, A., **Narwane, V. S.**, Raut, R. D., & Narkhede, B. E. (2019) 'To understand the applications of cloud computing adoption in various sectors', Proceedings of the International Conference on Industrial Engineering and Operations Management, Pilsen, Czech Republic, July 23-26, 2019
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- 83. Kavare, M. S., **Narwane, V. S.** & Raut, R.D. (2017) "Cloud Adoption in Various Domains and Factors Influencing Its Adoption", International Conference On Emanations in Modern Technology and Engineering (ICEMTE- 2017), Thane, India, March 4-5, 2017
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- 85. Samant, A.N., **Narwane, V. S.** & Siddavatam, I.A. (2017) "The Critical Assessment of Cloud Manufacturing Technology and Future Trends", International Conference On Emanations in Modern Technology and Engineering (ICEMTE- 2017), Thane, India, March 4-5, 2017
- 86. Shaikh A., Narwane, V. S., Gilke, N.R. & Bhosale V.V. (2017) "Mamdani Verses Sugeno Fuzzy Inference Approach for Adaptive Cruise Control", 4th International Conference of Industrial Engineering (ICIE), Surat, India, September 21-23, 2017
- 87. Mehta D.K., Karadge N. R. & **Narwane, V. S.** (2017) "A Mathematical Model to Solve the problem of Dynamic Cell Formation and Plant Layout considering Machine Reliability", 4th International Conference of Industrial Engineering (ICIE), Surat, India, September 21-23, 2017
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National Conference

- 90. **Narwane, V. S.**, Raut, R.D., Narkhede, B.E. & Borkar V.(2018) "Critical success factors in implementation of Cloud of Things for manufacturing" in National Conference on Industrial Engineering & Technology Management 'Reimagining Industrial Engineering and Technology Management for Value Creation' 30 Nov 01 December, 2018 at NITIE Mumbai.
- 91. Mehta D.K., **Narwane, V. S.**, Karadge N. R. & Raut, R.D. (2018) "Dynamic Cell Formation and Plant Layout with Machine Reliability: Mathematical Model and Simulation" in National Conference on Industrial Engineering & Technology Management 'Reimagining Industrial Engineering and Technology Management for Value Creation' 30 Nov 01 December, 2018 at NITIE Mumbai.
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Industrial Engineering and Technology Management, Mumbai, Excel India Publishers, pp. 625-640						
023-040	625-640					
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No of Research / consultancy /	No of Research / consultancy /	No of Research / consultancy /				
projects completed: 01	projects on-going:	projects on applied as on date:				
Rs: 3.00 Lacs	Rs <u>:</u> Nil	Rs <u>:</u> Nil				
Details of Research / consultancy / projects:						
Completed- CNC Lathe Machine – Industry consultancy and training						
On-going- Nil						
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Applied- Nil						
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FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

• More than 20

Organized

- 1. Convener of Technical Program Committee of International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024) scheduled on 15-16 April 2024, Mumbai, India.
- 2. Coordinator for Workshop on "Sustainable Research and Development" Sponsored by DST (Offline- 02 to 06 January, 2024)
- 3. Coordinator for AICTE –ISTE Approved One Week refresher course on "Cognizance of Industry-4.0 towards Implementation and Security 30th December, 2019 04th January, 2020 (Offline)

Delivered

- 1. "Big data and Data processing in manufacturing systems" at ATAL Academy Faculty Development Program FDP Pillai HOC College of Engg. & Technology, 24-28 Aug. 2021
- 2. "Technologies and Initiatives of Industry-4.0" at AICTE –ISTE Approved One Week refresher course on "Cognizance of Industry-4.0 towards Implementation and Security 30th December, 2019 04th January, 2020
- 3. Guest Speaker for the Workshop on "MATLAB for Data Analysis"- Department of Economics, S. K. Somaiya College, Mumbai (18 January, 2024)
- 4. Guest Speaker for the Workshop on "Sustainable Research and Development" at K. J. Somaiya College, Mumbai (03 January, 2023)
- 5. Guest Speaker for the Workshop on "Basics and Advanced MATLAB" at S. K. Somaiya College, Mumbai (05 September, 2023)
- 6. Guest Speaker for FDP on "Systematic Literature Review and Meta-Analysis" at IIMS, Pune (03 June, 2023)
- 7. Guest Speaker for Hands-on Workshop on "Reference Management, Bibliometric Review, and MCDM" at Sarawati College of Engineering, Kharghar, Navi Mumbai (27- 28 May 2024)

	Notable Key Scholastic Achievements
1.	Google Scholar - Citations :2347; h-index: 24; i10-index: 29
	• Research Gate- RI Score: 1379; Recommendations: 668; Reads: 27,859
2.	Associate editor of the journal "IET Digital Twins and Applications", Wiley Publication.

	Guest editor of Special Issue "Machine Learning Methods and IoT for Sustainability"
	Sustainability Journal (Impact Factor-3.889, Citescore-5.0, MDPI Publisher)
3.	Best Paper 2016-17, Indian Institution of Industrial Engineering, Awarded on September 15,
	2017
4.	First prize under faculty category National Essay Competition at National Institute of Industrial
	Engineering (NITIE), Mumbai in February, 2019
5.	Organizing Secretary for 62 nd National Convention of Indian Institution of Industrial
	Engineering (IIIE) at Mumbai
6.	Organizing Committee member for 63 rd National Convention of Indian Institution of Industrial
	Engineering (IIIE) at Vadodara
7.	Secretary, Indian Institution of Industrial Engineering, Mumbai Chapter from 2016 to 2022
8.	Secured first rank in Master's Degree at Shri Guru Govind Singhji College of Engineering and
	Technology, Nanded
	Stood First in the PhD course work (9.75 CPI).
9.	Letter of appreciation from Padma Shri Dr. G. D. Yadav for research contributions at KJSCE
10.	Award of Appreciation in the International Conference on Embracing Industry 4.0 Technologies
	for Sustainable Growth (ICEI 4.0) at RGIT, Mumbai in April, 2022

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	Notable Positions and Responsibility			
1.	Worked as Associate HOD of Mechanical Department of the college			
2.	Treasurer of KJSCE Co-operative Society, Mumbai			
3.	Member at the college Examination Committee and Result Moderation Committee			
4.	Worked as Centre Superintendent for KJSCE- NEET (UG)- 2021, 2022, 2023			
5.	Coordinator of Department Examination Committee from 2017-2022			
6.	Member at the college Woman Development Cell			
7.	Member at the college Special Cell			
8.	Worked as Coordinator for Application Receiving Center (ARC-53 at KJSCE)			
9.	Chairman Committee for Prevention of Caste- Based Discrimination at SVU			

Date: 08 / 09 / 2024 Signature of Faculty Member