

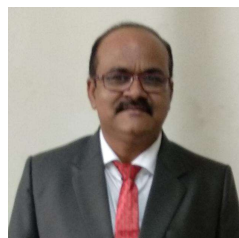
CURRICULUM VITAE

Dr Nandkishor Marotrao Sawai

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Summary:

Motivating and talented professional and driven to inspire students to pursue academic and personal excellence. Strives to create a challenging and engaging learning environment in which students become life-long scholars and learners. Innovative teaching methods will be shared. Experience in filing multiple patents and published multiple research papers in reputed journal.

Education Qualifications:

Qualification	Specialization	Institute	University	Passing Year	Percentage	Division
Ph D	Mechanical Engineering	KDK College of Engineering, Nagpur	RTMNU, Nagpur	2020	--	--
M Tech	CAD/CAM	YCCE, Nagpur	RTMNU, Nagpur	2008	69.55 %	First
BE	Mechanical Engineering	BDCOE, Sewagram, Wardha	RTMNU, Nagpur	1995	60.00 %	First

Work Experience: Teaching 17 Year and Industry Experience 8.7 Years

Teaching Experience: (17 Years)

1 st April 2020 to till date	Associate Professor in Mechanical Engineering Department and charge of Registrar at Tulsiramji Gaikwad Patil College of Engineering and Technology, Mohagaon, Wardha Road, Nagpur.
9 th July 2019 to 20 th March 2020 (UGC Approved One Year)	Assistant Professor in Mechanical Engineering Department at Dattakala Group of Institutions Faculty of Engineering, Swami-Chincholi, (Bhigwan), Tal. Daund, Dist. Pune
18 th June 2018 to 31 st May 2019	Assistant Professor in Automobile Engineering Department at Dr D Y Patil School of Engineering & Technology, Lohgaon, Pune.
10 th Feb. 2015 to 31 st May 2018 (UGC Approved)	Assistant Professor in Mechanical Engineering Department and charge of officiating Principal at Vidya Niketan Institute of Engineering & Technology, Nagpur.
11 th June 2009 to 9 th Feb. 2015 (UGC Approved)	Assistant Professor and Head of Department in Mechanical Engineering at Dr. Bhausaheb Nandurkar College of Engineering & Technology, Yavatmal

5 th July 2005 to 13 th May 2009	Meghe Group of Institutions Lecturer in Mechanical Engineering Department, one year in S. V. S. S. College of Engineering & Research, Nagpur , two years & seven months in Shri Datta Meghe Polytechnic, Nagpur , five months Y.C.C.E. Wanadongri, Nagpur .
19 th Feb 1996 to 20 th Nov. 1996	Lecturer in Mechanical Engineering Department, at Arvindbabu Deshmukh Polytechnic, Katol.

Industry Experience: (8.7 Years)

1 st Aug. 2004 to 30 th June 2005	Asst. Mechanical Engineer, at The RaiSaheb Rekhchand Mohota Spg. & Wvg. Mills Ltd., Wani Tan. Hinganghat,
05 th Feb 1999 to 20 th June 2004	Production Engineer at Manabar Industries, MIDC, Industrial Area, Nasik
17 th Sept. 1997 to 12 th Jan. 1999	Factory Manager, at H. M. Door's Pvt. Ltd, Andheri (West), Mumbai
22 nd Nov. 1996 to 11 th Sept. 1997	Executive Technical, at Vortex Corroborates, New Marine Line, Mumbai

Patents Published / Filed

1. "Pedal Operated Mechanism For Sugarcane Juice Extractor Machine", Application number 202121054202, dated 02/06/2021. Published in the Indian Patent Office Journal No.: 07/2022 dated 18/02/2022, Page No. 9270.
2. "Counting Mechanism For Seed Fish Fry And Baby Fish Fingerlings", Application number 202121054194, dated 02/06/2021. Published in the Indian Patent Office Journal No.: 07/2022 dated 18/02/2022, Page No. 9269.
3. "Mechanism For Loading And Unloading Of Lpg Cylinder From Vehicle", Application number 202121054189, dated 02/06/2021. Published in the Indian Patent Office Journal No.: 02/2022 dated 14/01/2022, Page No. 1422.
4. "E-Commerce As A Service On SaaS Model For Business Purpose", Application number 202121048437, dated 02/06/2021. Published in the Indian Patent Office Journal No.: 44/2021 dated 29/10/2021, Page No. 50164.
5. "A Security Mechanism for Oil Pilferage and Leakage detection by Laser using IoT", Application number 202121024579, dated 02/06/2021. Published in the Indian Patent Office Journal No.: 28/2021 dated 09/07/2021, Page No. 30680.
6. "Identification of Artificially Ripened Fruits Using Matlab", Application number 202121002228, dated 18/01/2021. Published in the Indian Patent Office Journal No.: 07/2021 dated 12/02/2021, Page No. 6670.
7. "Preventing Cavitation (Reinforced PTFE Material) Used in Seat Ring and Locking System Adopted in Plug with Stem of Boiler Feed Recirculation Valve In Power Plant", Application number 202121000442, dated 05/01/2021. Published in the Indian Patent Office Journal No.: 05/2021 dated 29/01/2021, Page No. 4429.
8. "Cavitations Protection Material (Resistant Cast Stainless Steel Grade 316) Used for Vacuum Pump Rotor and Cone", Application number 202021051147, dated 24/11/2020. Published in the Indian Patent Office Journal No.: 01/2021 dated 01/01/2021, Page No. 167.
9. "Exploiting of Reverse Osmosis Reject Water By Agglomeration Water (Aw) Technology", Application number 202021049786, dated 13/11/2020. Published in the Indian Patent Office Journal No.: 48/2020 dated 27/11/2020, Page No. 59622.
10. "Wear Resistant Silicon Carbide Material Used for Turbine Labyrinth Seal", Application number 202021046629, dated 26/10/2020. Published in the Indian Patent Office Journal No.: 46/2020 dated 13/11/2020, Page No. 58168.

11. "Potter's Wheel Rotates by Ratchets Mechanism", Application number 202021041965, dated 28/09/2020. Published in the Indian Patent Office Journal No.: 44/2020 dated 30/10/2020, Page No. 55238.
12. "Smart Pill Box System for Patients & Blind People", Application number 202024041106, dated 22/09/2020, Published in the Indian Patent Office Journal No.: 41/2020 dated 09/10/2020, Page No. 52374.
13. "Floor Cleaning Machine", Application number 202021038849, dated 09/09/2020, Published in the Indian Patent Office Journal No.: 38/2020 dated 18/09/2020, Page No. 40998.
14. "Die machine for multiple earthen pots (Kullar) in the pottery production", Application number 202021011220, dated 16/03/2020, Published in the Indian Patent Office Journal No.: 13/2020 dated 27/03/2020, Page No. 15743.
15. "Cotton Boll Loosening and Cleaning Machine", Application Number 202021008092, Dated 26/02/2020, Published in the Indian Patent Office Journal No.: 10/2020 dated 06/03/2020, Page No. 12439.
16. "Potter's Wheel Operates by DC motor with Variable Speed", Application number 201921046897, dated 18/11/2019, Published in the Indian Patent Office Journal No.: 47/2019 dated 22/11/2019, Page No. 54832.
17. "Vibrator machine for collecting of wire ropes for plastic/fiber Mattress", Application number 201921023246, dated 12/06/2019, Published in the Indian Patent Office Journal No.: 51/2020 dated 18/12/2020, Page No. 62781.
18. "Profile and tools use for the pottery production" Application number 201821012915, dated 05/04/2018, Published in the Indian Patent Office Journal No.: 41/2019 dated 11/10/2019, Page No. 47887.
19. "Human powered pedal mechanism for potter's wheel" Application number 201821012923, dated 05/04/2018, Published in the Indian Patent Office Journal No.: 41/2019 dated 11/10/2019, Page No. 47888.

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1. "Manually Operated Potter's Wheel by using Sewing Machine Pedal Mechanism", of **Literary/Dramatic** works the Diary No. 14717/2021-CO/L dated 03/07/2021.

International Journal Papers-

1. "Optical CAD modeling and designing of compound die using the Python Scripting Language", International Journal on Interactive Design and Manufacturing (IIIDeM) ([SCI Journal](#)), Publisher – Springer, ISSN: 1955-2505 (Online) & 1955-2513 (Offline), [Paper Accepted](#).
2. "Review On Design Of Mechanism For Making Of Different Earthen Wares On Potter Wheel", Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology ([Scopus Journal](#)), publisher- Harbin Institute of Technology, ISSN: 0367-6234, Vol. 54, Issue: 4, Pages: 202-206.
3. "Design and Development of Profiles and Tools for throwing on the potter's wheel", International Journal of Mechanical Engineering ([Scopus Journal](#)), publisher- Kalahari Journals, ISSN: 0974-5823, Vol. 7 No. 1 (January, 2022), Pages: 3062-3069.
4. "An Ergonomic Design of Sewing Machine Pedal Mechanism Operated Potter's Wheel", Design Engineering (Toronto) ([Scopus Journal](#)) ISSN: 0011-9342, Year 2021, Issue: 9, Pages: 4481-4488.
5. "Design and Fabrication of Cotton Ball Loosening and Cleaning Machine-A Pre Ginning Process", Kala Sarovar ([UGC Care Group-I Journal](#)), ISSN: 0975-4520, Vol-24 No. 04 October-December 2021, pp 10-17.
6. "Review on Virtual design system of compound die for Press Machine", International Journal of Engineering Research and Application (IJERA), ([UGC Journal](#)), ISSN: 2248-9622, Vol. 10, Issue 10, (Series-V) October 2020, pp. 25-29.
7. "Design and Development of Battery Operated Potter's Wheel with Variable Speed", International Journal of Advanced Science and Technology (IJAST), ([Scopus Journal](#)) ISSN:2005-4238, Vol. 29, No. 5, (2020), pp. 14036 – 14044.

8. "Development and Modification of Potter's Wheel by Using Sewing Machine Pedal Mechanism and Chain Sprocket", International organization of Scientific Research Journal of Engineering (IOSRJEN), ([UGC Journal](#)) ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 10, Issue 1, January 2020, ||Series -IV|| PP 11-18
9. "Design and Fabrication of A Manually Operated Potter Wheel By Using Sewing Machine Pedal Mechanism", Journal of Emerging Technologies and Innovative Research (JETIR), ([UGC Journal](#)), May 2019, Volume 6, Issue 5, ISSN-2349-5162, PP 40-47
10. "Throwing Profile and Tools on the Potter's Wheel for the Production in the pottery: A Critical Review", International Journal of Innovations in Engineering and Science, Special Conference Issue, 2018, e-ISSN: 2456-3463, pp 257-262.
11. "Potter's Wheel Efficiency in Clay Pot Production in Rural Area: A Critical Review", International Journal of Advance Electronics & Communication System ISSN No. 2277-7318, March 2017, pp 299-304.
12. "Methodology for Production of Earthen Pot Profile Making – A Review", International Journal for Scientific Research & Development (IJSRD), ([Google Scholar](#)) Vol. 2, Issue 03, 2014/ ISSN (online): 2321-0613, pp 153-156.
13. "Design of Mechanism for Specific Profile on Earthen Pot Making", International Journal for Innovative Research in Science & Technology (IJIRST), ([Google Scholar](#)) Vol. 1, Issue 7, December 2014/ ISSN (online): 2349-6010, pp 96-99.

International Conference Papers –

1. "Need of Entrepreneurial Culture in Vidarbha Region of Maharashtra", International Conference on Industrial Engineering (ICIE-2011), 17-19 November 2011, S. V. National Institute of Technology, Surat (Gujrat).

National Conference Papers –

1. "Bio-Artificial Liver" National Conference on Engineering Trends in Medical Sciences 06-07 February 2014, Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
2. "Computer Aided Process Planning in Die Manufacturing", National Conference on Recent Advance in Manufacturing Engineering & Technology (RAMET-2011), 10-11 January 2011, VNR VJIET, Hyderabad.
3. "Energy Generation Combined System of Wind and Hydro in India Use of Non conventional Energy source", ISTE Sponsored National Conference "SCIENSEA-2K11" 21-22 January 2011, Shri Sant Gadge Baba College of Engineering & Technology, Bhusawal.
4. "Reliability Centered Maintenance use in Stone Crusher Plant", Second Biennial National Conference on Nascent Technologies in the field of Mechanical Engineering, 25-26 Feb 2010, Fr. C. Rodrigues Institute of Technology, Navi Mumbai.
5. "Rapid Prototyping Technology in Biomedical Engineering – A Review", National Conference on Biomedical Electronics Engineering & Bioinformatics, 10-11 January 2010, (NCBEB-2011), 10-11 January 2011, Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
6. "Smart Dust Sensors Network: Biomedical Applications and energy harvesting", National Conference on Biomedical Electronics Engineering & Bioinformatics, (NCBEB-2011), 10-11 January 2011, Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.

Conference Organization–

1. Executive Member, National Conference on Engineering Trends in Medical Sciences 06-07 February 2014, Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
2. Convener, One day workshop on "Recent Advances in Industrial Management & Technology-The Role of SAP-R/3" 4th Oct. 2013, at Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
3. Member, National Conference on Biomedical Electronics Engineering & Bioinformatics, 10-11 Feb. 2010, (NCBEB-2011), at Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.

4. Member, National Conference on Recent Trends in Engineering Sciences, 11-12 Oct. 2010, (NCRTE-2010), at Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.

Faculty Development Program, Conferences & Workshops Attended–

1. One day syllabus implementation workshop for the subject “Engineering Graphics”, organized by First Year Engg. Department, PICT, in association with Board of Studies in Mechanical and Automobile Engineering, Savitribai Phule Pune University, Pune on 09/01/2020.
2. One day State level Workshop on “NBA ACCREDITATION – An Outcome Based Approach”, at Dhole Patil College of Engineering, Pune, 28th December 2019.
3. Two days conference, Participated during Patent presentation in the Conference on Indian Patents, Copyrights, Innovations and Startups (CIPCIS-2019) organized by Pimpri Chinchwad college of Engineering and Research, Ravet, Pune, 21st and 22nd December 2019.
4. Three days faculty development program for student induction: Level 1 Jointly organized AICTE and Dr D. Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune, 13th to 15th May 2019.
5. Two days National level workshop on “Self – Driving Car using Artificial Intelligence” Organised by Mechanical Engineering Department Dr D Y Patil School of Engineering & Technology, Lohgaon, Pune. In collaboration with Savitribai Phule Pune university, Pune, 10th & 11th Jan 2019.
6. One day NBA Orientation workshop on outcome Based Accreditation Process & Parameters, Jointly organized Rashtrasant Tukdoji Maharaj, Nagpur University, Nagpur, & Gondwana University, Gadchiroli at LKM Institute of Management Studies & Research, Chandrapur, 13th April 2017.
7. One day workshop on “ISRO’s FEAST FEA Technology” Jointly organized Rashtrasant Tukdoji Maharaj, Nagpur University, Nagpur & SVR InfoTech, VSSC ISRO, at KDK College of Engineering, Nagpur, 07th March 2017.
8. One day workshop on “Teacher in U” organized jointly by Raisonni Group, Nagpur, 11th Jan 2014.
9. One day Symposium on “Academic Excellence: Challenges and Opportunities” organized jointly by Directorate of Technical Education and G. H. Raisonni College of Engineering, Nagpur, 11th June 2011.
10. Two days workshop on “Cyber Security” under TEQIP, organized jointly by Department of computer & Information Technology, YCCE, Nagpur & Intelligent Quotient System Pvt. Ltd., Pune, at Yeshwantrao Chavan College of Engineering, Nagpur, during 3rd March to 4th March 2008.
11. Three days workshop on “Induction Training Program” organized by Yeshwantrao Chavan College of Engineering, Nagpur, at MBA Auditorium, SDMP Campus, Atrey Layout, Nagpur, during 8th July 2005 to 10th July 2005.

STTP Attended –

1. Pre Ph.D. course work organized by UGC-Human Resource Development Centre, Rashtrasant Tukdoji Maharaj, Nagpur University, Nagpur & Datta Meghe Institute of Management Studies, Nagpur from 14th June 2017 to 24th June 2017.
2. One week STTP on “Research Methodology including Mathematical Modeling, Computer Application & Simulation” organized by Department of Mechanical Engineering, Priyadarshini College of Engineering, Nagpur, 26th Dec. 2013 to 26th Dec. 2013.
3. Two weeks STTP on “Introduction to Research Methodology” ISTE approved organized by Jawaharlal Darda Institute of Engineering & Technology, Yavatmal, 12th Dec. 2012 to 21st Dec. 2012.
4. Two weeks STTP on “Advanced Tool for Computational Analysis in Engineering and Technology” ISTE approved organized by Jawaharlal Darda Institute of Engineering & Technology, Yavatmal, 24th Dec. 2012 to 4th Jan. 2013.

Membership of Professional Societies -

1. Member of the Indian Society for Technical Education (ISTE), New Delhi, from 2010, [LM72309].
2. Member of Green ThinkerZ Society, A Registered Society promoting Social& Environmental Sustainability, India, from June 2017. [GT2014RM092].

Book Published –

1. “PRODUCTION PROCESSES” for fourth semester Mechanical and Production Engineering, Polytechnic Students of MSBTE, publish by S.CHAND& COMPANY LTD.(AN ISO 9001 : 2008 COMPANY) Ram Nagar, New Delhi, Academic Year 2011.

Other Major Works –

1. Dean Academic at Dattakala Group of Institutions Faculty of Engineering, Swami-Chincholi (Bhigwan), Pune.
2. Worked as First Year Coordinator at Dr D Y Patil School of Engineering & Technology, Lohgaon, Pune.
3. Officiating Principal from the session 2016-17 and 2017-18 at Vidya Niketan Institute of Engineering & Technology, Nagpur
4. Worked as Dean Administrative and Head of Department of Mechanical Engineering at at Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
5. Worked as ARC Officer in the Session 2014-15, at Dr. Bhausaheb Nandurkar college of Engineering & Technology (ARC-1122), Yavatmal.
6. SGBAU, Amravati appointed as Exam. Controller in Summer-14 at Jawaharlal Darda Institute of Engineering & Technology, Yavatmal.
7. Worked as Admission-in-Charge in the Session 2009-10, 2010-11 & 2011-12 at Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
8. Worked as In-Charge AICTE Web Portal (Online Submission) in the Session 2009-10, 2010-11,2011-12,2012-13 & 2013-14 at Dr. Bhausaheb Nandurkar college of Engineering & Technology, Yavatmal.
9. Coordinator of ‘Spartan Club’ at Dr. Bhausaheb Nandurkar college of Engineering& Technology, Yavatmal.
10. Worked as Workshop In-Charge in the Session 2009-10 at Dr. Bhausaheb Nandurkar college of Engineering& Technology, Yavatmal.

Personal Details:

- Marital Status : Married
- Date of Birth : 05/12/1972
- Permanent Address : 186, Bajaj Nagar, Near Kasturba Bhavan,
Nagpur – 440010

Date :

Place :

Dr Nandkishor Marotrao Sawai