

Name: **DR. ARUN BHIVA RANE**

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Date of Birth : July 2, 1962

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Summary:-

I am Ph.D. in Mechanical Engineering with distinction at Master's level. I have 23 years of industrial experience (including overseas) and 17 years of teaching experience at UG and PG level, inclusive of five years of post-PhD. I have 30 research publications, out of which seven are in SCI journals and 10 are in UGC approved list of journals at the level of Associate Professor. My h-index is 7 and i-10 index is 5 with 119 citations. I am recognized as a post graduate teacher and PhD. teacher in mechanical engineering by university of Mumbai. My industrial experience was very much useful in academics. My research interests are precision machining, tool design, process modelling and simulation.

Academic background:

Exam Passed	Year of passing	Marks obtd.	School/college	Examining Authority
S.S.C.	Mar. 1977	77.57 %	A E S School	Pune Board
H.S.C.	April 1979	74.33 %	D G Ruparel College	Pune Board
D.M.E.	27.08.1982	72.78 %	M H S S Polytechnic	BTE, Maharashtra state
A.M.I.E. (Sec. A)	06.03.1982	51.78 %	M H S S Polytechnic	Institution of Engineers (I) Calcutta
A.M.I.E. (Sec. B Mech.)	03.03.1984	61.38 %	V.J.T.I. (Evg.Classes)	Institution of Engineers (I) Calcutta
M.E.(Production)	04.02.2006	75.30 %	Fr. C.R.C.E.Bandra(w)	Mumbai University
Ph.D.(Mechanical)	Aug. 2017	NA	Fr.CRIT, Navi Mumbai	Mumbai University
Chartered Engineer (India) – AM 201123-1				

Work Experience:

Name & Address of Employer	Period worked	Designation Salary p.m.	Contribution
Klockner Windsor (I) Ltd. Thane-400 604	05.08.1982 04.08.1987	Jr. Engr. Rs. 2,250 / -	Development of components and norms on CNC machines. Dependency, Monopoly of skilled labor was discontinued.
Sri Devi Tool Engineers Pvt. Ltd.Vasai-401208	05.08.1987 31.03.1990	Tool Room Engr. Rs.4000 /-	Mould making, 3 D program development without CAD-CAM software.
Karrie Manufacturer Singapore-1953	09.04.1990 10.07.1992	CNC Pro. & Mould maker S\$1,900/-	Mould design, Machining, Responsible from assembly till trouble shooting.
Sri Devi Tool Engineers Pvt. Ltd.Vasai-401208	22.07.1992 31.03.1997	Senior Engr. Rs.10,000 / -	Reduction in no. of trials. Selection of site, layout, Installation and Commissioning of mould mfg. set up
Bombay Dyeing & Mfg. Co. Ltd. Prabhadevi, 400025	04.04.1997 26.11.2002	Sr. Deputy Engr. Rs. 18,000 / -	Import substitution of costly spares. Reduction in machine down time, Calibration In-charge & Deputy MR for ISO 9002-1994.
K.V. Pneumatics, Ambernath - 421506	04.01.2003 13.02.2006	Prod. Manager Rs. 25,000/-	Development of new Products, Processes with U.K. Collaboration. Implemented ISO 9001-2000
Fr. C.Rodrigues College of Engg., Bandra(w), 400050	15.02.2006 31.07.2022	Associate professor Rs. 1,49,788/-	Retired. Teaching at UG & PG level, Lab in-charge for Cutting tool, CNC milling, CNC lathe lab.
Fr. C.Rodrigues College of Engg., Bandra(w), 400050	Since 01.08.2022	Assistant professor Rs. 60,000/-	Working on Ad-hoc basis. Teaching at UG level.

Family background:

Relation	Name	Occupation
Wife	Mrs. Saaylee A. Rane	Housewife
Daughter	Shraddha A. Rane (Married)	B.E.(Civil)
	Ms. Juhi A. Rane (Married)	B.E.(IT)

List of Publications

My papers are published in reputed international journals. I have presented papers in international conferences and National conferences (The list is attached herewith). I am also a reviewer of International journal of Production and Manufacturing Research and Australian Journal of Mechanical Engineering.

Seminar /Workshops/CEP attended/Organized

- Attended and conducted seminars, CEP, Workshop, and FDP.
- Visiting faculty and Guest lecturer for many institutions.

Contribution and Responsibilities handled in Academic Experience

- Contributed to Syllabus Revision Committee of Production branch at undergraduate and post graduate level for Mumbai University. Member of Board of Studies, University of Mumbai.
- Panel member for “Make in India: Igniting Manufacturing Renaissance” organized by Indian Society of Manufacturing Engineers and D J Sanghvi College of Engineering.
- Member of local inquiry committee for inspection of engineering colleges in Mumbai for affiliation of UG courses.
- Panel member of Research Grant Commission (University of Mumbai) and University moderation committee.
- On the panel of many institutions for Paper setting and conducting Viva-voce.
- Member of Technical panel for Jindal Steel Works Limited.
- Controlling officer at institute for State Disaster Management Plan as per act 2005.
- Guided 73 UG and 13 PG projects.
- As a TPO for five years, enhanced the internship and placement. Still mentoring students, helping students for career counseling.
- Successfully worked as Principal, ITI for two years.
- I am actively working for NAAC activities. I was also engaged in shifting, installing, lab relocation and infrastructure activities.
- As a part of **IRG (Internal Revenue Generation)**, I have conducted many courses on Arena simulation, FDP, training programs for IOCL, CNC training for CEAT, Evaluation of candidates for JSW, consultancy for DRDO, Deco metals etc.

Memberships

Associate Member of The Institution of Engineers (India), Member of The Institution of Engineers (India) Alumni Association, Chartered Engineer issued by The Institution of Engineers (India), Senior Member of The Indian Institution of Industrial Engineering, Life member of Indian Society for Technical Education and Indian Society for Manufacturing Engineers.

Thanks for being with me

Dr. Arun Bhiva Rane

List of Publications

Journals

S.no.	Title	Authors
1	"Literature review of Development and Optimization of Vehicle Assembly Line" in Open Journal of Optimization (OJOp), Nov. 2014, by Scientific Research Publishing.	A.B.Rane VKSunnapwar, SRane
2	Elimination of proprietary control for 3 axis computerized numerical control (CNC) milling machine, IJRET: International Journal of Research in Engineering and Technology, Vol: 03 Issue:01, Jan 2014	A.Sonawane, A.B.Rane, D.S.S.S.
3	"Strategies to overcome the HR barriers in successful lean implementation" Int. J. of Procurement Management, Vol.9, Issue 2, 2016, pp 223-247 (Inderscience publishers)	A.B.Rane, S.B.R. Dr. V.K.Sunnapwar
4	"Regression modeling for performance improvement of Assembly line" Journal of Basic and applied research international, 2015, Vol 11, Issue 1, pp 22-33 (International knowledge press)	A.B.Rane, D.S.S.S. Dr. V.K.Sunnapwar
5	"Mathematical modeling of Vehicle assembly line for throughput enhancement" Int. J. of Simulation and Process modeling, Vol 11, Nos. ¾, pp 305-325, 2016 (Inderscience publishers)	A.B.Rane, S.M.Khot Sunnapwar,RameshV
6	"Improving performance of Lock assembly line using lean and simulation approach" International Journal of Business Performance Management (IJBPM). Vol. 18, Issue no. 1, 2017, pp 101-124. (Inderscience publishers)	A.B.Rane, Dr.Chari, Dr. V.K.Sunnapwar M.Sharma, V.Jorapur
7	Elimination of proprietary control for CNC machine, Journal of Basic and applied research international, Vol. 17, Issue 3, pp. 211-217, 2016. (International knowledge press)	Sakib, A.B.Rane, S. Korgaonkar, D.S.S.S.
8	"Cost models for improved vehicle assembly line performance" Int. J. of Simulation and Process modeling, Vol. 12, Issue no. 2, 2017, pp 111-123. (Inderscience publishers)	A.B.Rane, S.M.Khot V.K.Sunnapwar
9	Case study based vendor selection by TOPSIS and Pugh Matrix approach Vol. 4, Issue IX, Sept. 2016, pp 435-445, ISSN no. 2321-9653. I.F. 5.011. IC value: 13.98 (Int. J. for Research in Applied Sc. & Engg. Tech.)	C. H. Gawandalkar A.B.Rane
10	"Assembly line performance and modeling", Journal of Industrial Engineering International, Vol.13, 2017, Issue no.3, pp.347-355. (DOI 10.1007/s40092-017-0189-7 Springer)	A.B.Rane, V.K.Sunnapwar
11	"Development of 3 axis CNC milling with an open source controller", Vol.6, Issue 8, Aug 2017. pp 9-15 DOI 10.15623 / IJRET. I.F. 3.935 (Int. J. of Research in Engg. & Tech.)	A.Sonawane, A.B.Rane, D.S.S.S.
12	"Material study for designing portable helmet", IJRET, June 2018, Vol. 07, Issue 05 (Int. J. of Research in Engg. & Tech.) pp 132-136	Kamble, A.B.Rane, S. Korgaonkar
13	Development and Optimization of Vehicle assembly line: A literature review, Journal of Basic and Applied Research International, 2019, 25(1):38-52	A.B.Rane, VKSunnap, Sharma, VSJorapur
14	Arun Bhiva Rane(2019),Enhancement of Productivity by Eliminating Back Chipping. Open Journal of Mechanical Engineering (OJME), 4(2):01-05, DOI: https://doi.org/10.7508/jme.02.2019.01.05	A.B.Rane
15	Arun Rane (2020). Low-cost CNC machine by using Microcontroller. Open Journal of Mechanical Engineering (OJME), 5(1):01-04, DOI: http://doi.org/10.7508/jme.01.2020.01.04	A.B.Rane
16	Arun Rane (2020). Simulation of A Manufacturing System to Improve Business. Advances In Industrial Engineering And Management, 9(2): 27-32. DOI: http://doi.org/10.7508/aiem.02.2020.27.32	A.B.Rane

17	Arun Bhiva Rane (2020). Improvement of Core Manufacturing in Foundry. Frontiers in Manufacturing Engineering, 4(2) : 01-06. DOI: http://doi.org/10.7508/fme.02.2020.01.06	A.B.Rane
18	Arun Rane (2020). Reducing Work in Process Inventory to Improve Business Performance. Advances In Industrial Engineering And Management, 9(2): 33-42. DOI: http://doi.org/10.7508/aiem.02.2020.33.42	A.B.Rane
19	Arun Rane (2020). Value Stream Mapping to improve Process cycle efficiency. Advances In Industrial Engineering And Management, 9(2): 57-65. DOI: http://doi.org/10.7508/aiem.02.2020.57.65	A.B.Rane
20	Arun Rane (2021). Value Stream Mapping and Process Simulation for Lean Manufacturing of Circuit Breaker Line. Advance Management Science, 10(1): 19-29, DOI: http://doi.org/10.7508/ams.01.2021.19.29	A.B.Rane

National Conferences

S.no.	Title	Authors
1	“Interfacing CAD/CAM software to control CNC machines by eliminating NC codes” at National conference on Signal Processing, Communication and Control (SPCCN01-2005), page no. 309-313, July 2-3, 2005.	A.B.Rane D.S.S.Sudhakar V.M.Mohandas
2	“DES based lean manufacturing implementation in Bearing industry” at National conference on Industrial Engineering and Technology Management, NCIETM-2014, October 29-31, 2014. Udyog Pragati journal published by NITIE	A.B.Rane Dr. V.K.Sunnapwar D.S.S.Sudhakar

International Conferences

S.no.	Title	Authors
1	“Open Architecture CNC without NC codes” at International conference on Modeling and Simulation 2006, Kuala Lumpur, Malaysia, April 3-5, 2006.	A.B.Rane D.S.S.S, VMM
2	“Simulation of Manufacturing system” at International conference on Eco-friendly Technology for Sustainable growth ICEFT-2014, page no. 41-46, March 27-28, 2014.	A.B.Rane Dr. V.K.Sunnapwar
3	“Simulation based case study to improve the Performance of an Assembly Line” at 8 th ISDSI International Conference, Pune, India. January 2-4, 2015, published in Trends in Operations Management Perspectives and Challenges, 2016, pp 91-103.	A.B.Rane V.K.Sunnapwar, DSSS
4	“Improving the Performance of Assembly Line: Review with case study” at International Conference on Nascent Technologies in the Engineering Field (2015), 09-10 Jan 2015. Published in IEEEExplore.978-1-4799-7263-0/15	A.B.Rane, S.B.Rane,DSSS V.K.Sunnapwar,
5	“Value Stream Mapping in Lean Manufacturing: A Case Study”, 57 th National Convention of Indian Institution of Industrial Engineering and 3 rd Int. Conference on Industrial Engineering ICIE 2015 at SVNIT, Surat, November 26 - 28, 2015 , Vol.1, pp 736-741.	A.B.Rane Dr. V.K.Sunnapwar Dr. S.M.Khot
6	“Simulation of a Vehicle Assembly Line using ARENA”, 57 th National Convention of Indian Institution of Industrial Engineering and 3 rd Int. Conference on Industrial Engineering ICIE 2015 at SVNIT, Surat, November 26 - 28, 2015, Vol. 2, pp 857-861.	Akshay Sarda, Arun.B.Rane, A.Digalwar, V.K.S.
7	“Optimization of Vehicle assembly line” at 10 th ISDSI International Conference, Nasik, Dec. 28-30, 2016	A.B.Rane, S.M.Khot, V.K.S.
8	“Using GRBL Arduino based controller to run a 2 axis CNC machine” (ICSCET) at Int. conf. on Smart City & Emerging technologies at Universal COE, Vasai (E) on 5-1-2018. Published in IEEEExplore.978-1-5386-1186-9	Sakib, A.B.Rane