

Keshav Nandurkar

1. Current Position: Principal
K. K. Wagh Institute of Engineering Education & Research
Amrutdham, Panchavati, Nashik 422003, India

2. Personal details:

a. Residence: Principal Quarters
K. K. Wagh Institute of Engineering Education & Research
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b. Permanent Address: Gurukripa, Dattanagar
Opp. Dattamandir, Nashik Road 422101, India
Phone: (0253) 2469805
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c. Date of birth: August 11, 1965

d. Marital status: Married (Wife : Archana Daughter: Bhoopali)

e. Nationality: Indian

g. Personal website: www.knnandurkar.com

3. Education & Qualifications:

a. Ph.D. (Mechanical): Indian Institute of Technology Bombay (2002)
Thesis: **Some studies on Virtual Cell Manufacturing Systems**

b. M.E (Production): V. J. Technical Institute, Mumbai (1993)
Dissertation: **Forecasting and Aggregate Planning of Art Material Products**

c. B.E (Production) : Walchand Institute of Technology, Solapur, India
(Passed with First Class Distinction in 1987)

d. Registered Lead Auditor: Quality Management International (October 1999)

4. Experience:

a. Academic experience:

At K. K. Wagh Institute of Engineering Education & Research, Nashik

Principal	03-09-2004 onwards
Professor	01-03-2004 onwards
Head of Department	16-08-2000 to 10-05-2008
Assistant Professor	01-08-1996 to 29-02-2004
Lecturer	18-01-1988 to 31-07-1996

Other responsibilities:

Trustee, K.K.Wagh Education Society, Nashik

Additional Responsibilities handled earlier

- Training & Placement Officer,
- NSS Coordinator of the institute
- Head of Chemical Engineering Department
- Head of Mechanical Engineering Department
- Principal, K.K.Wagh College of Fine Arts, Nashik
- Member of Board of Directors, K.K.Wagh Education Society as Staff Representative
- Secretary, K. K. Wagh Cooperative Consumer Society, Nashik

b. Industry experience:

Trainee Engineer Kirloskar Oil Engines Ltd. (Bearing Division) Ahmednagar
11-09-1987 to 15-01-1988

Trainee Camlin Ltd. (Art Material Division), Mumbai, India
27-06-1991 to 08-08-1991

Trainee Crompton Greaves Ltd. (Switch gear Unit), Nashik, India
01-06-1986 to 10-07-1986

5. Research/ Teaching interests:

- a. Topics of interest**
 - Production /Operations Management
 - Industrial Engineering
 - Quality Management

- b. Courses taught**
 - Work study, Ergonomics and Safety
 - Production Planning and Control
 - UG level**
 - Jigs, Fixtures & Press Tools
 - Production Management
 - Operations Research
 - Industrial Management
 - Technology of Production Systems
 - Materials and Finance Management
 - Financial Management and Cost Control
 - PG level**
 - CAD/ CAM/ FMS
 - CAD/CAM/CIM
 - CIM and Advanced Manufacturing
 - Manufacturing Management
 - Research Methodology

- c. Research studies carried out**
 - Some studies on Virtual cell manufacturing systems
 - Productivity improvement in industries
 - Computer applications in manufacturing industries

6. Awards and recognition:

- Best teacher award given by the institute
- Savitribai Phule Pune University (Formerly University of Pune)
 - Elected as Member Board of Studies (Production & Industrial Engineering) (2000-2005),
 - **Chairman, Board of Studies** (Production & Industrial Engineering) (2005-2010).
 - Re-elected as member BOS (Production & Industrial Engineering) (2010-2015)
 - Nominated as Coordinator BOS (Production & Industrial Engineering) 2015 onwards
 - Appointed as VC nominee for selection committee and Chairman LIC Committee for various institutes under SP Pune University
- Elected as member of BOS and Faculty of Engineering, Sant Gadge Baba Amravati University, Amravati, India for second term
- Students of final year Production Engineering presented technical papers under my guidance and won **first prize** at four national level contests
- Approved as **Post Graduate Teacher** by S.P Pune University and Shivaji University
- Recognized as **PhD guide** by University of Pune, Sant Gadge Baba Amravati University and Swami Ramanand Tirth Marathwada University, Nanded
- Received **certificate of merit** in recognition of research paper presented at ISME 2003
- Was elected as **Joint Secretary** IE (I), Nashik Local Center for consecutive two terms. Currently member of Local Managing Committee
- Received **LIFE TIME ACHIEVEMENT** award (2006) from National and International Compendium, New Delhi for outstanding achievements in the chosen field.
- Selected to be included in 25th edition of biographical directory published by **Marquis Who's Who, USA** published in 2008 for contribution in the field of engineering education.
- Awarded **Jeevan Gaurav Puraskar** (2009) for work done in the field of education from Deshastha Rigvedi Sanstha, Nashik
- Received **Award Certificate** for leadership shown in follow up activities after attending the 2008 Indo US Engineering Faculty Leadership Institute at Infosys Mysore Center
- Awarded "**Shikshak Gaurav Pursar**" by Sarvajanic Vachanalaya, Nashik on occasion of Teachers Day 2011 in Nashik
- Approved as expert member of NBA committee for accreditation of institutes

- Received **Certificate of Appreciation** from Management of the Institute for achieving 100% result in various theory subjects under University of Pune
- Included in the DPE databank of persons who can be considered for appointment as non official Directors on Boards of CPSEs.
- Received **“Engineering Achievement”** award from The Institutions of Engineers (India) Nashik Local Center on the occasion of 47th Engineers Day- 2014
- Received award of **Excellence in Institutional Leadership** during 15th State Annual Students ISTE Convention 2018 Maharashtra-Goa Section on 18th January 2018, Nashik in recognition of outstanding administrative skills
- Received **Best Principal of the year** award from CSI Mumbai Chapter during CSI-Technext 2018 conference held at IIT Bombay during February 10-11, 2018

7. Research and student projects

a. UG Seminars guided: 80

b. UG projects guided: 45

c. ME Projects guided: 08

d. PhD research supervised

Sr. No.	Name of candidate	Title of thesis	Status
1	Damale A. V.	Computer simulation & analysis of critical defects in manual metal arc welding.	Degree awarded
2	Wakchaure V. D	Performance Enhancement of Industries through Analysis of Integrated Manufacturing Practices	Degree awarded by SP Pune University
3	Chandratre K. V	Optimization of Plant layout under dynamic condition using Real Coded Genetic algorithm.	Degree awarded by SP Pune University
4	Gurule N.B	Some Studies on Effect of Powder Mixed Dielectric on Machining Performance of Electric Discharge Machining (EDM) Process for Precision and Stability.	Degree awarded by SP Pune University
5	Relkar A. S	To improve overall Equipment Effectiveness (OEE) in Engineering Industries through Decision Support System (DSS).	Degree awarded by SP Pune University
6	Paraskar S.S	Modeling & Analysis of demand pattern variation for footwear in case of School going Children: An anthropometric approach	In progress
7	Makwana S. C	Selection of appropriate footwear in e-commerce scenario for fit & comfort: An ergonomic approach	In progress

8	Jatti P.V.	Analysis and optimization of productivity in Wire EDM process through different parametric combinations.	In progress
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e. Research projects handled as co-investigator (Sponsored by Pune University)

Sr. No.	Title of project	Principal Investigator	Amount Rs.
1	To develop an online monitoring and controlling system using neural network for turning operation (2009- 2011)	P.S. Kalos	3,00,000
2	Development of Powder Mixed Dielectric Machining (PMEDM) for nano-metric surface finish of hard-to-machine metals. (2012-2014)	N.B.Gurule	3,00,000

8. Professional Association

- Member of **Indian Institution of Production Engineers** (since 1992). Also elected as Secretary of IIPE Nashik Section established in February 2003. Currently member of National Council as Chairman of IIPE, Nashik
- Life Member of **Indian Society for Technical Education** (since 1993). Currently Chairman of ISTE KKWIEER, Nashik Chapter
- Life Member of **Indian Institution of Industrial Engineering** (since 1995)
- Fellow Member of **The Institute of Engineers** (India) since 2006 (Elected as managing committee member and Jt. Secretary for Nashik Local Center, 2003-2011)
- Member of **Operations Research Society of India** since 2003
- Member of **Institute of Industrial Engineers (IIE), Society of Manufacturing Engineers (SME) USA** since 2004
- Nominee member of **Computer Society of India (CSI)** since 2008

9. Expertise in IT

- **Basic Training in Ingres**, conducted by Mastek Ltd. Mumbai during Oct. 7-12, 1996
- **Oracle Training course** organized by IIT Bombay during 28th March to 1st April, 1997
- **Training on Promodel Simulation Software** organized by I.I.T Bombay during September 1997
- **Training in Visual Basic and SQL Server** organized by I.I.T Bombay during April 1999.

- **Training on SSAD and MS ACCESS** during the “e_mosif” course conducted by IIT Bombay, June 2001
- **Training on WITNESS Simulation software** organized by K.K. Wagh Institute of Engineering Education & Research, Nashik during December 10-12, 2007.

10. Participation in professional events:

a. Conferences attended in India

- 18th All India Manufacturing Technology, Design and Research Conference (**AIMTDR**), IIT, Kharagpur, India (Dec. 1998)
- International Conference on Operations management for Global Economy (**POMS-99**), I.I.T Delhi, India (Dec.1999)
- 13th National conference of Indian Society of Mechanical Engineers (**ISME 2003**) organized by IIT Roorkee during December 2003.
- National Conference on Advances in Manufacturing Technology in the era of Globalization (**AMTEG**) organized by PIET, Pune during January 2005.
- First Conference of University teachers “**Innovation 2007**” organized by University of Pune during November 19-20, 2007.
- International Conference on Advances in Mechanical Engineering (ICAME 2009) held at SVNIT Surat during August 3-5, 2009, as **Session Chair**
- Twenty sixth National Convention of Mechanical Engineers organized by IE(I) Maharashtra and Sandip Institute of Technology Nashik during 18-19 Sept. 2010 as **Session Chair**
- International Telecommunication Union **ITU-T Kaleidoscope** Academic Conference (Beyond the Internet?), Pune , India during 13-15, December 2010
- Global Indian Scientist and Technocrats (**GIST**) convention at Garware College , Pune during 26th and 27th December 2010
- International Conference on Industrial Engineering (ICIE 2011) held at SVNIT Surat during November 17-19, 2011, as **Session Chair**
- Educators Conference-Cum-Meditation Retreat on “**Values & spirituality for empowerment of Life**” organized and hosted by Education Wing, Rajyoga Education & Research Foundation and Bramha Kumaris, World HQ, Mount Abu from 31st August to 4th September 2012
- 4th International and 25th All India Manufacturing Technology, Design and Research Conference (**AIMTDR 2012**) organized by Jadhavpur University, Kolkata, India during December 14-16, 2012

- **Convener** of the International Conference on **Manufacturing Excellence (ICMAX 2013)** organised by JJTU, Jhunjhunu, Rajasthan during January 28-20, 2013
- 3rd International Conference on **Transformation in Engineering Education** organized by Indo-US Collaboration for Engineering Education (IUCEE) at College of Engineering, Pune during January 10-12, 2016
- 6th International and 27th All India Manufacturing Technology, Design and Research Conference (**AIMTDR 2016**) organized by College of Engineering, Pune, India during December 16-18, 2016 as **Session Chair**
- **Convener** of the International Conference on Manufacturing Excellence (ICMAX 2017) organized by K.K.Wagh Institute of Engineering Education & Research, Nashik, India during March 3-4, 2017

b. International Conferences attended abroad

- 15th International Conference on Production Research (**ICPR**), University of Limerick, Ireland (August 1999)
- Second International Conference on Manufacturing (**ICM 2002**), Dhaka, Bangladesh, (August 2002)
- Third international conference on **GTCM 2006** held during July 2-5, 2006 at University of Groningen, The Netherlands

c. International visits/ seminars/ workshops attended

- Visited six reputed universities in the USA during Nov.9-22, 2008. This visit was organized for the Principals and Institute heads in India under the Indo-US collaboration for Engineering Education (IUCEE).
- Attended the Global Engineering Deans Council (**GEDC**) Conference at Peking University, Beijing, China during October 20-22, 2011
- Attended International Interactive workshop on “Effective Academia Leadership strategies- a global perspective” at SEGi University, Kota Damansara, Malaysia during December 12th to 14th, 2013.
- Visited five renowned Universities and attended alumni meetings in USA at Washington DC and San Jose during May 13-25, May 2016

d. National Seminars/ Workshop attended

- **ISO 9000/ IS 14000**, seminar organized by K.J. Somaiya College of Engineering, Mumbai during Feb. 8-10, 1993
- **ISO 9000-Revisions**, workshop organized by Nashik Industries and Manufacturers Association (NIMA) on 10th Jan. 1994 at Nashik, India

- **ISO 9000 Quality Management System**, seminar held at K. K. Wagh College of Engineering on 12th March 1994.
- **Advance Manufacturing Technology**, organized by I.I.T Bombay during Dec. 9-21, 1996
- **BPR and Computerization in Manufacturing**, conducted by Aspire Systems Mumbai at I.I.T Bombay on April 22, 1997
- **A roadmap for the management of change in manufacturing operations: the computer simulation approach**, conducted by Aspire Systems at I.I.T Bombay during Sept. 16-17, 1997
- **Sharpening the competitive edge of Indian industry**, one-day seminar conducted by Ms. Pranati Kapadia of Lucent Technologies, USA at I.I.T Bombay on August 21, 1998.
- **Kaizen: Methodology and Implementation successes**, one day seminar conducted by Mr. Masaaki Imai (Chairman, Kaizen Institute, Japan) on September 20, 1999 at Mumbai.
- **ISO 9000 in Technical Educational System** organized by PVG's College of Engineering & Technology, Pune on 6th July 2001
- **Production Engineering Course**, one day workshop organized by VIT, Pune for the revision of Production Engineering syllabus on 7th January 2003.
- **ISO 9001-2000: Internal Auditor Training Course** conducted by V.P Productivity & Quality Services, Nashik during March 2004
- **Kinesthetic for the mentors**, one day faculty development programme organized by MGV's Institute of Management & Research, Nashik on 19th July 2004
- One day workshop on implementation of TE (Production) revised syllabus for subject "**Database and IT for Production Engineering**" and Sinhgad College of Engineering, Pune, India on 30th Dec 2005
- **Future Challenges for Managers**, one day workshop organized by CII Nashik on 5th May 2006 at Hotel Greenview, Nashik, India
- One day training on **Intellectual Property Management Practices** organized by CII and TIDP-IPR team at Hotel Hyatt Regency, Mumbai on 18th November 2006.
- Interactive session on **Excellence in Technical education: Issues and Challenges** organized by Education Promotion Society of India (EPSI) at Hotel Sun-n-Sand, Pune on 3rd December 2006

- One day workshop on **syllabus revision** organized by Vishvakarma Institute of Technology, Pune on 7th September 2007
- Professional Development programme on **Application of QMS and TQM for excellence in Technical Education**, organized by Engineering Staff College of India, Hyderabad during 3-5 December, 2007
- One day workshop on **Micro and Nano manufacturing** organized by College of Engineering Pune on 4th February 2008.
- One week programme on **Curriculum innovation and Quality Assurance** organized by Indo US collaboration for Engineering Education at Global Education Center, Infosys Technologies, Mysore during June 2-6, 2008
- One day workshop on “**Academic Autonomy to Engineering Institutions**” organized by VIT Pune on 17th Feb. 2009
- One day workshop on “**Water Management for effective farming**” organized by CII Nashik on 10th June 2009 at Splendour Hall Nashik
- Three days programme on **Effective teaching; Cooperative Learning; Effective Faculty development, Outcomes based Education** organized by Indo US collaboration for Engineering Education at Global Education Center, Infosys Technologies, Mysore during June 29 to July 1, 2009
- Two days workshop on “**NBA Orientation**” organized by the Association of Managements of Unaided Engineering Colleges (Maharashtra) at PVGs College of Engineering, Pune during July 30-31, 2011
- Attended First **World Summit on Accreditation** (WOSA 2012) organized by National Board of Accreditation (NBA) at Hotel Ashoka, New Delhi, India during March 25-28, 2012
- Two days seminar on “**Maharashtra Meta University and New Education**” organized by Maharashtra Knowledge Corporation Ltd. Pune during August 3-4, 2012
- One day orientation workshop on **Outcome based Accreditation process & parameters for evaluators/ stakeholders** organized by NBA at MIT Pune on 26th October 2012
- One day workshop on **Innovation & IPR** organized by KKWIEER Nashik in association with Vidurneeti Intellectual Capital Engineers, Mumbai on 29th October 2012
- One day workshop on “**Manufacturing Innovation**” organized by CII North Maharashtra Section on 27th August 2014 at NEC, Nashik

- One day **Leadership Conclave** for change leaders in Engineering Education organized by at Mithibai Seminar Hall, Vile Parle, Mumbai on 16th December 2014
- Two days conference on “**Smart Cities: The way India thinks**”, organized by Vignan Bharati at Welingkar Institute of Management, Mumbai during 6-7, June 2015
- One day workshop on “**Graduation Ceremony**” organized by KTHM College, Nashik in Association with S.P. Pune University on 9th January 2016
- One day workshop on “**National Board of Accreditation (NBA)** at GNVS Institute of Management, Mumbai on 11th June 2016
- Half day seminar on “**Skilling tomorrow’s Engineers with Advanced Product Development capabilities**”, organized by Rays Infotech in association with Siemens PLM software and Design Tech Systems Ltd., at R.H.Sapat College of Engineering and Management, Nashik on 3rd August 2016
- One day workshop on **Industry-Academia Conclave** organized by CII Pune at Hotel Four Point Shereton on 17th December 2016
- One day workshop on “**Business Simulation**” conducted by Prof.Ashok Ulal of German Simulation at Hotel Express Inn Nashik on 24th January 2017
- One day workshop on **New University Act 2016** organized by S.P Pune University in Chandraskher Hall of IUCAA, Pune on 12th April 2017
- Attended 2nd edition of Principal’s conclave organized by CII Western Region on “**Building institutions of Excellence**” at We School campus, Matunga, Mumbai on 20th November 2017
- As panel member for one day **MANUFACTURING INNOVATION CONCLAVE** (“Achieving Sustained Competitive Advantage Through Innovation”) organized by CII Nashik on 24 November 2017 at KBT College of Engineering, Nashik
- Attended 7th Higher Education & HR Summit organized by Elets at Hotel Pride Pune on 21st April 2018

e. ISTE courses attended/ coordinated

- **Strategic Planning and Institutional Development** held during June 28-30, 1994 at M.I.T, Pune
- **Induction Training for Teachers**, held during March 10-12, 1995 at K. K. Wagh College of Engineering, Nashik
- **Strategic Planning and Institutional Development**, Coordinated during Jan. 20-22, 1996 at K. K. Wagh College of Engineering, Nashik

- **Advances in Manufacturing Systems and Industrial Automation**, Coordinator of the STTP sponsored by ISTE/AICTE conducted during June 2003.
- **38th ISTE Annual National Convention** at Kalinga Institute of Industrial Technology, Bhubaneswar during December 19-21, 2008.

f. **Other courses organized/ coordinated**

- **Technology of Production Systems**, one day workshop organized for implementation of revised syllabus for B.E (Production) course under University of Pune in January 2001 at K. K. Wagh College of Engineering, Nashik
- **Problem solving with Design of Experiments (DOE)**, one day workshop organized for industry personnel with Symphony Technologies Ltd., Pune on 17th August 2004 at Hotel Emerald Park, Nashik
- **Composite Materials**, one day workshop organized for engineering college teachers and working professionals with sponsorship from University of Pune on 28th February 2005 at K. K. Wagh College of Engineering, Nashik
- Twentieth convention of Production Engineers on “**Man machine interaction with special emphasis on Automobile and ancillary manufacturing**”, organized by IE(I), Nashik local center during Oct 1-2, 2005 at Hotel Emerald Park, Nashik.
- **Supply Chain Management**, one day seminar organized for teachers and working professionals on 17th March 2006 at K.K. Wagh Institute of Engineering Education & Research, Nashik
- Two days workshop for **Detailing of Revised Syllabus** for B.E (Production) course under University of Pune during March 7-8, 2006 at K. K. Wagh Institute of Engineering Education & Research, Nashik
- One day workshop for **Detailing of Revised Syllabus** for M.E (Production) course under University of Pune on November 2, 2007 at K. K. Wagh Institute of Engineering Education & Research, Nashik
- One day seminar on **Simulation techniques in manufacturing and Service Industry** sponsored by University of Pune on January 12, 2008 at K. K. Wagh Institute of Engineering Education & Research, Nashik
- **Workmen training programme** for the workers of Mahindra & Mahindra Ltd. Igatpuri plant during January - July 2008 at the factory
- Two days faculty development programme on **Effective teaching through curriculum innovation** for staff members of Engineering colleges at K. K. Wagh Institute of Engineering Education & Research, Nashik during June 8-9, 2009

- Convener of two days Maharashtra Vijnana Sammelan on “**Shaswat Urja**” held at Bhonsala Military College Campus, Nashik during February 25-26, 2012
- Convener of two days seminar on “**Simulation modeling in Manufacturing & service industry**” organized by K. K. Wagh Institute of Engineering Education & Research, Nashik during March 1-2, 2013
- Convener of one day **syllabus revision workshop** for TE (Production) 2015 course organized by K. K. Wagh Institute of Engineering Education & Research, Nashik on 10th October, 2016

11. Publications:

a. International/National journals:

1. Subash Babu, A., **Nandurkar K. N** and Austin Thomas “Development of Virtual Cellular Manufacturing System for SME's” published in Special issue of Journal of Logistics Information Management, Vol. 13, No. 4, 2000, pp. 228-242
2. Pramod. K Shahabadkar, **K.N.Nandurkar** and P.K. Shahabadkar, “Changing the nature of college teaching through cooperative learning-A case study”, The journal of Engineering Education, Vol. XVIII, No.4, April 2005, pp. 56-63
3. Pramod. K Shahabadkar, **K.N.Nandurkar** and P.K. Shahabadkar, “Cooperative learning experiment for Master Student Skills-A case study”, Indian journal of Technical Education, Vol. 29, No.3, July-September 2006, pp. 71-76
4. Pramod. K Shahabadkar, **K. N. Nandurkar** and P.K. Shahabadkar, “Computer aided teaching of Industrial Management subject- A case study”, The Journal of Engineering Education, Vol. No. XX, No.1, July 2006, pp. 31-37
5. V.D. Wakchaure, **K.N.Nandurkar** and S.P.Kallurkar, “A survey of JIT, SCM, TQM, TPM and ERP in manufacturing firms in India”, International e-journal of Logistics and Supply Chain Management, Vol.2, No.1, Dec. 2008
6. **K. N. Nandurkar** and Sushma Kulkarni, “Dramatic results for IUCEE in private colleges of state of Maharashtra in the Western Region of India”, The Journal of Engineering Education, Vol. XXIII, No.3, January 2010, pp.45-49
7. P.S.Kalos, **K.N.Nandurkar**, B.B.Ahuja and L.G.Navale, “Analysis of geometrical tolerances in straight turning using Response Surface Method and Monte Carlo Simulation”, International Journal of Manufacturing Technology and Industrial Engineering (IJMTIE), 1(1), June 2010, pp.45-55
8. V.D. Wakchaure, **K.N. Nandurkar** and S.P. Kallurkar, “Enhancing manufacturing excellence through integrated manufacturing programme” Int. J. Integrated Supply Management, Vol. 5, No. 4, 2010, pp.376-400

9. K.V.Chandratre and **K.N.Nandurkar**, “ A review: Dynamic plant layout optimisation”, International Journal of Emerging Technologies and applications in engineering, technology and Sciences (IJ-ETA-ETS), Vol.4, Issue 1, Jan’11-June’11, pp.43-47
- 10.K.V.Chandratre and **K.N.Nandurkar**, “ Applying Genetic algorithm to Dynamic plant layout problem”, International Journal of Applied Operational Research, Vol.1, Issue 3, Winter 2011, pp.1-9
- 11.Bhauasaheb Kharde, Gahininath J.Vikhe Patil and **Keshav Nandurkar**, “Simplification of Economic Production Quantity model by equivalent holding cost”, International Journal of Industrial Engineering Research and Development, Volume 3, Issue 1, January-June (2012), pp.21-29
- 12.Bhauasaheb Kharde, Gahininath J.Vikhe Patil and **Keshav Nandurkar**, “EOQ model for planned shortages by using equivalent holding and shortage cost”, International Journal of Industrial Engineering Research and Development, Volume 3, Issue 1, January-June (2012), pp.43-57
- 13.Aarti More and **Keshav Nandurkar**, “Social networking sites-Effective medium to reach the youth for marketing the products”, Journal of Management Development & Research, Vol.II, Issue I, June 2012, pp. 49-57.
- 14.A.V. Damale and **K. N. Nandurkar**, “Application of value stream mapping in an Indian Automotive industry: A case study”, Industrial Engineering Journal, Volume V, Issue No.7, July 2012, pp.11-16.
- 15.Gurule N.B and **Nandurkar K.N.**, “Effect of tool rotation on material removal rate during powder mixed Electric Discharge Machining of Die Steel”, International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 8, August 2012, pp.328-332
- 16.A.V. Damale and **K.N.Nandurkar**, “Thermo-mechanical Finite Element analysis and experimental validation of weld induced angular distortion in MMAW butt welded plates”, International Journal of Engineering Research & Technology (IJERT), Vol. 1, Issue 6, August 2012, pp. 1-7
- 17.P.G.Kochure and **K.N.Nandurkar**, “Mathematical modelling for selection of process parameters in induction hardening of EN8D steel”, IOSR Journal of Mechanical and Civil Engineering (IOSRJMCE) Vol.1, Issue 2 (July-August 2012), pp.28-32
- 18.P.G.Kochure and **K.N.Nandurkar**, “Regression model fitting for process parameters in induction hardening of EN8D steel”, Journal of Mechatronics, Vol.1, No.1,2012, pp.1-5
- 19.P.G.Kochure and **K.N.Nandurkar**, “Taguchi methods and ANOVA: An approach for selection of process parameters in induction hardening of EN8D steel”, International Journal of Advance Research in Science, Engineering and Technology, Vol.1, Issue 2, pp.22-27

- 20.S.P.Kerhalkar and **K.N.Nandurkar**, "Development of VSM implementation procedure for prefabricaton shop through case study approach", International Journal of Advanced Research in Science, Engineering and Technology, (June 2012), Vol. 1, Issue 2, pp.28-35
- 21.K.V. Chandratre and **K.N. Nandurkar**, "Optimization of Dynamic Plant Layout: A Review", Journal of Research, SWAYAMPRAKASH, Volume 4, (July 2012), pp. 33-40.
- 22.A.V. Damale and **K.N.Nandurkar**, "3 D coupled FE analysis and experimental validation of weld restrained welding to control angular distortion", Journal of The Institution of Engineers (India): Series C (October-December 2012), Vol.93, No.4, pp. 365-371
- 23.A.V. Damale and **K.N.Nandurkar**, "Modelling of angular distortion in MMAW butt welds using regression model", International Journal of Scientific Computing, Vol.6, Number 2 (July-December 2012), pp. 199-206.
- 24.K.V.Chandratre and **K.N. Nandurkar**, "Application of ACO to dynamic plant layout", Industrial Engineering journal Vol. VI, Issue No.8 (September 2013), pp. 39-42
- 25.Adinath Damale and **Keshav Nandurkar**, "Numerical simulation of side heating for controlling angular distortion in multipass MMAW butt welded plated, Sadhana, April 2015, Vol. 40, Issue 2, pp. 487-502
- 26.K.V. Chandratre, P.J. Pawar and **K.N. Nandurkar**. "Dynamic Machine Layout for Press Tool Operations Using Real Coded Genetic Algorithm." International Journal of Metaheuristics, Vol.5, No.6, 2016, pp. 91-114.
- 27.**K.N.Nandurkar** and P.J.Pawar, " Manufacturing excellence for Sustainability: Indian scenario" published in Annual Technical Volume of Production Engineering Division Board of IE (I), Volume2, 2017, pp. 27-34

b. Papers presented at National/ International Conferences

1. **Nandurkar K.N** and Dasgupta, B., "Role of Institute Industry interaction for Career Development of Engineers", presented at State level Symposium on Human Resource Management by Zero Mismatch, organized by W.I.T. Solapur, during August 26-27, 1995
2. **Nandurkar K. N** and Subash Babu, A., "Design and Development of adaptable cellular manufacturing systems" Proceedings of the 18th AIMTDR Conference, I.I.T Kharagpur, India, Dec.1998 pp.538-544
3. **Nandurkar K. N**, Austin Thomas and Subash Babu, A., "Bi-pronged approach for cluster analysis(BIACA): A cell formation algorithm" Proceedings of the 15th ICPR Conference, Ireland, Aug.1999, pp. 1275-1278

4. **Nandurkar K. N**, Saleeshya, P.G, N. Rangaraj and Subash Babu, A. "GT in Indian engineering industries: an investigative study" Proceedings of the 15th ICPR Conference, Ireland, Aug. 1999, pp.1279-1284
5. **Nandurkar K. N**, Rajagopal, S and Subash Babu, A., "Development and application of new algorithm called ALTROC for CMS" Proceedings of the International Conference on Operations management for Global Economy (POMS-99), I.I.T Delhi, India, Dec.1999
6. **Nandurkar K. N** and Subash Babu, A. "Flexible approach to designing and operating Cellular Manufacturing Systems" Proceedings of the FIAM 2000 Conference, Vol.II, Aug. 2000, pp.
7. P. K. Shahabadkar and **Nandurkar K.N.**, " Enterprise application integration for supply chain management" Proceedings of the 1st International Conference on Logistics and Supply Chain Management (ILSCM-2001), PSG College of Technology, Coimbatore, India, August 2001, pp.87-92
8. **Nandurkar K.N.** and Subash Babu, A., " A new algorithm for cell formation" Proceedings of Symposium on Manufacturing Excellence (SYMAX), I.I.T Madras, India, January 2002, pp.179-180
9. Relkar, A. S., **Nandurkar, K. N.** and Barve, V.D, "Education in 21st Century", presented at workshop organized by National Technical Manpower Information Center at Nagpur, India, January 2002.
10. **K. N. Nandurkar** and T.D. Nehete, "Aggregate Production Planning: A goal programming approach", Proceedings of the International conference on Manufacturing (ICM 2002), Dhaka, Bangladesh, August 2002, Vol.2, pp.422-431
11. P.K. Shahabadkar, **K. N. Nandurkar** and P. Shahabadkar, "Supply chain management and its integration", Proceedings of the International conference on Manufacturing (ICM 2002), Dhaka, Bangladesh, August 2002, Vol. 2, pp.249-258
12. **K. N. Nandurkar**, A.S. Relkar and V.K. Khare, "Total Productive Maintenance (TPM): A tool for productivity improvement", presented at the 20th AIMTDR Conference, BITS, Ranchi, Dec. 2002
13. **K.N. Nandurkar**, A.S. Relkar and Kisor Ray, "Application of Work Measurement Techniques for Productivity Improvement" accepted for presentation at the 7th DSI International Conference, Shanghai, China, July 2003.
14. S.A.Patil and **K.N.Nandurkar**, " Process planning for shape deposition in Manufacturing" presented at National Conference at Adhiyamaan Engineering College, Hosur, TN during September 2003
15. P.S. Bodke and **K.N.Nandurkar**, "Conservation of digital resources" presented at National Convention on library and Information Networking (NACLIN 2003) held at Jadavpur University, Kolkata during October 2003.

- 16.S.A.Patil, P.B. Kushare and **K.N. Nandurkar**, “Robot assisted shape deposition manufacturing”, presented at Conference on advances and recent trends in Manufacturing (CARTM-2003), Kalyani Government Engineering College, Kalyani, WB, Nov., 2003
- 17.**K.N. Nandurkar**, “Coding and classification of cell formation problems in CMS” presented at ISME 2003 conference organized by IIT Roorkee during December 2003. (Awarded certificate of merit for best paper of the session)
- 18.S.A.Patil, **K.N. Nandurkar** and P. B. Kushare, “Lean manufacturing- Go by lean”, Proceedings of National seminar RAME 2004, K.K.Wagh College of Engineering, Nashik, Jan. 2004, pp. MT-85- MT-90.
- 19.P.S. Saji, P. K. Shahabadkar and **K.N. Nandurkar**, “Development of computerized inventory management system for small-scale industries” National conference on Advances in Manufacturing Technology in the era of globalization (AMTEG 2005), PIET, Pune, Jan. 2005.
- 20.S.A. Patil, P.S.Kalos and **K.N. Nandurkar**, “New methods to produce quality automotive body parts”, Proceedings of 20th National convention of Production Engineers, Nashik, October 1-2, 2005, pp.8-18.
- 21.**K.N. Nandurkar** and P.V. Jatti, “Improving performance of SCM through effective man-machine interaction”, Proceedings of 20th National convention of Production Engineers, Nashik, October 1-2, 2005, pp.72-80.
- 22.Pawar P.J, Gangurde S.R and **K.N. Nandurkar**, “An algorithm for optimization of cutting stock problem with irregular shapes” presented at International Conference on Operations Research Applications in Infrastructure Development in conjunction with Annual Convention of ORSI, December 27-29, 2005
- 23.**K.N. Nandurkar** and A. Subash Babu, “Effect of operating policies in a virtual cell manufacturing system”, Proceedings of third international conference on GTCM 2006 held during July 2-5, 2006 at University of Groningen, The Netherlands, pp: 277-286.
- 24.Gurule N. B., Shahabadkar P. K. & **Nandurkar K. N.**, “Experimental Investigations on EDM Using Taguchi Technique for Optimization of Process Parameters”, presented at First International & 22nd All India Manufacturing Technology Design & Research Conference (AIMTDR), 21st –23rd December 2006, IIT Roorkee
- 25.N.B.Gurule, **K.N. Nandurkar** and M. Sdaiah, “Nano machining techniques for finishing of Hard-to-Machine materials” presented at the National Conference on Recent Developments and Futuristic trends in Mechanical Engineering held at Shriram College of Engineering & Management, Gwalior during April 28-29, 2007.
- 26.P.S.Kalos, **K.N. Nandurkar** and L.G. Navale, “Control of Roundness on Turned Cylindrical Bars using Artificial Neural Network” presented at the IEEM 2007 conference held at Singapore in December 2007

27. Relkar, A. S. and **Nandurkar, K. N.**, "Six sigma: A methodology for business excellence" presented at National level conference organized by D.Y.Patil College of Engineering, Pune during Dec. 2007.
28. **K.N. Nandurkar** and A. Subash Babu, "Robustness of cell performance in CMS- A Simulation study" Proceedings of the third world conference of Production & Operations Management, held in August 2008 at Tokyo, Japan.
29. V.S.Kalmani, P.S.Kalos and **K.N.Nandurkar**, "Green manufacturing and roundness error in En8 alloy steel turned bars", Proceedings of National Conference on Green Technology organized by Government Polytechnic, Nashik, Nov. 2008, pp.520-528
30. Gurule N.B and **Nandurkar K.N.**, "Current developments in Powder Mixed Electrical Discharge Machining (PMEDM) process for precision, productivity and stability: A review" Proceedings of the International Conference on 'Advances in Mechanical Engineering' organized by SVNIT Surat during December 15-17, 2008, pp. 748-753.
31. A.V. Damle, **K.N. Nandurkar**, J.H. Mistry and D.P. Khadse, "Implementation of value stream mapping process: A case study" Proceedings of the International Conference on 'Advances in Mechanical Engineering' organized by SVNIT Surat during December 15-17, 2008, pp. 853-857.
32. Wakchaure V. D., **Dr. Nandurkar K. N.** and Dr. Kallurkar S. P, "Comparative Study of National Quality Awards", National Conference on World Class Manufacturing, Amrutvahini College of Engineering, Sangamner, India during 26-27 Feb., 2009.
33. P.S. Kalos, **K.N. Nandurkar**, B.B. Ahuja and L.G. Navale, "Analysis of Roundness in straight turning using Response Surface Method " proceedings of International Conference on Advances in Mechanical Engineering (ICAME 2009) held at SVNIT Surat during August 3-5, 2009, pp. 949-953
34. Wakchaure V. D., **Dr. Nandurkar K. N.** and Dr. Kallurkar S. P, "Rationales for synergistic implementation of JIT, TQM, TPM, SCM and ERP", 8th Triennial Conference of Association of Asia Pacific Operational Research Societies, 6-9 Dec, 2009, Jaipur India.
35. Wakchaure V. D., Anil Kumar Yadav, **Dr. Nandurkar K. N.** and Dr. Kallurkar S. P, "Revitalizing the Indian Manufacturing Inc. for enhancing Global Competitiveness through Integrated Manufacturing Program", Proceedings of 24th Indian Engineering Congress, 10-13 December, 2009, NITK, Suratkal.
36. Vishnu Wakchaure, **Keshav Nandurkar** and Shrikant Kallurkar, "Exploring the complimentary application of JIT, TQM, TPM, SCM and ERP paradigms for improving manufacturing system performance", Proceedings of the International Conference on Advances in Industrial Engineering Applications (ICAIEA 2010) organized by Department of Industrial Engineering, Anna University Chennai, India during January 6-8, 2010, pp.56

37. **Keshav Nandurkar** and Ashwini Kulkarni, "Innovative teaching methods for teaching of programming languages", presented at International Conference on Reforms in Technical education (ICORTE 2010), Hyderabad, India, August 27-28, 2010.
38. Gurule N. B. and **Nandurkar K. N.**, "Development of Powder Mixed Electric Discharge Machining (PMEDM) System for hard-to-machine metals" Innovation-2010 conference for Pune University College Teachers organized by PDVVP College of Engineering, Ahmednagar, India during Oct. 27-28, 2010
39. **K.N. Nandurkar** and P.S.Kalos, "Comparison of Artificial Neural Network algorithms for Roundness Prediction on Turned Cylindrical Bars", presented at National Conference on Intelligent System, organized by B.N. Bandodkar College of Science, Thane during November 26-27, 2010.
40. Vishnu Wakchaure, **Keshav Nandurkar** and Shrikant Kallurkar, "Exploring the synergistic relationship of JIT, TQM, TPM, SCM and ERP: A survey", Proceedings of the 3rd International and 24th AIMTDR Conference 2010 organized by Andhra University College of Engineering, Visakhapatnam, Andhra Pradesh, India during December 13-15, 2010, pp.689-694
41. Vishnu Wakchaure, **Keshav Nandurkar** and Shrikant Kallurkar, "Simulation based comparison of the effect of JIT, TQM, TPM and SCM paradigms on manufacturing system performance" presented at XIV Annual International Conference of the Society of Operations Management, SOM 2010 organized by NITIE Mumbai, India during December 17-19, 2010
42. Vishnu Wakchaure, **Keshav Nandurkar** and Shrikant Kallurkar, "Development and Validation of Integrated Manufacturing Practices Model", Tenth International Conference on Operations and Quantitative Management (ICOQM-11), organized by INFOMS at SIOM, Nashik, June 28-30, 2011
43. **K.N. Nandurkar**, B.B. Ahuja, L.G. Navale and P.S. Kalos, "Analysis of Roundness error on En8 steel using ANOVA" proceedings of National Conference on Recent Developments in Mechanical Engineering held at MES College of Engineering, Pune during July 4-5, 2011, pp. 949-953 (received best paper award)
44. V.D.Wakchaure, **K.N. Nandurkar** and S.P. Kallurkar, "Relationship between implementation of TQM, JIT, TPM and SCM and manufacturing performance" presented at International Conference on Industrial Engineering (ICIE-2011) organized by SVNIT Surat, India during November 17-19, 2011
45. K.V. Chandratre and **K.N. Nandurkar**, " Solving Dynamic plant layout problem with genetic algorithm", presented at International Conference on Industrial Engineering (ICIE-2011) organized by SVNIT Surat, India during November 17-19, 2011
46. Gurule N.B and **K.N. Nandurkar**, "Experimental investigation of Powder Mixed Electric Discharge Machining for Die steel machinability with rotary tool", presented

at International Conference on precision, Meso, Micro and Nano Engineering at College of Engineering, Pune, India during December 10-11, 2011.

47. Kharde B.R, Vikhe Patil G. and **Nandurkar K.**, “Simplification of ELS inventory model for planned shortages by using equivalent holding cost”, Proceedings of International Conference on Advances in Supply Chain and Manufacturing Management (ICASCMM) organized by IIT Kharagpur during December 16-18, 2011
48. Kharde B.R, Vikhe Patil G. and **Nandurkar K.**, “EOQ model for planned shortages using equivalent holding cost”, Proceedings of Ninth AIMS International Conference on Management (ICAIMS) organized by FLAME, Pune during January 1-4, 2012
49. A.S. Relkar and **Dr. K.N. Nandurkar** “Optimizing and Analysing Overall Equipment Effectiveness (OEE) through Design of Experiments (DOE) ”, presented at International Conference on Modeling, Optimization & Computing (ICMOC) at NICHE Nagarcoil, Tamil-Nadu, India, during April, 10-11, 2012.
50. A.S. Relkar and **K.N. Nandurkar** “Optimizing Overall Equipment Effectiveness through Simulation Analysis” presented at 2nd Annual International Conference on Operations Research and Statistics (ORS-12) organized by Global Science & Technology Forum (GSTF) at Bali, Indonesia during May 7-8, 2012.
51. Pramod.K.Shahababkar, Ashwini Kulkarni and **K.N. Nandurkar**, “Soft skills training through cooperative learning-A case study”, Poster Presentation at International Symposium on Best Practices in Teaching & Learning, organized by Al Musanna College of Technology, Sultanate of Oman on 7th May 2012
52. K.V. Chandratre and **K.N. Nandurkar** “Optimization of Dynamic Plant Layout under Dynamic conditions using hybrid algorithm” Presented at the Pre- Convention Research Consortium on 29th Oct'12 at Bangalore
53. Gurule N. B. and **Nandurkar K. N.**, “Realizing potential of Powder Mixed Electric Discharge Machining with rotary tool for Die steel” Proceedings of the 4th International and 25th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2012) organized by Jadhavpur University, Kolkata, India during December 14-16, 2012, pp. 473-479.
54. Wakchaure V.D, **Nandurkar K.N.** and Kallurkar S.P, “Effect of joint implementation of JIT, TQM, TPM and SCM and manufacturing performance: A simulation study” Proceedings of the 4th International and 25th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2012) organized by Jadhavpur University, Kolkata, India during December 14-16, 2012, pp. 1272-1278.
55. A.V. Damale and **K.N.Nandurkar**, “Modelling of angular distortion in MMAW butt welds using regression model”, Presented at International Conference on “Innovative technologies in Engineering & Sciences” (ITES-2012) at V.V.P Engineering College, Rajkot, India during 22-23, December 2012
56. A.V. Damale and **K.N.Nandurkar**, “Effect analysis of clamping pressure on angular distortion of butt welds”, Presented at International Conference on “Emerging

trends in Mechanical Engineering” (ICETME-2013) at G.H. Patel College of Engineering & Technology, Vallabh Vidyanagar, India during 4-5th January 2013.

57. K.V.Chandratre and **K.N. Nandurkar**, “Application of ACO to dynamic plant layout”, Proceedings of the International Conference on Manufacturing Excellence (ICMAX 2013) organised by JJTU, Jhunjhunu, Rajasthan, India during January 28-20, 2013, pp. 20-25
58. **K. N. Nandurkar** and A.S.Kamble, “Application of curriculum innovation for Production Management subject”, presented at the International Conference on Transformations in Engineering Education (ICTIEE- 2014) organized by BVB College of Engineering & Technology, Hubli during 16th to 18th January 2014
59. P.K.Shahabadkar, **K.N.Nandurkar** and P.S.Vispute, “Soft skill training through Cooperative learning: A case study”, presented at the International Conference on Transformations in Engineering Education (ICTIEE- 2014) organized by BVB College of Engineering & Technology, Hubli during 16th to 18th January 2014
60. V.D. Wakchaure, **Dr. K.N. Nandurkar**, and Dr. S.P. Kallurkar, ‘Relationship between Implementation of TQM, JIT, TPM and SCM and Manufacturing Performance: Empirical Evidences from Indian Context’, ASME 2014 Manufacturing Science and Engineering Conference (MSEC2014), June 9-13, 2014, Detroit, Michigan, USA
61. **K. N. Nandurkar**, V. D. Wakchaure, S. P. Kallurkar ‘The simulation-based comparison of joint implementation of JIT, TQM, TPM and SCM paradigms’, 42nd North American Manufacturing Research Conference, June 9-13, 2014, Detroit, Michigan, USA
62. V. D. Wakchaure, **K. N. Nandurkar**, S. P. Kallurkar and Gadalla M. A., ‘A conceptual framework for effective implementation of integrated manufacturing practices’, ASME 2015 Manufacturing Science and Engineering Conference (MSEC2015), June 8-12, 2015, Charlotte, North Carolina, USA.
63. K.V. Chandratre, P.J. Pawar, and **K.N. Nandurkar**. “Application of Real Coded Genetic Algorithm to Dynamic Layout Benchmark Problem.” IEEE Conference at Hyderabad, Dec. 2015.
64. **K.N.Nandurkar** and A.R.Shinde, “Experimental investigation of Ring gear hobbing for productivity improvement using design of experiment”, National Conference on Advances in Design and Thermal Engineering (NCADTE-2016), G.H.Raisoni College of Engineering and Management, Ahmednagar, India
65. **Nandurkar K.N** and M. K. Venkatesh, “Application of Optimizing techniques in Indian auto ancillary industries for SCM”, Proceedings of 31st National Convention of Production Engineering on India Emerging as a Manufacturing hub of the world by 2020-Prospects and Pathway, The Institution of Engineers (I), Karnataka State Centre, Bangaluru (May 2016)

66. Gurule, N.B and **Nandurkar, K.N**, “Multi Response Optimization of Powder Mixed EDM process parameters by Grey Relational Analysis, Proceedings of the International Conference on Modern Era Research in Mechanical Engineering (MERME-16), September 28-30, 2016, RIT, Islampur, India, pp. 439-447
67. Shinde A.R and **Nandurkar K.N**,” Multi Response Optimization of Ring gear Hobbing Parameters by Taguchi Method and Grey Relational Analysis, Proceedings of the International Conference on Modern Era Research in Mechanical Engineering (MERME-16), September 28-30, 2016, RIT, Islampur, India, pp. 162-167
68. Vishnu Wakchaure, **Keshav Nandurkar** and Shrikant Kallurkar, ‘Structural Equation Modelling of a Conjoint Implementation of JIT, TQM, TPM, SCM and ERP’ Proceedings of the 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at College of Engineering., Pune, Maharashtra, INDIA
69. Gurule N.B, **Nandurkar K.N**, and Manohar Shete, “Performance improvement in sinking Electric Discharge machining using powder mixed dielectric, published in the Proceedings of The International Conference on Manufacturing Excellence (IMAX 2017), organized by KKWIEER, Nashik, India during March 3-4, 2017, pp. 151-157
70. A.S. Relkar, **K.N. Nandurkar**, P.J. Pawar, “Predicting production quantity by integrating Monte Carlo Simulation and Regression analysis”, published in the Proceedings of The International Conference on Manufacturing Excellence (IMAX 2017), organized by KKWIEER, Nashik, India during March 3-4, 2017, pp. 498-503.
71. Jitendra Chavan, **Nandurkar K.N**, and Gurule, N.B, “Multi-response optimization of Powder Mixed Electric Discharge machining of Cobalt bonded Tungsten Carbide using Grey Relational analysis”, published in the Proceedings of The International Conference on Manufacturing Excellence (IMAX 2017), organized by KKWIEER, Nashik, India during March 3-4, 2017, pp. 537-542
72. Kalos P.S, Kalmani V.S, **Nandurkar K.N**, “Minimisation of Geometrical errors in CNC turning process using ROVOP method” published in the Proceedings of The International Conference on Manufacturing Excellence (IMAX 2017), organized by KKWIEER, Nashik, India during March 3-4, 2017, pp. 593-599
73. Charudatta Mhasde and **K.N. Nandurkar**, “ Proposed model of Entrepreneurship Development Cell at KKWIEER, Nashik” presented at 48th Annual meeting of DSI: Innovative decision making-Research to Practice, Washington Hilton, Washington DC, USA during November 18-20, 2017

12. Invited lectures delivered

- **New perspectives in the strategic planning**, during course on Strategic Planning and Institutional Development organized at K. K. Wagh College of Engineering, Nasik (Jan. 1996)

- **Industrial Engineering Techniques**, during the course for Naval officers organized at INS Karanjia (July 1999)
- **Virtual Cellular Manufacturing Systems**, during CEP course on Agile Manufacturing Systems organized by I.I.T Bombay (Jan. 2000)
- **Kaizen through Group Technology**, during ISTE Short term course on Kaizen at K.J. Somiya Polytechnic, Mumbai (December, 2002)
- **Cellular Manufacturing Systems**, during ISTE Short term course on “Advances in Manufacturing systems and Industrial Automation” at K.K. Wagh College of Engineering, Nashik (June 2003)
- **Virtual Cellular Manufacturing Systems**, during CEP course on “Production Management” organized by IIT Bombay during October 9-11, 2004.
- **Project Management**, during training programme for engineers of Enercon (India) Ltd., Daman, July 2005.
- **Cellular Manufacturing systems**, Expert Lecture organized by Mechanical Engineering Students Association of College of Engineering, Ahmednagar on 23rd March 2006 at Ahmednagar, India
- **Group Technology & CMS**, Expert Lecture organized by Production Engineering Students Association of A.V. College of Engineering, Sangamner, India on 30th September 2006
- **Cellular Manufacturing systems & Value Stream mapping**, during CEP course on “Lean Manufacturing” organized by IIT Bombay during October 11-15, 2006.
- **Group Technology** during CEP course on “Production Management” organized by IIT Bombay during 24-28, April, 2007
- **Introduction to GT/CMS and GT in Indian context** at CEP course on “Production Management” organized by IIT Bombay during 4-8, August, 2007
- **Advanced Gear Materials** during two days workshop on “Advanced Gear Manufacturing” organized by A.V. College of Engineering, Sangamner on 25th August 2007
- **Six Sigma: A methodology for business excellence**, during one day workshop on “Recent trends in Inspection & Quality Control” organized by P.D.V.V.P College of Engineering, Ahmednagar on 18th March 2008.
- **Group Technology**, during the CEP programme on Production Management organized by IIT Bombay during 16-20 April 2008.

- **Application of optimization techniques in design of CMS**, during one week AICTE sponsored STTP organized by SVNIT, Surat, Gujarat, India during June 16-20, 2008.
- **Glimpses of US tour** at Marathwada Mitra Mandal's College of Engineering, Pune on 28th January 2009.
- **World class manufacturing** during two days national conference on 'World Class Manufacturing' organized by A.V. College of Engineering, Sangamner Feb. 26th and 27th, 2009.
- **World class manufacturing: An overview** during one day seminar on 'World Class Manufacturing' organized by The Institution of Engineers (India) Maharashtra State Center at Mumbai on April 19th, 2009.
- **Learning Factory** during two days Faculty Development programme on 'Effective Teaching through Curriculum innovation' organized at K. K. Wagh Institute of Engineering Education & Research, Nashik during June 8-9, 2009
- **Learning Factory** during the One day workshop on "Effective Teaching" organized by Sir Visvesvaraya Memorial Engineering College, Chincholi on 6th October 2009
- **Learning factory approach to engineering education** during two days workshop on "Best Practices in Engineering Education for Total Quality Management" organized by MET's Institute of Engineering, Nashik during February 5 and 6th, 2010
- **Technical Education: Current status, Issues and Challenges** during two days Conference on "Retrospection on fifty years of Maharashtra State" organized by Yasvantrao Chavan Maharashtra Open University, Nashik during March 13-14, 2010.
- **Effective Teaching** workshop conducted during two IUCEE FLI 2010 programmes conducted at VIT Pune during June 23-24, 2010 and at Jaypee University of Engineering & Technology, Guna (MP) during July 5-6, 2010
- **Seven habits of Effective people** during the Workmen Training programme for Mahindra & Mahindra, Nashik organized by KKWIEER Nashik on 19th November 2010.
- **How to teach Robotics effectively?** During the one week (20th to 24th December 2010) training programme on Robotics organized by Sandip Polytechnic Nashik, India
- **Effective teaching** During the one week (6th to 11th February 2011) training programme on Non Conventional Manufacturing organized by Guru Govindsingh Polytechnic Nashik, India

- **Quality Control Techniques: A review** during one day programme on Quality Control organized by Pravara Rural Engineering College, Loni on 23rd February 2011
- **Innovative Teaching Learning Methods** during one week (27th June to 1st July 2011) Faculty Development Program on Effective Teaching-Outcome based learning in Engineering Education by Rajarambapu Institute of Technology, Sakhrale, India
- **Effective teaching** for staff members of K.V.N.Naik Institute of Engineering and Research, Nashik on 12th October 2011
- **Effective teaching: some issues** during one day workshop on Effective teaching-learning methods organized by Sandip Polytechnic, Nashik on 10th December 2011.
- **How to prepare for accreditation** during one week orientation programme organized by Matoshri Education Society's College of Engineering, Nashik on December 20, 2011
- **Application of TQM tools in Engineering Education** during one day seminar on TQM in Engineering Education, organized by Engineering Education Foundation-Nashik Consortium at KKWIEER, Nashik on 21st April 2012.
- **Preparing for NBA**, during half day seminar on NBA preparation at Modern Education Society's College of Engineering, Pune on 13th June 2012
- **Virtual Cell Manufacturing Systems** during one week content updating programme on Advances in Manufacturing processes, Systems and Materials (AMPSM) organized by Government Polytechnic, Nashik on 24th December 2012
- **Application of Optimization Techniques in Cell Formation problem**, during one week programme on Optimization Techniques organized by SVNIT Surat during 7-11, January 2013.
- Invited talk on **World Class Manufacturing** during the International Conference on Manufacturing Excellence (ICMAX 2013) organised by JJTU, Jhunjhunu, Rajasthan during January 28-20, 2013
- **Simulation of Manufacturing Systems** during two days seminar on "Simulation modeling in Manufacturing & service industry" organized by K. K. Wagh Institute of Engineering Education & Research, Nashik during March 1-2, 2013
- **Research proposals** during two week State level Workshop on "Research Methodology" organized by K. K. Wagh Institute of Engineering Education & Research, Nashik during August 23-24, 2013

- Expert lecture through VLC on **Production Systems** and **Modern Trends** for third year diploma students of Maharashtra State organized by Maharashtra State Board of Technical Education (MSBTE) on 28th January 2014
- Expert lecture on “**Optimisation in Manufacturing**” during the two day seminar on “Advance Statistical Techniques for Tool & Die Design” organized by KKWIEER Nashik on 13th September 2014
- Expert lecture on “**Manufacturing Competitiveness**” during two days seminar on “Innovations in Design and manufacturing” organized by AV College of Engineering, Sangamner on 19th September 2014
- Session Chairman for the **Session on Technical Education** during the National Annual Convention of Maharashtra Council of Educational Administration & Management in collaboration with MSG Foundation on “Quality Higher Education: Challenges and emerging trends” at Bytco College, Nashik Road on 31st October 2014
- Expert lecture on **Statistical Quality Control** during one week content updating program on Metrology & Quality Control organized by K.K.Wagh Polytechnic, Chandori, Dist. Nashik, India on 9th December 2014
- Resource person for the one day workshop on “**Changing scenario in Higher Education & Role of stakeholders**” organized by Dr. Moonje Institute of Management & Computer Studies, Nasik on 9th January 2015.
- Expert talk on “**Role of management in Technical Education**” organized by K.K.Wagh Arts, Science and Commerce College, Nasik on 27th March 2015
- Expert lecture on “**Role of simulation in manufacturing excellence**” during two weeks FDP on “Manufacturing Excellence” organized by AVCOE, Sangamner on 21st April 2015
- Expert lecture on “**Simulation for manufacturing competitiveness**” organized by R.H. Sapat College of Engineering and Management Research, Nashik on 2nd February 2016
- Expert lecture on **Preparation for Outcome based assessment**, during one week organized by Government Polytechnic , Pune on 13th January 2017 at Pune
- Keynote address on **Research Methodology**, during State level workshop organized by Dr. Moonje Institute of Management and Computer studies, Nashik on 3rd February, 2017
- Expert lecture on “**Simulation for manufacturing competitiveness**” organized by A.V.College of Engineering Sangamner on 22nd December 2017 during the two week FDP program sanctioned by AICTE, New Delhi

- Keynote address on “**Research procedure: Some experiences**” organized by Government Polytechnic, Nashik during one week FDP on Research Methodology and Optimization, 30 Jan-4th February, 2018