

FACULTY PROFILE

NAME AND DESIGNATION: Er. N.K. Patil
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DESIGNATION: Associate Professor,
Department of Mechanical Engineering
SSBT's College of Engg. & Tech., Jalgaon.

DATE OF BIRTH: 23rd September, 1969

SUBJECTS OF INTEREST: Engg. Mechanics, Engg. Drawing,
Strength Of Material, Thermodynamics,
Metrology & Quality Control, Operation Research

TOTAL EXPERIENCE: Teaching: 21yrs
Industry: 02 yrs

ACADEMICS:

No.	Degree	Specialisation	University	Year	Remarks
1	B.E.	Production Engineering	Pune	1991	First Class (60%)
2	M.B.A	Material Management	NMU	1993	First Class (65%)
3	M. Tech.	Energy Management	DAVV	1995	First Class with Distinction (81%)
4	DCM	Computer Management	NMU	1996	First Class (63%)
5	M.E.	Mechanical Engineering (Machine Design)	NMU	2008	First Class with Distinction (70%)
6	Ph.D.	Mechanical Engineering	NMU	2011	Pursuing

PROFESSIONAL MEMBERSHIP:

1. Life Member of ISTE (LM11984) from 30-03-92
2. Life Member of SESI (0571/LM/95) from 16-01-95
3. Life Member of IE(I) (M123302-5) from 29-04-02
4. Life Member if IIPE (WM0643) from 01-08-99
5. Chartered Engineer
6. Life (Senior) Member of IIIE, SMIIIE 10409 (25) from 27-05-14

TEACHING EXPERIENCE:

Associate. Professor in Mechanical Engg. From 1st July, 2010 till date at SSBT's C.O.E.T., Jalgaon.

ADMINISTRATIVE EXPERIENCE:

1. Chairman, Adhoc Board of Studies for Production and Automobile Engineering. of North Maharashtra University, Jalgaon in the year (2001-03)
2. Member, Faculty of Engineering. & Tech., North Maharashtra University, Jalgaon in the year (2001-03)
3. Member, Academic Council, North Maharashtra University, Jalgaon in the year (2001-03)
4. Founder Chairman, Shramsadhana Engineering Alumni, Jalgaon
5. Coordinator, Alumni Meet (2003 to 2006)
6. Training & Placement Officer (2004-2009)
7. Coordinator – ISTE & IE(I) student chapter
8. Class Teacher, T.E(Mechanical),
9. Class Teacher & Coordinator for B.E (Mechanical) for the year 2003-2004, 2004-2005, 2005-06.
10. Industrial Tour In-charge for Mechanical & Production Engineering. (Total 10 times) BE (Mech) 2002, BE (Mech) (06-01-05 to 07-01-05), BE (Mech) (06-01-06 to 07-01-06)
11. Lab in charge of Model Lab. from 2000 till 2003
12. Lab in charge of MMM (former MQC) Lab. from 2003 till date
13. MBA Coordinator
14. Worked as a Course Coordinator in one week STTP on "Advances in Tribology" at SSBT's COET, Jalgaon. (25-10-10 to 29-10-10)
15. Course coordinator in National Level Workshop on Research Methodology Programme at SSBT's COET, Jalgaon (17-10-11 to 19-10-11)
16. Worked as Internal Auditor for ISO:2008 for Dept. of Chemical Engineering., SSBT's COET, Jalgaon (27-02-12)
17. Convener, Milestone2k12- National level paper presentation (30-03-12)
18. Coordinator, Discipline Committee, VasantUtsav 2012 (13-04-12)
19. Coordinator, Milestone2k13- National level paper presentation (02-03-13)
20. Co-coordinator, MODROB (2011-12)
21. Faculty Coordinator, ROBO-war, Mech-Fest 2012, S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon
22. External Officer & Internal Officer for annual departmental stock verification
23. Worked as Judge for event "Group Discussion" by ITESA, COET, Bambhori, Jalgaon (10-08-13)
24. Convener, Milestone-2k14, National Level Student Paper Presentation
25. Convener, Milestone-2k15, National Level Student Paper Presentation

FACULTY DEVELOPMENT:

1. Approval to the appointment of College Lecturer in Production Engineering (18-02-12 to 30-04-02)
2. Approval to the appointment of College Lecturer in Mechanical Engineering (w.e.f. 09-02-04)
3. Got recognition as Post Graduate Teacher from NMU (24-07-09 to 24-07-16)
4. Approval to the appointment as Assistant Professor in Mechanical Engg. (w.e.f. 15-09-09)
5. Re-designated as Associate Professor in Mechanical Engineering (w.e.f. 01-07-10)

DETAILS OF ACTIVITIES:

PUBLICATIONS - BOOKS	
2000	"Elements of Mechanical Engineering", Everest Publications, Pune.
	"Material Science", Vrinda Publication Jalgaon.
2007	"Engineering. Thermodynamics", NiraliPrakashan, Pune
2009	"Mechanical Measurement & Metrology", Nirali Publication, Pune
2012	"Strength of Materials", Prakash Publication, Jalgaon.
2013	"Applied Thermodynamics", Nirali Publication, Pune
2014	"Metrology & Quality Control", Nirali Publication, Pune
PUBLICATIONS – JOURNALS (International)	
	Published Paper entitled ""IC Engine – Cam-less by using development of controlled hydraulic actuator" in International Conference on Engineering Research & Application at Godavari College of Engineering Jalgaon
2012	Published a Paper "Optimization of Injection Molding Component (Pivot) Based on CAD-CAE Integration" published in International Journal of Engineering Research and Industrial Applications, Ascent Publication, Pune, (M.S) Vol. V No. IV ISSN 0974-1518 November 2012 (http://www.ascent-journals.com/ijeria_contents_Vol5No4.htm)
2014	Published a paper on "Modified Water Coolers" in International Journal & Magazine of engineering, Technology, Management and Research 'YuvaEngineers' ISSN No:2320-3706 (30-01-14) (http://www.yuvaengineers.com/modified-water-coolers-sourav-s-sen)
2015	Published a paper entitled, "Experimental Investigation of Thermal Efficiency of Domestic LPG Stove Burner" in Cybertimes-Feb-2015. (ICGTETM-2015-SSBT) [14-15]
PUBLICATIONS – JOURNALS (National)	
2013	Published a paper on "How workshop practice benefits engineering education" in Indian Journal of Scholarly Research (ISSN: 2278-8271), October 10, 2013
2015	Published a paper on "Analysis of Self Piercing process by Numerical Methods" in PRATIBHA: International Journal of Science, Spirituality, Business & Technology (IJSSBT) (ISSN: 2278-8271), Vol 3, No.2, June2015

2015	Published a paper on "Comparative Stress Analysis using ANSYS Software for different tires performance evaluation" in PRATIBHA: International Journal of Science, Spirituality, Business & Technology (IJSSBT) (ISSN: 2278-8271), Vol 3, No.2, June2015
PUBLICATIONS – Papers (International Level Conferences)	
2010	Presented a paper on "Vibration Analysis of Adhesively Bonded Single Lap Joint " at International Conference conducted by SES COE, Navalnagar (01-04-10)
2011	Presented a paper on "Finite Element Analysis of force transducer" at International conference of Sunrise Technologies conducted by SSVV's COE, Dhule and JKT University, Rajasthan (13-01-11)
2012	Presented a paper on "IC Engine – Cam-less by using development of controlled hydraulic actuator" at International Conference conducted by Godavari COE, Jalgaon (01-03-12)
2012	Presented a paper on "Critical velocity and vibration analysis of fluid flow through pipe", at International conference on 'Recent trends in Engineering & Tech.', SNJB's C.O.E., Chandwad. (24-03-12 to 25-03-12)
2013	Participated at International Conference on 'Recent Trends in Engineering. & Technology.' (ICRTET2013) (22-02-13 to 24-02-13)
2014	Presented a paper titled "Comparative Analysis of Twin & Mono tube shock absorber for comfort" at International Conference on "Sustainable Development" at SSBT's COET, Bambhori, Jalgaon (25-02-14 to 26-02-14)
2014	Published the paper entitled "Design & manufacturing of fatigue testing machine for tension or compression spring" at International conference on Modeling & Simulation in Engg. & Tech. (ICMSET-2014) organized by Godavari C.O.E., Jalgaon (15-02-14 to 16-02-14)
2014	Published the paper entitled "Effect of Weld Nozzle geometry variation in GMAW process – A review" at International conference on Modeling & Simulation in Engg. & Tech. (ICMSET-2014) organized by Godavari C.O.E., Jalgaon (15-02-14 to 16-02-14)
2015	Presented a paper entitled, "Experimental Investigation of Thermal Efficiency of Domestic LPG Stove Burner" in ICGTETM-2015, 11 Jan 2015
PUBLICATIONS – Papers (National Level Conferences)	
2004	Presented National Level Paper on "Micro-Electronic System" in National Seminar on Automation in Mechanical Engineering.", conducted by JTM COE, Faizpur (02-07-04)
2007	Presented a National Level paper in National Conference on "Innovations in Mechanical Engineering." (01-03-07)
2007	Presented a National Level paper in Symposium conducted by Sir Vishveshwaraya Memorial Engineering College, Nasik (30-03-07)
2008	Presented a paper on "Analysis of Mechanical & Thermal response of total hip joint replacement using FEM model" at Milestone 2k8, National level student paper presentation, SSBT's COET, Bambhori, Jalgaon (07-03-08)

2010	Presented a paper on "CSR as a tool for branding" at National level paper presentation conducted by GHR Institute of I.T., Jalgaon (23-01-10)
2009	Presented a paper on "FEA process in prosthesis design and analysis" at National level paper presentation conducted by SSBT's COET, Bambhori, Jalgaon (05-12-09)
2012	Presented a paper on "Car Ergonomics: Case Study" at National level paper presentation conducted by Gangamai COE, Jalgaon (02-03-12)
2012	Presented a paper on "Analysis of catalytic converter using CFD for reducing particulate matter and back pressure" at National Level paper presentation conducted by SSBT's COET, Bambhori, Jalgaon(30-03-12)
2012	Presented a paper on "Investigation of rapid prototyping as a remedy for casting" at Milestone2k12, National Level paper presentation conducted by SSBT's COET, Bambhori, Jalgaon (30-03-12)
2013	Presented a paper on "Vibration Analysis of cracked drilling machine arm" at Milestone2k13, National Level paper presentation, S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon (02-03-13)
2013	Presented a paper on "CFD Analysis of Draught through chimney" at Milestone2k13, National Level paper presentation, S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon (02-03-13)
2013	Presented a paper on "Application of inventory model for the development of lean supply chain" at Milestone2k13, National Level paper presentation, S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon. (02-03-13)
2013	Presented a paper entitled "Spray Nozzle selection criteria" in a National Level Paper Presentation contest 'Techwave-2013' at JTM COE, Faizpur (15-09-13)
PUBLICATIONS – Papers (State level Conferences)	
2009	Presented a paper on "Global Recession: Causes & Effects" at State level paper presentation conducted by PMK MahilaMahavidyalaya, Bhusawal & NMU, Jalgaon (05-12-09)
2012	Presented a paper on "Comfort Drive: Car Ergonomics " at State level paper presentation and conducted by COEIT, Jalgaon (08-10-12)
SHORT TERM TRAINING PROGRAMME	
1998	Participated in "Induction Training Programme" sponsored by AICTE New Delhi, and Organized by Academic Staff College in collaboration with Z.H. College of Engineering & Tech, Aligarh & Muslim University Aligarh (11-05-1998 to 30-05-1998) (3 weeks)
2000	Attended ISTE "Induction Training Programme" conducted by J.T.M. C.O.E.T., Faizpur, (26-12-00 to 04-01-01) (2 weeks)
2004	Attended "Short Term Training Programme on Finite Element Analysis and its application", conducted by KDK College of Engineering., Nagpur (29-11-04 to 10-12-04) (2 weeks)
2005	Attended "Refresher course in Production Engineering – Automation in Manufacturing Engineering", conducted by BIT, Mesra, Ranchi (28-11-05 to

	17-12-05) (3 weeks)
2010	Attended STTP in "Emerging trends in Manufacturing Engineering, conducted by Saraswati COE, Kharghar(11-01-10 to 15-01-10) (1 week)
2010	Attended STTP in "Advances in Tribology" conducted by S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon (25-10-10 to 29-10-10) (1 week)
2013	Attended a ISTE STTP on MATLAB fundamental Application at SSSGB, COET, Bhusawal. (22-03-13 to 27-03-13) (1 week)
2014	Participated in STTP on 'Industrial Engineering Techniques' at MANIT, Bhopal (20-05-14 to 24-05-14) (1 week)
2015	Attended one week STTP on "Design of Experimentation and Optimization Techniques" organized by SRES's College of Engineering, Kopargaoon on 1st to 5th June October 2015(2014-15).
WORKSHOPS:	
1995	Completed "EMCAT Basic Industrial Auditing" course from 6 th to 10 th March, 1995, organized by United States agency for international development, IDBI, Resources management associates of Madison, Inc.
1995	Completed "Software Technology & System Management" course from NIIT, Pune in May 1995
1998	Completed "Industrial Training on CNC" conducted by Techno four Electronics Pvt. Ltd., Pune from 09-08-98 to 12-08-98
1998	Participated in Workshop on Syllabus Framing for SE to BE of NMU, Jalgaon, held on 06-09-98
2000	Completed "Course on Metrology & Gauging" conducted by IPE, Bangalore, from 10-04-00 to 15-04-00
2000	Participated in training of 'IDEAS- CAD/CAM Software' organized at SSBT'S COET, Jalgaon by TATA ELXI Pune (2000)
2002	Participated in Workshop on "NBA training' conducted by I.E. (I), Pune local centre in 2002
2002	Completed "Master's program in CAD – AutoCAD & I-DEAS" from Techno Park- CAD/CAM/CAE/CNC Research Centre, Jalgaon in May 2002
2002	Participated in "Foundation course in 3D modeling using CATIA" organized by CADCAM guru and University of Pune in August 2002
2002	Completed "Proficiency in CATIA" from University of Pune, in Aug 02
2003	Participated in "Orientation Program for Engineering. College teachers", conducted by Engineering. Education Foundation, at S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon. (From 11-07-03 to 13-07-03)
2003	Participated in Two Day Workshop on MAT LAB conducted in S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon by India Soft Technology (22-07-03 to 23-07-03)
2003	Undergone "Training, Testing and Maintenance of Metrology Instruments" from G.G. Instruments, Pune(18-11-03 to 21-11-03)
2004	Attended "Entrepreneurship Awareness Camp" conducted by MITCON (29-03-04 to 31-03-04)

2004	Participated in Workshop on "Syllabus of FE & SE of NMU, Jalgaon" (14-08-04)
2005	Participated in Workshop on "Emerging Trends in HR Management for the campus selections", conducted by Channabasaveshwara Institute of Technology, Tumkur (28-10-05 to 29-10-05)
2006	Participated in Training Programme on "MATLAB & SIMULINK", conducted by India Soft Technologies (P) Ltd., in 2006
2008	Participated in National Level Seminar on "Nano-technology: Perspective & Future", at SSBT's COET, Bambhori, Jalgaon. (08-03-08)
2008	Participated in Workshop on "Soft Skills" conducted by Infosys Technologies Ltd, Pune (21-07-08 to 25-07-08)
2008	Attended Training Programme on "Faculty Development Programme in Entrepreneurship", conducted by MITCON & DST, Govt. of India (05-11-08 to 17-11-08)
2010	Participated in In-Plant Training Programme on "Disaster Management" (23-01-10)
2010	Participated in Workshop on " High Impact Skills" conducted by Wipro & Dale Carnegie Training (29-03-10 to 30-03-10)
2010	Attended Workshop on "Mission10X" conducted by Wipro & Dale Carnegie Training (31-03-10 to 02-04-10)
2010	Attended Workshop on "Possibilities of energy saving in industries & energy audit-2010 (17-04-10)
2011	Participated in National Level Workshop on "Research Methodology" conducted by SSBT's COET, Jalgaon, I.E.(I), Bosch Chassis India Pvt. Ltd., Supreme Ltd. (17-10-11 to 19-10-11)
2011	Attended two week ISTE Workshop on "Solar Photovoltaic's: Fundamentals, Technologies and Applications" conducted by IIT, Mumbai (12-12-11 to 22-12-11)
2012	Attended two week ISTE Workshop on "Computational Fluid Dynamics" conducted by IIT, Mumbai, (12-02-12 to 22-06-12)
2012	Attended two week ISTE Workshop on "Introduction to Research Methodologies" conducted by IIT, Mumbai, (25-06-12 to 04-07-12)
2012	Attended Workshop on "Research Methodology" conducted by NMU, Jalgaon (20-09-12 to 24-09-12)
2012	Participated in Workshop on Syllabus framing of SE, TE & BE (Mechanical Engg.) for NMU at RCPIT, Shirpur (08-11-12)
2012	Attended two week ISTE Workshop on "Aakash for Education" conducted by IIT, Mumbai, (10-11-12 to 11-11-12)
2013	Participated in Workshop on "Syllabus framing of Third Year Engineering of NMU, Jalgaon" (31-08-13)
2013	Participated in two week ISTE workshop on "Engg. Mechanics" conducted by IIT Bombay (26-11-13 to 06-12-13)
2013	Participated in Workshop on "CAD/CAM/CAE" conducted by Department of

	Mechanical Engineering at S.S.B.T.'s, C.O.E.T., Bambhori, Jalgaon (14-01-13 19-01-13)
2015	Participated in two days' Workshop on "A National Level Doctoral Consortium for Research Scholar in Mechanical" organized by MET Bhujbal Knowledge City, Nasik, on 5th & 7th Jan 2015 (2014-15)
2015	Participated in one Day Workshop on Syllabus framing of B.E. Mech, Conducted by SSBT's COET Bambhori on 06th Jan 2015 (2014-15)
OTHER INSTITUTE INTERACTION	
2003	Visiting faculty in Govt. C.O.E., Jalgaon
	Visiting faculty in U.D.C.T., Jalgaon
	Visiting Faculty in Dhanaji Nana Management College, Jalgaon
	Visiting expert in Bhagirathi ITC for CAD/CAM/CAE/CNC
2003	Examiner in DIPEX IN 2003 & 2004
2004	Examiner in Open House Programme conducted by UDCT, Jalgaon, in 2002 & 2004
	Worked as Internal & External Vigilance Squad member during NMU exams.
2010	Member in Syllabus restructure committee for MBA at Department of Management Studies, COEIT, Jalgaon. (02-02-10 to 03-02-10)
2010	GDPI Expert in the process of MBA/MMS CET GDPI Conducted by DTE (24-05-10 to 25-05-10)
2010	Worked as External Senior Supervisor in Godavari COE, Jalgaon (26-11-10 to 04-12-10)
2011	Paper setter at SGB Amravati University, Amravati (31-01-11)
2011	Worked as External examiner for BE Examination at SNJB's COE, Chandwad (11-05-11)
2011	GDPI Expert in the process of MBA/MMS CET GDPI Conducted by DTE (20-05-11 & 23-05-11)
2011	Worked as External Senior Supervisor in SGDCOE, Jalgaon (22-12-11 to 30-12-11)
2012	Paper setter at SGB Amravati University, Amravati (12-01-12)
2012	Worked as External Senior Supervisor in KCES COET, Jalgaon (04-06-12 to 13-06-12)
2012	External Examiner for Dissertation work of M.E. at PRMITR, Badnera (18-07-12)
2013	Expert Lecture on "Interview Technique" in Government Polytechnic, Jalgaon (11-03-13)
2013	Expert Examiner in State Level technical event KNOVELTY2013 at G.P. Jalgaon (01-10-13)
2014	External Examiner for Project in University of Pune at SITRC, Nasik (04-06-14 to 05-06-14)
2014	External Senior Supervisor in GF's GCOE, Jalgaon (07-06-14 to 13-06-14)
2015	External Senior Supervisor in GHR COE, Jalgaon (-15 to -15)

CONSULTANCY	
2010	Provided consultancy work of contribution worth Rs. 1.20 Lacs at Kirit Solar System, Jalgaon (2010-13)
2011	Provided consultancy work in field of AutoCAD – Drawing & Modeling that is contribution worth Rs.1.20 Lacs at Swami Vessels Pvt. Ltd., Jalgaon (2011-12)
2012	Provided consultancy work in field of Metrology, Quality Control & Solid Modeling that is contribution worth Rs.1.15 Lacs at Swami Vessels Pvt. Ltd., Jalgaon (2011-12)
2013	Provided consultancy work in field of AutoCAD – Drawing & Modeling that is contribution worth Rs.1.15Lacs at Swami Vessels Pvt. Ltd., Jalgaon (2012-13)
2013	Technical Consultant and Advisor in the development activities related to Metrology Lab., of the Mechanical Dept. at AbasahebShivajiraoSitaram Patil Institute of Polytechnic, Tal –Dharangaon. Dist Jalgaon (2011-13)
AWARDS RECEIVED	
2002	Certificate of excellence for the best result in Tool Design was awarded in the year 2002 by the college
2003	Certificate of recognition for the best result in Machine Design & Computer Graphics was awarded in the year 2003 by the college
2014	Received a Certificate of Merit in recognition to paper on “Modified Water Coolers” as a winner (30-01-14)
PROJECT GUIDED – UG	
2012	Automatic Hydraulic Crane
	Manufacturing and Development of Injection Mould
	Energy Audit & Management in Bosch Chassis System India (ltd).
	Mechanism for dynamic balancing of wheels”
	Automatic Bike Stand
	Designing & fabrication of Universal Nibbling Machine
PROJECT GUIDED – PG:	
EXTRA-CURRICULAR ACTIVITIES:	
2010	Participated in Workshop on “Achieving oneness with the Higher Soul Course”, conducted by World Pranic Healing Foundation Inc, Bangalore (27-07-10)
2010	Participated in Workshop on “Basic Pranic Healing Course”, conducted by World Pranic Healing Foundation Inc., Bangalore (01-08-10)
2010	Participated in Workshop on “Spiritual Business Management Course”, conducted by World Pranic Healing Foundation Inc., Bangalore (21-08-10).

