

## 1 Personal Information :

Full Name – Dr. Mohan Harihar Nerkar

Date of Birth : 19<sup>th</sup> August 1961

Designation – Associate Professor

Email Address – mhnerkar@gmail.com



## 2 Educational Information:

Sr. No.	Education	University	Class /Divison	Year	Specialization
1.	B.E.( Electronics & Power )	NAGPUR	FIRST	1985	Microprocessors, Design of Electronic Circuits
2.	M.E.(Electronics & Telecommunication)	PUNE	First with distinction	1998	Control & Instrumentation
3.	Ph.D. (Electrical Engineering)	Dr. B A M U Aurangabad	Awarded	2013	Performance Analysis of Inverter Systems

## 3 Experience:

### a. Employment Record

Sr. No.	Organization / Institute	Designation	Working Period
1	Govt. College of Engineering, Amravati	Lecturer	04/04/1987 to 31/07/1997
2	Govt. College of Engineering, PUNE	Selection grade lecturer	01/08/1997 to 25/07/2002
3	Govt. College of Engineering, Aurangabad	Associate Professor in Electronics	01/08/2002 to 01/05/2011
4	Govt. College of Engineering, Jalgaon	Associate Professor in Electronics	01/05/2011 to 07/07/2018
5	Govt. College of Engineering, Aurangabad	Associate Professor in Electronics	08/07/2018 till date

## 4 Vital responsibilities executed:

1. MHTCET Observer for Jalgaon Division 2013
2. MHTCET Liaison Officer Aurangabad 2019
3. Member Final year Engineering Result Committee, Amravati University
4. Worked as Time table coordinator for 3 years at PUNE
5. Member, Quality Circle Pune 1998-2000
6. Senate member, Govt Polytechnic Pune
7. Training & Placement Officer at GCOE Aurangabad 2003-2011
8. Training & Placement Officer at GCOE Jalgaon 2012-2013
9. Dean R & D, GCOE Jalgaon 2014-2016
10. Coordinator (NBA & AICTE) GCOE Jalgaon 2014-2016
11. Coordinator (NBA) GCOE Aurangabad 2004-2005
12. **Over 50** ME projects guided and executed

<b>Sr No</b>	<b>Name /Title of the Activity</b>	<b>Institute/ Organization</b>	<b>Dates</b>	<b>Period</b>	<b>Organized / Executed</b>
1.	<b>DTE</b> training program for over 230 ( <b>ALL</b> Class-1 officers and <b>ALL</b> types of support staff in DTE)	Govt. C.O.E. Aurangabad	Jan-Feb, 2009	08 WEEKS	Organized and executed
2.	Special efforts drive to groom the personality of campus selected students with rural background	Govt. C.O.E. Aurangabad	Winter 2005	3-4 Months	Organized and executed
3.	A development of OPEN SOURCE Lab with the aid of Corporate (COGNIZANT) IRG & III activity	Govt. C.O.E. Aurangabad	9, Nov,2009	09 Months	Organized and executed
2.	Corporate Induction Training for Cognizant (Unique and first time)	Govt. C.O.E. Aurangabad	4-21, July, 2006	03 WEEKS	Organized and executed
3.	Conquer the Campus (T & P) program	Govt. C.O.E. Aurangabad	Winter 2007,	08 WEEKS	Organized
4.	“Mumbai Dabbawalas” Six Sigma Seminar	Govt. C.O.E. Aurangabad	03 March 2007	01 DAY	Organized
5.	In campus Training for 285 students	Govt. C.O.E. Jalgaon	Winter, 2012	03 WEEKS	Organized
6.	Short-listing of 111 Students for the first time	Govt. C.O.E. Jalgaon	17, April 2013	02 WEEKS	Organized
7.	A workshop for Motivation & personality for over 700 students (Prayaan 2k13)	Govt. C.O.E. Jalgaon	3 APRIL, 20 13	01 Day	Organized and executed
6.	TEQIP hands-on-workshop on Roadmap to embedded systems	Govt. C.O.E. Aurangabad	October, 2 005	02 WEEKS	Organized and executed
7.	Organization & Conduction of Indian Army interviews for 1145 students of GCOE Aurangabad and <b>other University areas</b>	Govt. C.O.E. Aurangabad	<b>Assorted</b>	02 WEEKS	Organized and executed
			<b>TOTAL</b>	<b>75 WEEKS plus</b>	

**5 Activities Conducted by Prof. Dr. M. H. Nerkar at GCOE, Jalgaon**

<b>Year 2010-11</b>			
<b>Sr No</b>	<b>Activity</b>	<b>Date of Conduction</b>	<b>Remarks</b>
1.	Syntel on-line test	20-11-2011	First time in the campus for 200 plus students at a time
2.	Joint effort of pool campus with GCOE Aurangabad	07-01-2012	For Mechanical, First time in the campus
3.	Army Pre-selection drive	18-02-2012	For all TE & Final Boys
<b>Year 2011-12</b>			
1.	A Seminar on Career in Industrial Automation	03-03-2012	First time in the campus for 235 beneficiaries
2.	ProfNerkar'sseminaronMethods of learning & Career	6-08-2012	FE Students of Computer, Civil & Electrical
3.	ProfNerkar'sseminaronEffective Communication	31-08-2012	All SE Students (A brilliant initiative of students )
4.	Seminar on Personality Development	15-09-2012	All FE to BE (E & T/C Students)
5.	Seminar on Self Motivation	27-09-2012	All SE/TE (E & T/C Students)
6.	Gear-up drive for workshop for enhancing Campus recruitment	27-29 Oct 2012	All Final year Students
7.	Workshop for enhancing Campus recruitment (Globeareana)	2-9, Nov 2012	All Final year Students
<b>Year 2012-13</b>			
1.	Workshop for enhancing Campus recruitment(Globeareana)	17-18 Jan 2013	All Final year Students
2.	CMC limited Pune Pool Event Endeavored by GCOE Jalgaon	22-24 Jan 2013	All Final year Students (21 finally got offered)
3.	UES Pre selection drive	14 Jan 2013	For TE Boys only

4.	Campus Visits to 21 industries across Mumbai, Pune and Aurangabad	Between 7-15 Jan 2013	Siemens, Bajaj Auto, MAN Diesel, Tata Honeywell, Thermax, Endress Hauser etc
5.	PRAYAN-2013 an event for skill enhancement for employability	3-04-2013	For 710 Students of SE, TE and BE
6.	A campus drive planned for Jain Irrigations	16-17, April 13	Mechanical, Electrical and Electronics

### **Activities conducted by R & D Cell GCOE, JALGAON**

1. Preparation of 10 Year R & D proposal
2. Routine activities like Research paper writing for conferences and journals and fiscal execution
3. Issues like diverse research grants, projects and Seed Money proposals and monitoring
4. Execution of One week STTP on **“LaTeX –A Hands on Workshop on LaTeX, Software and Communication”**

#### **Objective of the program:**

LaTeX (short form of Lamport TeX) is a document preparation and markup language software. It is widely used for the communication and publication of scientific documents in fields including mathematics, physics, computer science, statistics, engineering, economics etc. Its prominent role is in preparation and publication of books, research papers, articles containing multilingual materials such as Sanskrit.

#### **The expected outcomes:**

- Learn fundamentals of LaTeX
- Typesetting mathematics
- Writing a report
- Making presentations
- Learn basic science communication

#### **Other Vital Activities executed:**

- State level observer for MH-CET entrance test 2013 for Jalgaon district
- State level observer for MBA-CET entrance test 2016 for other state at BHOPAL
- Resolving critical issues related to evaluation of NMU Jalgaon (As a Chair person)
- Making presentations at engineer’s day and similar occasions
- Examination Flying Squad and BoS member contributions

<b>Sr No</b>	<b>Name /Title of the Publications</b>	<b>Publication type/ Name of the journal /Conference</b>	<b>Vol/Issue/Dates</b>	<b>Remarks/ Pages</b>
1.	Elements of Electronics and Instrumentation	<b>A text- book</b> for Dr. BAM University, AURANGABAD	Sept, 2004	Reprinted twice
2.	Review on Autonomous Car using Raspberry Pi	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Volume 6 Issue I, January 2018	ISSN: 2321-9653 pp. 3090-93
3.	Women Tracking Auto Defender System	International Journal of Innovative Research in Computer Communication Engineering	Vol. 6, Issue 1, January 2018	ISSN : 2320-9798 pp 501-504
4.	Survey on High Speed Computing System Architectures	International Journal of Applied Engineering Research	Volume 12, November (2017)	ISSN 0973-4562 pp. 9225-30
5.	Implementation of High Dimension Colour Transform in Domain of Image Processing	International Research Journal of Engineering and Technology (IRJET)	Volume: 04 Issue: 08 Aug - 2017	ISSN: 2395-0072 pp: 2047-56
6.	A Topology for Cascaded Multilevel Inverters Based on Developed H Bridge	International Journal & Magazine of Engineering IJMETMR	Vol 3 Issue No 5 May 2016	ISSN:2348-4845 pp:472-76
7.	Smart Dust	International Journal of Advanced Research IJARCCCE	Vol. 5, Issue 6, June 2016	ISSN : 2319 5940 pp:685-91
8.	A review on optimization of energy by using PWM inverter	International Journal of Advanced Research in Computer Engg & Technology (IJARCET)	Volume 2, Issue 1, January 2013	ISSN: 2278 - 1323 pp. 82-85
9.	Two port model with an innovative parameter for evaluation of domestic inverter systems	International Journal of Engineering Research & Technology (IJERT)	Vol. 1 Issue 5, July - 2012	ISSN: 2278-0181 pp. 01-04

10.	Cloud Computing in Distributed System	International Journal of Computer Science and Informatics ISSN (PRINT)	VOL-I, Issue-4, 2012	(ISSN: 2231-5292) pp. 70-74
11.	Use of Texture Orientation Based Vanishing Point for Road Direction Estimation	International Journal of Innovative Research in Computer and Communication Engineering	Vol. 3, Issue 7, July 2015	ISSN (Print): 2320-9798 pp 7212-7216
12	Vanishing Point Estimation for On- Road Navigation	International Journal of Emerging Technology and Advanced Engineering (IJETAEE)	Volume 5, Issue 4, April 2015	(ISSN 2250-2459), pp. 73-77
13.	Medical image processing for telemedicine application	International Journal of Advanced Engineering and Research Development (IJAERD)	Volume 2, Issue 6, June 2015	(ISSN 2348-4470), pp. 324-329
14.	Color Vision Based Drivable Road Area Estimation	International Journal of Innovative Research and Development	Volume 4, Issue5, 2015	pp. 234-237
15.	Performance Evaluation and Analysis of Various Inverter Systems	3rd IEEE, International Conference on Electronics Computer Technology (ICECT 2011)	8-10 April,2011	Vol I, Issue5 (I), pp. 123-126
16.	Zigbee based W/L sensor N/W (CC2430)	International Journal of Machine Intelligence and Applications (E <sup>3</sup> C2010)	26, Mar, 2010	E3C-JDCOE 2010

17.	A Comparative Performance Analysis of OFDM using MATLAB Simulation	International conference on contemporary issues in management, technology & economics, ICCIMTE	Sept, 2012	pp. VI 325-329
18.	Multichannel Signal Processing using TAS5508 and TAS 5121	2005 IEEE workshop on Applications of SP	16-19 Oct, 2005	New Paltz, New York
19.	A survey of Cloud Computing Security challenges and solutions (Referred)	International Journal of Computer Science and Information Security (IJCSIS)	Vol. 14, No. 1, January 2016	ISSN 1947-5500
20.	Wireless data transfer for energy meter	IEEE (IACC) 09 Patiala	6-7, MAR, 2009	Research Paper
21.	IGBT based 3-ph drive for wind turbines	International Conference WETI-09, TTTF, Bhopal	5-7, JAN, 2006	Research Paper
22.	Emerging trends in signal processing & comm	IEEE (Mumbai Section) & AICTE sponsored	27-29 DEC 2007	Research Paper
23.	Recent trends in information systems & management	AICTE National Conference; SATI VIDISHA	16-17, December 2006	Research Paper
24.	A Review on Dynamic Stand-Alone Gas Detection System	International Journal of Innovative Research in Computer and Communication Engineering	Vol. 5, Issue 6, June 2017	ISSN : 2320-9798 pp:11467-72

## 6 Details of organizing/ participating in technical activities, conferences and workshops

<b>Sr No</b>	<b>Name /Title of the Activity</b>	<b>Institute / Organization</b>	<b>Dates</b>	<b>Duration</b>
1.	Instruction Enhancement Programme	IISC, Bangalore 560012	13NOV - 23NOV 2000	02 WEEKS
2.	Hardware Networking	ECIL (Govt of India) BDPS, Pune	28 Aug-24 Aug 2001	08 WEEKS
3.	Non conventional Energy Resources	Govt. C.O.E. Aurangabad	13 Dec-25Dec 2004	02 WEEKS
4.	Energy Audit and Conservation	Govt. C.O.E. Aurangabad	17 Feb-21 Feb 2005	01 WEEK
5.	Data warehousing & IBM infosphere (TEQIP)	Govt. C.O.E. Aurangabad	17-24, JUN, 2009	01 WEEK
6.	STTP on ASIP	Govt. C.O.E. Jalgaon	26 Nov-30 Nov 2012	01 WEEK
7.	STTP on Recent trends in Computer N/W	Govt. C.O.E. Jalgaon	03 Dec-07Dec 2012	01 WEEK
8.	Reliasoft's Reliability Engineering Education	Govt. POLY. Aurangabad	05-09, MARCH, 2012	01 WEEK
9.	MSP 430 and its Application in design	Govt. C.O.E. Aurangabad	20 Sept-24 Sept 2013	01 WEEK
10.	Development of Evaluation of Training	YASHDA, PUNE	04 Feb-08 Feb 2013	01 WEEK
11.	LateX- a hands on STTP	Govt. C.O.E. Jalgaon	20 -24 Nov 2015	01 WEEK
			<b>TOTAL</b>	<b>20 WEEKS</b>

**Prof. Dr. Mohan Nerkar**