GOVERNMENT POLYTECHNIC, ARVI FACULTY PROFILE

DEPARTMENT: Electronics and Telecommunication Engineering

DR. VIKAS JAIRAM DONGRE

OFFICE:

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RESIDENCE:

C/o Arvind Gupta Tayde Layout, Gajanan Nagar, Arvi, District Wardha, Maharashtra. Pin- 442201



PERSONAL:

Date of Birth: 11th October 1969. Citizenship: Indian. Marital Status: Married.

EDUCATION:

Sr. No.	Diploma/ Degree	College	Board/ University	Year of Passing	
1	Ph. D. (Electronics Engg.)	-	RTM Nagpur University	23rd May 2016	
2	MA (Public Administration)	-	RTM Nagpur University	1996	
3	M.E. (Electronics)	Walchand College of Engineering Sangli	Shivaji University Kolhapur	1994	
4	B.E. (Electronics)	MIET Gondia	RTM Nagpur University	1991	

5	HSC	MM Higher Secondary School Gondia	Nagpur Board	1987
6	SSC	D B Science College Gondia	Nagpur Board	1985

Ph. D. Title: *Design, Analysis, and Implementation of algorithms for Devanagari offline Character Recognition using Soft Computing Tools.*

PRESENT POSITION :

Head Of Department (HOD), Department of Electronics and Telecommunication Engineering, Govt. Polytechnic, Arvi, District Wardha, (Maharashtra).

TEACHING EXPERIENCE: 30 years

Sr. No	Post	Institute	From	То
1	Lecturer in Electronics	PDVVP College of Engineering Ahmednagar	03.08.1992	14.12.1992
2	Lecturer in Electronics	SSVPS College of Engineering, Dhule	15.12.1992	27.8.1994
3	Lecturer in Electronics	Govt. Polytechnic, Nagpur	29.8.1994 to	31-01-1996
4	Lecturer in Govt. Polytechnic, Sakoli Electronics		01-02-1996	03-08-2007
5	Lecturer in Electronics	<i>J</i> , 81		05-06-2012
6	Lecturer in Electronics	Govt. Polytechnic, Gondia	06-06-2012	03-08-2016
7	HOD Electronics	Govt. Polytechnic, Washim	04-08-2016	10-08-2021
8	HOD Electronics Govt. Polytechnic, Arvi		11-08-2021	Till date

Awards and Achievements:

- GATE Scholarship with a percentile of 77.57 % (year 1991).
- Received ISTE Best Polytechnic Teacher award for Maharashtra Goa Section for the year 2020.

Books Published

1. Video Creation and Online Teaching, Kindle and paperback on Amazon, 2020.

2. Wonderful aging beyond Fifties, Kindle, and paperback on Amazon, 2021.

Total No of Research Publications: 9 in International / National Journals and Conference Proceedings.

Design Patent: Dripping Plate, Design no. 311245 Dt. 22-10-2018, issued on 15-01-2020.

REVIEWER:

- Reviewer of the book "Microprocessor and Interfacing", to be published by Tata McGraw Hill 2011.
- Reviewer of the book "Digital Electronics" by Tata McGraw Hill 2010.
- Reviewed research papers for First International Conference on Digital Image Processing and Pattern Recognition DPPR-2011.
- Reviewed research papers for Third International Conference on Networks & Communications NetCoM -3.0 2011.
- Reviewed research papers for International Conference on Parallel, Distributed Computing technologies and Applications PDCTA-2011.

PROGRAM COMMITTEE MEMBER:

- Second International Conference on Computer Science and Information Technology CCSIT-2012.
- First International Conference on Digital Image Processing and Pattern Recognition DPPR-2011.
- Third International Conference on Networks & Communications NetCoM -3- 2011.
- International Conference on Parallel, Distributed Computing technologies and Applications PDCTA-2011.

INVITED TALK DELIVERED / RESOURCE PERSON:

- Resource person for Training program on "Computer awareness" for faculty members at Govt. Polytechnic Nagpur, 18th -20th Dec 1995.
- Resource person for Training program on "dBase programming" for faculty members at Govt. Polytechnic Nagpur, 8th -20th Jan 1996.
- Invited Talk on "Devnagari Character Recognition: Issues and challenges" at IETE Nagpur Centre, 14th May 2011.
- Invited Talk on "How to present Seminar effectively" at Jhulelal Institute of Technology, Nagpur, 11th Mar 2011.
- Invited Talk on "How to Select, Prepare and Present Industrial Project effectively" at Shri Datta Meghe Polytechnic, Hingana Rd, Nagpur, June 23, 2011.

- Delivered webinar on Academic Video Creation in 4 batches for faculties of various colleges in Maharashtra, during Covid 19, from 22-07-2020 to 25-07-2020.
- Delivered webinar in STTP on the Use of ICT organized by VINT Nagpur, on 16-07-2020.
- Delivered webinar on Job opportunities after HSC for students of Washim District, organized by Skill Education department Washim District, on 15-07-2020.
- Delivered webinar on Job opportunities for Electronics and Communication Engineers, organized by Priyadarshini Institute of Technology Nagpur, on 25-07-2020.
- Delivered webinar in STTP on the Use of ICT organized by K. K. Wagh Polytechnic Nashik, on 06-05-2021.
- Delivered Keynote address in STTP organized by Bapurao Deshmukh Engineering College on Pedagogy in Education, on 07-06-2021.
- Delivered webinar on Effective use of online resources and video creation for teachers of NIT Polytechnic Nagpur, on 30-09-2021.
- Delivered Webinar on Job opportunities for students of Government Polytechnic Gondia. On 31-10.2021
- Delivered webinar on Project Report Writing in the State level online workshop organized by Govt. Polytechnic Bramhapuri, on 16-04-2022.

FACULTY DEVELOPMENT PROGRAMS ATTENDED:

- 1. STTP on "Satellite Communication" at I.I.T. Mumbai, 14th -25th Nov 1994.
- 2. "Induction Program Phase- I," G.P Nagpur, 19h June 17 June-15h July 95.
- 3. Workshop on Curriculum Implementation, NITTTR Bhopal, 20th -24th Apr 1998.
- 4. STTP on "Micro Controller & Electric Drives", Govt. Polytechnic, Amaravati, 14th -25th Sept. 1998.
- 5. "Induction Program Phase- II," G.P. Pune, 18 Jan.-12th Feb 1999.
- 6. "STTP on Introduction to Computer Hardware, Peripherals, and Troubleshooting," GRWP Yawatmal, 25th June-6th July 2001.
- 7. STTP on "Optic Fiber and its Applications", TTTI Chandigarh, 16th -27th July 2001.
- 8. STTP on "Modern Trends in Optoelectronics", UCP Engg. School, Berhampur, Odisha, 11th 22nd Nov 2002.
- 9. STTP on "Development of Generic Skills", Raisoni Polytechnic, Nagpur (MS), 12th to 16th Jan 2004.
- 10. STTP on "Wireless & Mobile Communication", Govt. Polytechnic, Pune, 17th -28th May 2004.
- 11. STTP on "Introductory Course in DSP & its Applications", Amrita Vishwa VidyaPeetham, Coimbatore, Tamilnadu, 22th Nov 03rd Dec 2004.
- 12. STTP on "Mechatronics Scope, Strategies, and Opportunities for Engineers", Raisoni Engg. College, Nagpur (MS), 20th Jun -02th Jul 2005.
- 13. STTP on "Computer Hardware Maintenance", Govt. Polytechnic, Mumbai, 9th -12th Oct 2005.
- 14. STTP on "Latest Trends in Advanced Communication", Raisoni Engg. College, Nagpur (MS),18th 22nd Sept 2006.

- 15. Industrial training at Hindustan Aeronautics Limited (HAL) Nashik,14th -18th Nov 2006.
- 16. STTP on "Digital Image Processing and Applications to Real-Time Systems", Raisoni Engg. College, Nagpur (MS), 26th -31st Mar 2007.
- 17. Industrial Training at Rashtriya Chemicals and Fertilizers (RCF)Mumbai, 15th Nov- 4th Jan 2007.
- 18. Training on "Embedded Systems and VLSI Design in Robotics", I2IT center for excellence in Robotics, I2IT Pune, 1st-30th June 2008.
- 19. STTP on "Embedded Systems", Raisoni Polytechnic, Nagpur, 2nd -7th Feb 2009.
- 20. TEQIP training program on "Research Methodologies in Engineering and Technologies", Govt. Polytechnic, Nagpur, 26th -28th Feb. 2009.
- 21. "Curriculum Detailing Workshop for the Program on Maintenance Engineering & Safety," NITTTR, Bhopal, 10-14 Aug 2009.
- 22. STTP on "Advanced MATLAB", Zulelal Institute of Technology, Nagpur, 7th-11th Mar 2011.
- 23. STTP on "Circuit simulation and PCB design using ORCAD", Govt. Polytechnic Nashik, 16-20 Mar 2012.
- 24. ISTE STTP on "Introduction to Research Methodologies", organized by IIT Mumbai 25th June 4 July 2012.
- 25. One-week "International Trainer and Assessor Course" conducted by Sydne TAFE University Australia at Mumbai, 13 19 Mar. 2016.
- 26. 3 Week equivalent STTP on "Use of ICT in Education for Online and Blended Learning", organized by IIT Mumbai, from 02-05-2016 to 10-07-2016.
- 27. DTE sponsored STTP on "Outcome-based Education (OBE) Philosophy and NBA Awareness", organized by Govt. Polytechnic Pune, 09-13 Jan. 2017.
- 28. Class 1 Officers Foundation training at YASHDA, Pune, 08 Nov to 19 Dec 2017.
- 29. DTE sponsored program on "Program outcome Attainment Methodology", organized by Govt. Polytechnic Nagpur, 29 Jan- 02 Feb 2018.
- 30. AICTE ISTE STTP on "Nanotechnology: Recent Advancements and Challenges", organized by SKIT Jaipur, 02-07 July 2018.
- 31. AICTE ISTE FDP on "Internet of Things: Education Canvas", organized by SKIT Jaipur, 09-20 November 2019.

LIST OF MAJOR ACTIVITIES:

- In-charge of Curriculum Design committee for Autonomous course for Diploma in Electronics & Telecommunication Engg. at Government Polytechnic, Nagpur 1995.
- Convener, IETE Students Forum Government Polytechnic, Nagpur for the academic session 2009-10.
- In-charge HOD, Dept. of Electronics & Telecommunication at Government Polytechnic Sakoli for 11 years.
- In-charge HOD, Dept. of Electronics & Telecommunication at Government Polytechnic Gondia for 4 years.
- Officer In-charge MSBTE Theory Examination.
- Officer In-charge MSBTE Regional Assessment Centre.

- District Facilitator for the conduct of MSCIT Examination in Nagpur District (2008-2011)
- Member of the Ist year admission committee.
- In-charge of IInd & IIIrd year admissions.
- Secretary of Students Co-operative stores.
- Member in Curriculum Development of Diploma program in "Maintenance Engineering & Safety" of Rajiv Gandhi Technical University, Bhopal, 2009.
- Co-coordinator MODROBS Project at Government Polytechnic Nagpur during 2009-2011.
- Gymkhana in-charge in Government Polytechnic Gondia and Government Polytechnic Washim.
- In-charge Principal Government Polytechnic Washim, from 09-08-2016 to 01-02-2017 and from 18-02-2018 to 20-07-2018.
- In-charge NBA in Government Polytechnic Washim.
- In-charge School-Connect in Government Polytechnic Washim.
- Officer In-charge Theory Exam as well as Library in charge in Government Polytechnic Arvi.
- Appointed as Moderator, Setter, and member of various local inquiries by College/ MSBTE/ Directorate of Technical Education Maharashtra.
- Member/Chairperson in committee for course/program/intake variation of AICTE/non-AICTE diploma programs by BTE MS.
- Core Member in Design on of Curriculum for Diploma in Mechatronics, MS BTE, Mumbai.
- Member, Program wise Board of Studies (PBOS) for development of curriculum for 3-year diploma in Mechatronics at Government Polytechnic Nagpur

PROGRAMS ORGANISED:

- Training program on "dBase programming" for faculty members at Govt. Polytechnic Nagpur, 8th -20th Jan 1996.
- 10-day residential Personality Development summer camp for school children aged between 8 to 14, at Sakai Dist. Bhandara, in 2006.
- Workshop on Robotics using microcontrollers at Govt. Polytechnic Nagpur in 2009.
- Technical inter-poly student's breadboard circuit design, under TWIN-TECH 2011 at Govt. Polytechnic Nagpur, 30th Sept 2010.
- Training workshop on Microcontroller programming and interfacing at Govt. Polytechnic Nagpur in 2010.
- Training workshop on ORCAD Software at Govt. Polytechnic Nagpur in 2010 & 2011.
- Technical inter-poly student's Quiz competition under TWIN-TECH 2011 at Govt. Polytechnic Nagpur, 26th Sept 2011.
- Video Creation state-level Competition for MSBTE students in 2021 at G P Washim.
- Video Creation state-level Competition for MSBTE students in 2021 at G P Arvi, in April 2022.

MEMBERSHIP IN PROFESSIONAL BODIES:

- Life member of Indian Society for Technical Education, ISTE (LM 23456).
- Life Member of Institution of Electronics & Telecommunication Engineers, IETE (M-202245).

RESEARCH PUBLICATIONS

BOOK CHAPTERS:

1. "Segmentation of Printed Devanagari Documents," D.C. Wyld et al. (Eds.): ACITY 2011, CCIS 198, Springer-Verlag Berlin Heidelberg, pp. 211–218, 15-17 July 2011.

ii) PAPERS PUBLISHED IN INTERNATIONAL AND NATIONAL JOURNALS:

- 1. Vikas J. Dongre, Vijay H. Mankar, "A Review of Research on Devnagari Character Recognition," *International Journal of Computer Applications*, (0975-8887) Vol. 12- No. 2, pp 8-15, November 2010.
- 2. Vikas J. Dongre, Vijay H. Mankar, "Devnagari Document Segmentation Using Histogram Approach", International *Journal of Computer Science, Engineering and Information Technology (IJCSEIT), Vol.1, No.3*, pp 46-53, August 2011.
- 3. Vikas J. Dongre, Vijay H. Mankar, "Development of Comprehensive Devnagari Numeral and Character Database for Offline Handwritten Character Recognition", Hindawi Publishing Corporation, *Journal on Applied Computational Intelligence and Soft Computing*, DOI: 10.1155/2012/871834 Volume 2012.
- 4. Vikas J. Dongre, Ramkrishna V. Yenkar, Vijay H. Mankar, "Interactive Learning through Hands-on Practice using Electronic Mini Lab (EML): a Case Study", *Journal of engineering, science, and management education(JESME)*, Vol. 5 pp 357-362, Jan-Mar 2012.
- 5. Vikas J. Dongre, Vijay H. Mankar, "Devanagari Handwritten Numeral Recognition using Geometric Features and Statistical combination Classifier", *International Journal on Computer Science and Engineering (IJCSE)*, Vol. 5 No.10, PP. 856-863, Oct 2013.
- 6. Vikas J. Dongre, Ramkrishna V. Yenkar, Vijay H. Mankar, "Innovative Improvements in Electronics Engineering Laboratory Education using Electronics Mini Lab (EML)", *ISTE Journal of Technical Education* vol 37, July- Sept 2014

iii) PAPERS PUBLISHED IN INTERNATIONAL AND NATIONAL CONFERENCES /SEMINARS:

- 1. Vikas J Dongre, Vijay H Mankar, "Electronic Mini-Lab (EML): A Boon for Skill based Electronic Engineering Education," in *International Conference on Education Informatics*, EduMatics-2010, May 22-23, 2010.
- 2. Vikas J Dongre, Vijay H Mankar, "Segmentation of Devanagari Documents", *1st International Conference, ACITY* Chennai, India, pp 211-218, 15-17 July 2011.
- Vikas J. Dongre, Vijay H. Mankar, "Devanagari Offline Handwritten Numeral and Character Recognition using Multiple Features and Neural Network Classifier", 2nd International Conference on Computing for Sustainable Global Development (INDIACom), 2015, pp. 425-431.