



Mechkul Manoj Ashok

Assistant Professor, E&TC Department.

ME Electronics

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Area of Interest(s): PLC Automation

Education:

- M.E (Electronics),JNEC,BAMU, Aurangabad
- B.E (Instrumentation), D. N. Patel College of Engineering Shahada, NMU University
- Diploma in Instrumentation Government Polytechnic Jintur, (MSBTE)

Experience:

- Assistant Professor SNJB's KB Jain College of Engineering, Chandwad, since 1st July 2006.
- Software Development Engineer, Vega Controls Pvt. Ltd Pune 15th Feb 2006 to 21st June 2006
- Project Engineer, Cybernetik Technology Pvt.Ltd.Pune.1st July 2003 to 9th Feb 2006

Courses / Subjects Involved With :

1. PLC and Automation
2. Control System
3. Electronic Product Design
4. Mechatronics
5. Basic Electronics
6. Electronics and Electrical Engineering
7. Employability Skills In Electronics Design

Publications:

National Conference:

1. Mechkul Manoj and Kishor Bhadane on "FACTS- Flexible AC Transmission System" in ORION 08 on 29th and 30th 2008 at PREC Loni
2. Mechkul Manoj and Pravin Dhulekar on "SEGWAY Electronic Personal Transport system" in ORION 08 on 29th and 30th 2008 at PREC Loni
3. Mechkul Manoj on "A digitally Programmable Temperature Controller based on PLC" in Technoevolution-2K9 on 29th January 2009 at AVCOE Sangamner

International Conference

1. Manoj A. Mechkul, B. T. Deshmukh “Positioning for photovoltaic array for maximum power” ICRTEET 2012
2. Tejas R. Bakliwal, Prof. Manoj A. Mechkul “Automated Poka Yoke system for Gear shaft assembly” ICRTEET 2015, 2-4 July 2015
3. Mr. Shashikant D. Shirsat, Mr. M.A.Mechkul, Dr.Abhay Wagh, “FPGA based Adaptive Front Light System (AFLS)” ICRTEET 2015, 2-4 July 2015
4. Rohini B. Jadhav, Prof. Manoj A. Mechkul, “On-line Interactive data acquisition & control system for agricultural applications”, ICRTEET 2015, 2-4 July 2015
5. Sumeet S. Bedekar, Manoj A. Mechkul, “ IOT based automated irrigation system”, ICRTEET 2015, 2-4 July 2015
6. Mayuri R. Jain,Ashvini V. Khairnar, Himani N. Shah, Prof. M. A. Mechkul, “ADAPTIVE TRAFFIC SIGNALLING SYSTEM”, ICRTEET 2016, 28-30 April, 2016 Publishedd in IJMTER e-ISSN No.:2349-9745
7. Purva N. Authankar, Manoj A.Mechkul, “Development of Embedded PLC with the application of Irrigation System”, ICRTEET 2016, 28-30 April, 2016 Publishedd in IJMTER e-ISSN No.:2349-9745
8. Poonam J. Chavan, Manoj A. Mechkul, “IoT Based Water Quality Monitoring”, ICRTEET 2016, 28-30 April, 2016 Publishedd in IJMTER e-ISSN No.:2349-9745
9. Ravindra.S.Solunke, Prof.M.A.Mechkul, “Power factor improvement using Arm11 microcontroller”, ICRTEET 2016, 28-30 April, 2016 Publishedd in IJMTER e-ISSN No.:2349-9745
10. Manoj A. Mechkul, Aditya A. Jain, Dhananjay J. Pawar, Ramprasad M. Gawande, “A Review on Use of Wireless Sensor Network for Pest Control in Agricultural Field”, ICRTEET 2018, 30-31 May 2018, Published in IJREAM, ISSN : 2454-9150
11. Dhananjay J. Pawar, Ramprasad M. Gawande, Manoj A. Mechkul, Aditya A. Jain, “Deserted Object Detection by Means of Temporal Consistency Modeling”, ICRTEET 2018, 30-31 May 2018, Published in IJREAM, ISSN : 2454-9150
12. Aditya A. Jain, Manoj A. Mechkul, Dhananjay J. Pawar, Ramprasad M. Gawande , “Mind Control Smart Car”, ICRTEET 2018, 30-31 May 2018, Published in IJREAM, ISSN : 2454-9150
13. Tejashri P. Suryawanshi, Prof. M. A. Mechkul, “Attendance Recording System and Analysis”, ICRTEET 2018, 30-31 May 2018, Published in IJREAM, ISSN : 2454-9150

International Journal:

1. Manoj A. Mechkul, B. T. Deshmukh “Solar Panel Efficiency Improvement”, IJEEER,ISBN:2250X-115X,3.756
2. Manoj A. Mechkul, B. T. Deshmukh “Fresnel Lens & Tracking”, IJECET,ISBN:0976-6464-0976-6472
3. Shirsat Shashikant, Mechkul M.A. “Adaptive Front Light System”, IOSR Journal of Electronics and Communication Engineering, e-ISSN: 2278-2834, p-ISSN: 2278-8735 PP 05-09

4. Mr. Shashikant D. Shirsat, Mr. M.A.Mechkul, Dr.Abhay Wagh, “FPGA based Adaptive Front Light System (AFLS)”International Journal of Modern Trends in Engineering and Research, e-ISSN No.:2349-9745, Date: 2-4 July, 2015
5. Mr. Shashikant D. Shirsat, Mr. M.A.Mechkul, Dr.Abhay Wagh, “Adaptive Front Light System (AFLS)”IJSRD - International Journal for Scientific Research & Development Vol. 3, Issue 04, 2015 ISSN (online): 2321-0613
6. Rohini B. Jadhav, Prof. Manoj A. Mechkul, “On-line Interactive data acquisition & control system for agricultural applications”, IJSRD - International Journal for Scientific Research & Development Vol. 3, Issue 05, 2015 ISSN (online): 2321-0613
7. Sumeet S. Bedekar, Manoj A. Mechkul, Sonali R. Deshpande “ IOT based automated irrigation system using ARM Cortex M4”, IJSRD - International Journal for Scientific Research & Development Vol. 3, Issue 05, 2015 ISSN (online): 2321-0613
8. Sumeet S. Bedekar, Manoj A. Mechkul, Sonali R. Deshpande “IOT based automated irrigation system”, IJSRD - International Journal for Scientific Research & Development Vol. 3, Issue 04, 2015 ISSN (online): 2321-0613
9. Poonam J Chavan, Manoj A Mechkul, “Analyzing Quality of Water in River using IoT”, Journal of Power Electronics and Devices Volume 2 Issue 2
10. R.S.Solunke, Prof. M.A. Mechkul, “Power Factor Improvement using Arm 11 Microcontroller”, International Journal for Research Trends and Innovation (IJRTI) , 2017, Volume 2, Issue 1 ISSN: 2456-3315
11. R.S.Solunke, Prof. M.A. Mechkul, “POWER FACTOR IMPROVEMENT USING ARM 11 MICROCONTROLLER”, International Journal of Modern Trends in Engineering and Research (IJMTER) Volume 04, Issue 1, [January– 2017] ISSN (Online):2349–9745; ISSN (Print):2393-8161
12. Priya Y. Bhore, M. A. Mechkul, “Resolving Vehicle Emissions in Cities by Maximum Spanning Tree Algorithm based on Internet of Things”, Journal of Signal Processing Volume 2 Issue 2
13. Pralhad B. Thakare, M. A. Mechkul, “Electronics solid state voltage regulating relay for On load tap changer distribution transformer for AVR (Automatic voltage regulation)”, IJMTER, Volume 4, Issue 6, June 2017. ISSN (Online):2349–9745; ISSN (Print):2393-8161
14. Renuka Lodha, M. A. Mechkul, “Human Emotion Recognition By Using ANN” International Journal of Computer Applications, Volume 170, No. 10, 11-14, July 2017, doi 10.5120/ijca2017914909
15. Khan Rabiya, M. A. Mechkul, “Multiple Sensor fusion for moving object detection and tracking”, International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 07 | July -2017, e-ISSN: 2395-0056, p-ISSN: 2395-0072
16. Bacchav Jayakshi, M. A. Mechkul, “Smart Parking System”, ”, International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 07 | July -2017, e-ISSN: 2395-0056, p-ISSN: 2395-0072
17. Priyanka Chandrakant Shelake, M. A. Mechkul, “Testing and Monitoring Agricultural Soil using Precision Farming”, IJRASET, Volume 7, Issue VII, July 2019, ISSN 2321-9653

Books Published:

1. “Basic Electronics and Mechatronics”, Vision Publications Pune, ISBN:978-93-5016-193-7

M.E. Students Guided:

1. Mr. Shashikant Shirsath
2. Mr. Sumeet Bedekar
3. Ms. Rohini Jadhav
4. Ms. Purva Authankar
5. Ms. Poonam Chavan
6. Ms. Priya Bhore
7. Mr. Ravindra Solunke
8. Mr. Pralhad Thakare
9. Ms. Renuka Lodha
10. Ms. Rabia Khan
11. Ms. Jayakshi Bacchav
12. Ms. Tejashri Suryawanshi
13. Ms. Priyanka Shelake

Expert Lectures Delivered :

1. “PLC” SNJB’s HHJB Polytechnic Chandwad on 17th September 2014
2. “Hydraulics and Pneumatics” for TY students of Institute Of Engineering & Technology Kannad on 2/5/2021
3. PLC Basics, Ladder Programming for students of Sau. Sundarabai Manik Adsul Polytechnic Chas Dist. Ahemednagar on 2/6/2021

Workshops / Seminar / STTP Conducted

1. Workshop on “PLC Programming” at SNJB’s LSKBJ COE for SNJB’s HHJB Polytechnic Chandwad on 5th and 6th October 2015
2. Seminar on “PLC Programming” at SNJB’s LSKBJ COE for Nandgaon, Manmad and Malegaon Polytechnic students on 8th October 2015
3. Workshop on PLC Gurukul Polytechnic Nandgaon, KBH Polytechnic Malegaon and Shejwal Polytechnic Manmad on 17th September 2016
4. Workshop on PLC Gurukul Polytechnic Nandgaon, KBH Polytechnic Malegaon and Shejwal Polytechnic Manmad on 8th September 2018
5. Workshop on PLC Gurukul Polytechnic Nandgaon, KBH Polytechnic Malegaon and Shejwal Polytechnic Manmad on 11th September 2019

Workshops / Seminar / STTP Attend:

1. Syllabus detailing workshop on Mechatronics organized by Pune University on 2nd September 2006 at NDMVP's COE Nashik
2. Mission 10X organized by Wipro on 7th to 11th September 2009 at SNJB's LSKBJ COE Chandwad
3. Syllabus detailing workshop on Control System organized by Pune University on 13th July 2013 at MMIT Lohgaon, Pune
4. State Level Seminar on Research trends in communication Engineering, signal processing, Advance Computing on 20th and 21st January 2012 organized by SNJB's LSKBJ COE Chandwad
5. Syllabus detailing workshop on Electronic Product Design organized by SPPU on 13th July 2012 at PVG COE Pune
6. Central Audit Workshop Organized by SPPU on 16th March 2013 at MES's NVIMSR Pune.
7. Workshop on Making Presentation with LATEX on 9th April 2013 organized by SNJB's LSKBJ COE Chandwad
8. NSS Orientation Course Organized by Govt. of India ETS Centre Ahemadnagar on 15th to 21st July 2013 at Ahemadnagar College Ahemadnagr
9. Faculty Orientation workshop on Control System Organized by SPPU on 2nd to 7th December 2013 at DCOER Pune
10. Workshop on LATEX on 24th and 25th October 2016 organized by SNJB's LSKBJ COE Chandwad
11. One Day Certificate Program on "Intellectual Property Management and Patent Life cycle Management" By Krishna and Saurastri Associates Pune organized by SNJB's LSKBJ COE Chandwad on 24th April 2017.
12. NPTEL Certification in Elite category with Full FDP on "Introduction to Research"
13. Syllabus orientation workshop on PLC and Automation organized by SPPU and VIT Pune on 21/12/2018
14. FDP on Leadership organized by Udaan Foundation and SNJB on 11/6/2019 to 12/06/2019
15. FDP on Mechatronics, Manufacturing Automation & Interdisciplinary Applications organized by MET Institute of Engineering Nashik on 22/8/2019 to 24/8/2019
16. FDP on Cyber Security organized by Shivaji University Kolhapur and SNJB on 25/11/2019 to 30/11/2019
17. FDP on Theory, Operation and Applications of Transducers and Actuators in Industry organized by National Institute of Teachers' Training and Research Kolkata on 30/12/2019 to 3/1/2020
18. FDP on Research Methodology and Techniques organized by Sandip Institute of Engineering and Management Nashik on 4/7/2020 to 6/7/2020
19. One Week National Level Online Faculty Development Program on Recent Trends in Mechatronics and Automation organized by NBN Sinhgad School of Engineering, Ambegaon (Bk) Pune, on 30-06-20 to 4/7/2020
20. Two week FDP on Research Opportunities in Electrical Engineering organized by GOVERNMENT COLLEGE OF ENGINEERING, KARAD on May 7-16, 2020

21. One week FDP on Pedagogical Techniques in Electronics and Electrical Engineering organized by Department of Electronics Engineering, Walchand College of Engineering, Sangli on 10/8/20 to 14/8/2020
22. Training Program of Mechatronics Lab experiments with virtual kits organized by Dept. of E&TC PICT Pune on 6/10/20 to 10/10/20
23. STTP on Digital Skill Development for Professionals organized by Jayawant Shikshan Prasarak Mandal's (Jspm's) Bhivarabai Sawant Institute Of Technology And Research, Wagholi Pune and AICTE on 7/12/2020 to 12/12/2020
24. Online Faculty Orientation Workshop on SE E&TC Revised Syllabus 2019 course for the subject Control System organized by BOS E&TC, SPPU and Zeal College of Engineering Pune on 18/1/2021 to 20/1/2021
25. Workshop on Project Based Learning organized by Vishwakarma Institute of Technology, Pune and BOS - E&TC Engineering, Savitribai Phule Pune University on 23/1/2021
26. NBA Awareness workshop organized by Association of the Managements of Un-aided Engineering Colleges (Maharashtra) on 11/5/2021 to 14/5/2021
27. FDP on Emerging Trends in Industry organized by NDMVP's KBT COE Nashik on 18/5/2021 to 22/5/2021
28. FDP on Advances in SCADA & 5 G Technology organized by Sir Visvesvaraya Institute of Technology, Nashik during 5/7/2021 to 9/7/2021

Administrative Responsibilities:

1. Samarth Bharat Abhiyan Coordinator during 2007-2008
2. Student Health Checkup Coordinator for college during 2006-2008.
3. EESA coordinator during 2007 to 2010 in E & TC Department
4. Sr. Supervisor at Matoshri College of Engineering Nashik during 4th to 11th June 2011
5. Sr. Supervisor at SNJB's LSKBJCOE Chandwad during 27th November 2012 to 4th December 2012
6. Assistant NSS Programme Officer during 2012-2013
7. NSS Programme Officer during 2013-2015
8. Sr. Supervisor at SNJB's Arts, Commerce and Science College Chandwad during 17th November to 1st December 2014
9. ICRTET 2012, 2013, 2014, 2015, 2016, 2018 Session Coordinator
10. ICRTET 2016 Track Chair
11. Departmental Project Coordinator Since July 2015 to 2019
12. Departmental NAAC Coordinator Since March 2016 to Feb. 2020
13. Institute AICTE-CII Survey coordinator since 2017
14. Department DSE admission coordinator since 2017
15. Institute Anti-ragging Committee Secretary since 2018
16. Institute Anti-ragging Squad Chairman since 2018
17. NBA Criteria 2 coordinator since 2018
18. Department Academic Coordinator since June 2018

19. Department NBA Program Coordinator since Feb 2020
20. Sr. Supervisor at SNJB's LSKBJCOE Chandwad during second semester Insem examination in March 2020
21. Institute Coordinator, Covid 19 Preventive Protocol committee since 2020

Achievements/Awards/ Any other Information:

- Organized Blood Donation camps in SNJB in the year 2012, 2013 and 2014 and collected 302, 236 and 411 Blood Bags
- Coordinated Excavation work carried out and excavated 2987 tractors soil in Rajderwadi Dam in Rajderwadi village with the help of staff members and villagers during May 2017
- Felicitated by Arpan Blood Bank Nashik for organizing Blood Donation Camp.
- Felicitated By Vyankatesh Nagari Patsanstha for Contribution in education.
- Was invited as a guest to monitor the PLC Programming Activities of students at JSPM' Jaywantrao Sawant College of Engineering Hadapsar, Pune on 12/6/2021

Professional Membership:

- Member of Institute of Engineers: Member ID: M-1571685