


<b>Ajay K Yadav</b>					
<b>Designation</b>		Assistant Professor			
<b>Department</b>		Electronics & Instrumentation Engineering			
<b>Address</b>	<b>Campus</b>	EI Engineering, F.E.T., M.J.P. Rohilkhand University, Bareilly (U.P.) -243006			
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<b>Professional Networking IDs</b>		LinkedIn: <a href="https://www.linkedin.com/in/ajayyadu">ajayyadu@gmail.com</a> Twitter: @yaduajay			
<b>Educational Qualification</b>					
<b>Course/Degree</b>	<b>Institution</b>	<b>Year</b>	<b>Details/Subject</b>		
Ph.D.	IIT, Delhi	2025	Thesis submitted		
M.E.	NITTTR, Chandigarh	2016	Instrumentation & Control		
B.E.	University of Rajasthan, Jaipur	2006	Electronic Instrumentation		
<b>Career Profile</b>					
<b>Organization / Institution</b>		<b>Designation</b>	<b>Duration</b>	<b>Nature of Duties</b>	
F.E.T., MJP Rohilkhand University		Assistant Professor	16 Year	Academic & Administrative	
<b>Research Interests / Specialization</b>					
Sensor and Instrument development, Embedded Systems					
<b>Research Experience in Years: 03</b>					
<b>Resear cher/ Expert ID</b>	<b>Scopus</b>	<b>Orchid</b>	<b>Publons</b>	<b>Vidwan</b>	<b>G-Scholar</b>
	ajayyadav@mjpru.ac.in	<a href="https://orcid.org/0000-0002-3514-6611">https://orcid.org/0000-0002-3514-6611</a>	ajayyadav@mjpru.ac.in	165580, ajayyadav@mjpru.ac.in	ajayyadav@mjpru.ac.in
<b>Teaching Experience: 15 Years</b>					
<b>Subjects/Courses Taught</b>					
Analog Electronics, 8051 Microcontroller & Embedded System, Linear Integrated Circuits, Transducers					

**Publications /Academic Activities (Numbers Only)**

Research Papers Published in International Journals	09
Papers Presented in Seminars/ Conferences	10
Seminars/ Conferences Organized	02
Seminar/ Conferences Attended	30
Research Projects (Completed)	01
Resource Lectures Delivered	04

**Details of Publications /Academic Activities****Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals**

Year	Title	Name of Journal	ISSN No
August 2024	Innovative sensor design for reliable detection of formaldehyde adulteration in milk	Sensors and Actuators A: Physical Elsevier	<a href="https://doi.org/10.1016/j.sna.2024.115448">https://doi.org/10.1016/j.sna.2024.115448</a>
Dec 2022	Key Milk Adulterants in India and their Detection Techniques: A Review	Food Analytical Methods, Springer	<a href="https://doi.org/10.1007/s12161-022-02427-8">https://doi.org/10.1007/s12161-022-02427-8</a>
January 2020	A review of ultrasonic detection techniques for identifying adulterants in liquids	Webology, vol. 7, 2020	
June 2018	Implementation of an Automatic Irrigation System: An Advanced Approach	International Journal of Research Volume VII, Issue VI, June/2018 pp. 771-776	2236-6124
Jan-April, 2018	Analysis of Remote Sensed Data Using Neuro- Fuzzy Algorithm: A Case Study of Hyderabad Region	Turkish Journal of Computer and Mathematics Education Vol.09 No.01 (2018), 181- 190	E-ISSN 1309-4653
Jan-April, 2018	Model Predictive Control Design for SISO LTI system subjected to bounded constraints	Turkish Journal of Computer and Mathematics Education Vol.09 No.01 (2018), 170- 180	E-ISSN 1309-4653
Jan-June 2015	An Advanced Home Automation System Using Mobile Phone	International Journal of Electrical and Electronics Engineers (IJEET), Volume 07, Issue 01, Jan- June 2015	ISSN- 2321-2055 (E)
Jan-June 2015	Controlling Of Devices Through Voice Recognition Using MATLAB	International Journal of Electrical and Electronics Engineers (IJEET), Volume 07, Issue 01, Jan- June 2015	ISSN- 2321-2055 (E)
July-Dec 2013	A New Approach to Reduce the Delay with Balanced Hardware Requirement in SAD Technique	International Journal of Research, Volume 2, Issue II, pp 225-229 July-Dec/2013	2236-6124

## Seminar/Conference Presentations

- Presented A Paper on Development of a Home-scale Prototype to Detect Preservatives in Milk, at IEEE APSCON-2025 at IIT Hyderabad.
- Presented A Paper on Evaluating Impedance and Phase Angle for Milk Formaldehyde Detection, at IEEE APSCON-2024 at BITS Goa.
- Presented A Paper on Green Energy Evolution: Biological Models Shaping Efficiency and Sustainability, at 38th National Convention of Production Engineers & National Conference on Green and Bio-inspired Manufacturing- The Way Forward, MJPRU Bareilly.
- Presented A poster on Analysis of Electrical Parameters for Formaldehyde Estimation in Milk, at the 13th NIZO Dairy Conference 2023 Papendal, The Netherlands.
- Presented A poster on Impedance Analysis for detecting Milk Adulteration using Nickel-based Sensor, at Taiwan-India Exchange workshop (ICCNTSD), IIT Delhi.
- Presented A Paper on Rural Entrepreneurship: A Catalyst for Economic Growth and Social Development, at National Conference on Entrepreneurship Development: The Road to Five Trillion, MJPRU Bareilly.
- Presented A Paper on Design And Implementation Of Wi-Fi Based Home Automation System, in IEEE sponsored IoT-SIU-2017, at MJPRU Bareilly.
- Presented A Paper on Controlling Of Devices Through Voice Recognition Using MATLAB, at the 2nd International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2015), MJPRU Bareilly.
- Presented A Paper on Design and Development of an Advanced Irrigation System Using GSM Technology, Recent Advances and Trends in Electrical Engineering (RATEE), at NITTR Chandigarh in 2014.
- Presented A Paper on Role Of Model Predictive Control (MPC) System In the Paper Industry, National Seminar on Software Application in Engineering & Technology (SAET-2012), at MJPRU Bareilly.

### Invited as Resource Lectures Person/Examiner/Expert

Resource person	Title of Lecture	Detail of Event	Date	Institution
Ajay Yadav	Role of Digital Technology in the field of Education	Invited Lecture	08/03/2013	RBMI, Bareilly
Ajay Yadav	Energy Management System	Seminar	14/04/2014	PPGI, Bareilly
Ajay Yadav	Microcontroller Based Automation System	Invited Lecture	27/04/2016	RBMI, Bareilly
Ajay Yadav	Invited Lecture on IoT	Conference	24/02/2018	Birla Institute of Applied Sciences

### Seminars/Conferences/Workshops organization

- Organizing Secretary, Webinar on Industrial IoT", at MJPRU Bareilly, 07-06-2020
- Organizing Secretary, Webinar on "Detecting Addictive Use of Digital Technology Using AI", at MJPRU Bareilly, 05-06-2020
- Faculty Coordinator, One week Workshop on "Signals, Sensors and Measurement Systems", at BMS College of Engineering Bangalore, 22-07-2019
- Coordinator, Workshop on "Alternate in Education", at MJPRU Bareilly, 23-03-2018
- Organizing Secretary, Orientation Program for first-year students, at MJPRU Bareilly, 14-07-2017
- Member, Organizing Committee, 2<sup>nd</sup> IEEE International Symposium on IoT: Smart Innovation and Usage IoT-SIU-2017.
- Member, Technical Committee, ICAREMIT-2015.
- Coordinator, "Industry Institute Interaction Workshop", at MJPRU Bareilly, 24-10-2013
- Coordinator, Workshop on "Embedded System" & "Industrial Automation", at MJPRU Bareilly, 27-02-2013

### Projects Detail

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
2019	Performance analysis and PID controller-based speed control of AC motor using Virtual Environment (In collaboration with Dr Santosh Desai of BMC College Bangalore)	TEQIP-III	2.21L	April-2019	September 2019

<b>Administrative Positions/Assignments Held</b>			
<b>Post</b>	<b>Organization</b>	<b>Duration</b>	
		<b>From</b>	<b>To</b>
Assistant Dean	College Development Council (CDC), MJP Rohilkhand University.	1 June 2024	Present
Assistant In charge	Horticulture and sanitation, MJP Rohilkhand University.	5 September 2024	Present
Member	Examination Committee, Samarth, MJP Rohilkhand University	9 July 2024	Present
Member	IDP and Ranking Cell, MJP Rohilkhand University	September 2023	Present
Assistant Warden	New Boys Hostel, MJPRU	18 May 2017	31 August 2019
Assistant Dean	Student Welfare, MJP Rohilkhand University	12 July 2018	31 August 2019
Coordinator	Unnat Bharat Abhiyan MJP Rohilkhand University	18 October 2018	14 September 2019
Timetable In-charge	Department of EI Engineering, MJP Rohilkhand University	July, 2009	June, 2011
		July, 2013	June 2011
TnP Coordinator	Department of EI Engineering, MJP Rohilkhand University	July, 2012	14/09/2020
ACS	Evaluation Centers, MJP Rohilkhand University	May 2016, May-June 2017, June 2018, January 2018, Oct, 2018	
ACS	Entrance Examination of MJPRU and CPMT, B.Ed. etc	May-June 2013 & 2014, May 2019	
ACS	End Semester Examination, MJP Rohilkhand University	May 2009 & Feb 2010, June 2012, Jan 2013, May 2013, June 2014, Dec 2014 & June 2015, May 2017.	
Program Officer	NSS, MJP Rohilkhand University	31 January 2015	1 September 2019

### **Memberships of Academic/Professional Bodies**

- IEEE Member of Instrumentation and measurement Society (97897564)
- Life Member of Instrumentation Society of India (LM-1907)-2011
- Life Member of Indian Science Congress (L33302)

### **Participation in Community Service / Exchange Program / Consulting Activity**

- General Secretary, Khushhali Foundation (works for integrated rural development, plantation and environment conservation and school education program for Gadhiya lohar community).
- General Secretary, MJP Rohilkhand University Teachers Association (MJPRUTA).
- Vice President, MJP Rohilkhand University Teachers Association (MJPRUTA).
- Coordinator Indradhanush (evening school initiative for underprivileged children at MJP Rohilkhand University).
- Organized several blood donation camps for IMA and Government Hospital Blood Bank, Bareilly.



(Ajay Kumar Yadav)