




## Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Sourabh	Last Name	Pathak	Photograph
Designation	Guest Faculty					
Department	Electronics & Communication Engineering					
Address (Campus)	Deptt. of ECE , FET , MJPRU Bareilly 243006					
(Residence)	Swantrata Sangram Colony Jogi Nawada Road H.No. A-02 Bareilly					
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Web-Page						
Educational Qualifications (Graduation Onwards)						
Course/Degree	Institution	Year	Details/Thesis Topic/Subjects			
B.Tech. (ECE)	Teerthanker Mahaveer University, Moradabad	2013	Power Line Carrier Communication			
M.Tech.(ECE)	Galgotias University, Noida	2015	History Based Contention Window Control (HWCBC) by IEEE 802.11 MAC Protocol to Minimize the Hidden Node Problem in Wireless Network.			
Ph.D. (ECE)	IFTM University, Moradabad	Jan. 2022	Analysis of Low Energy Adaptive Clustering Hierarchy Protocol to increase the performance of Wireless Micro sensors Network.			
Career Profile						
Organization / Institution	Designation	Duration	Role			
SSITM Aligarh.	Assistant Professor	03/02/2017 to 31/05/2017	Teaching			
Department of Electronics & Communication engineering FET, MJP Rohilkahnd University Bareilly during	Guest Faculty	session 2017-18, session 2018-19	Teaching			
Invertis University, Bareilly	Assistant Professor	11/01/2020 to 27/11/2021	Teaching			
Department of Electronics & Communication engineering FET, MJP Rohilkahnd University Bareilly during	Guest Faculty	session 2021-2022. (in Present Time)	Teaching			
Research Interests / Specialization						
Wireless Sensor Network Mobile Ad-hoc Network Digital Image Processing						

Teaching Experience (Subjects/Courses Taught)									
Radar Signal and system EMFT Mobile Communication WSN Satellite Communication Microwave Engineering									
Honors & Awards									
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	-	Research Papers Published in International Journals	14	Papers Presented in Seminars/ Conference	3	Seminars/ Conferences Organized		Research Projects (Completed)	
Books (Co-authored)	-	Research Papers Published in Other Journals	-	Seminar/ Conferences Attended	3	Workshops Organized		Research Projects (Ongoing)	
Books (Edited)	-	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	-	Sessions Chaird in Seminars/ Conferences		Membership of Academic/ Professional Bodies		Foreign Countries Visited for Academic Assignments	
Chapters in Edited Books	-			Resource Lectures Delivered					

Details of Publications /Academic Activities (2010 Onwards)				
(a) Books / Monographs				
Year of Publication	Title	Publisher	ISBN	Co-Author (s) (if any)
(b) Papers Published in Indexed/ Peer Reviewed Journals				
Year of Publication	Title	Journal	ISSN/ Indexing	Co-Author (s) (if any)
Vol.-6, Issue-2, 2019	Analysis of Low Energy Adaptive Clustering Hierarchy Protocol to increase the performance of Wireless MicrosensorNetwork	Journal of Applied science and Computations (JASC Journal)	1076-5131	
Vol.-6, Issue-3, 2019	Recovery and Detection of coverage Holes using hole patching algorithm in Wireless sensor network	CIKITUSI Journal for multidisciplinary journal	0975-6876	
Vol.-5, Issue-10, 2017	Analysis ofRTS/CTSMechanism toMinimize Hidden Node Problem Using Media Access Control Protocol	International Journal for Research in applied science and Engineering Technology(IJRASET)	2321-9653	
Vol.-7, Issue-3, 2018	An application and architecture of Low Energy Adaptive ClusteringHierarchy Protocol in Wireless Microsensor Networ	International Journal of Engineering, Science and Mathematics	2320-0294	
Vol.-5, Issue-8, 2018	To increasethe performance of LowEnergy Adaptive Clustering Hierarchy Protocolusing cluster techniquein WirelessMicrosensorNetwork	Journal of Emerging Technology and innovation Research (JETIR)	2349-5162	
Vol.-9, Issue-1, 2020	A specific structure of protocol to increase the system life time of WSN	International Journal of Recent technology and Engineering(IJRTE)	2277-3878	
Vol.-14, Issue-3, 2020	An Energy Efficient modified LEACH protocol is used for IoT applicationwith software defined Wireless sensor network	Journal of Xidian University	1001-2400	

Vol.-9, Issue-2, 2020	To Detect and Recover the Holes in Boundary Critical Point(BCP)in Wireless Sensor Networks	Journal of Scientific Computing	1524-2560	
Vol.-9, Issue-6, 2019	A dynamic routing algorithm for software defined wireless sensor network”	PRAMANA Research Journal	2249-2976	
Vol.11, Issue-6, 2020	To identify and recover the holes using node based detection algorithm in wireless sensor network	Proteus Journal	0889-6348	
Vol.-7, Issue-11, 2020	An analysis of Particle Swarm optimization (PSO) to tackle the NP hard problem in Wireless Sensor Network	GIS Science Journal	1869-9391	
Vol.-7, Issue-12, 2021	To improve the Efficiency and Efficient Energy of Wireless Sensor Network using Non-linear Weight Particle Swarm Optimization Algorithm (NWPSO)	IJM TST	2455-3778	
Volume 5, Issue 12, December (2017	Analysis of Image Enhancement Process in Digital Image Processing using MATLAB	everscience publication	2454-6410	
Volume 05, Issue 01, [January– 2018]	ANALYSIS OF FOURIER TRANSFORMATION ON IMAGE ENHANCEMENT PROCESS IN DIGITAL IMAGE PROCESSING USING MATLAB	IJMTER	2349-9745	

#### (c) Articles

“ANALYSIS OF TRAFFIC CONTROL IN WAVELENGTH DIVISION MULTIPLEXING (WDM) ROUTING” WJERT, Sourabh Pathak , 2017, Vol. 3, Issue 6, XX -XX.

#### (d) Seminar/Conference Presentations

1. “An analysis of Particle Swarm optimization (PSO) to tackle the NP hard problem in Wireless Sensor Network” ICRiset-2020, Invertis University, Bareilly.Sourabh Pathak, Dr Avinash Kumar ICARE MIT (Invertis University), 2020
2. “Analysis of Low Energy Adaptive Clustering Hierarchy Protocol to increase the performance of Wireless Microsensor Network”, Proceeding of International conference on “ACADEMIC RESEARCH IN ENGINEERING MANAGEMENT AND INFORMATION TECHNOLOGY”(ICARE MIT-2018) 17-19 FEB-2018 Sourabh Pathak, Dr Avinash Kumar, ICRiset (MJPRU) 2018
3. To improve the efficiency and efficient energy of wireless sensor network using non-linear weight particle swarm optimization algorithm (NWPSO). Sourabh Pathak, Dr Avinash Kumar ICARE MIT (Invertis University) 2021

#### (e) Resource Lectures Delivered

#### (f) Seminars/Conferences/Workshops Organized

#### (g) Public Service / University Service / Consulting Activity

#### (h) Memberships of Academic/Professional Bodies

#### Projects (With Title, Year, Grants, Funding Agency and Collaborations)

-

#### Administrative Positions/Assignments Held

-
Academic Foreign Visits
-
Any Other Details
I have attended <b>Eight</b> Faculty Development program and <b>three</b> workshop in various field as Entrepreneurship, Electrical vehicles, research methodology, IoT etc.

Signature of Faculty Member  
(in Hard Copy Only)

**Note: Please submit this file to E-mail ID: [rkg@mjpru.ac.in](mailto:rkg@mjpru.ac.in) through your own E-mail ID.**