



Name: Dr. Chhavi Sharma			
Designation		Assistant Professor	
Department		Electronics& Communication Engineering	
Address	Campus	-	
	Residence	Bareilly, Uttar Pradesh, India	
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Email ID		Personal	yashnaina2015@gmail.com
		University Domain	chhavi.sharma@mjpru.ac.in
Educational Qualifications (Graduation Onwards)			
Course/Degree	Institution	Year	Details/Thesis Topic/Subjects
Bachelor of Engineering	North Maharashtra University, India	2001	Electronics and Communication Engineering
Master of Engineering	Dr. B.R Ambedkar University, Agra, India	2007	Microwave & Radar Engineering
PhD	National Institute of Technology (NIT), Kurukshetra, India	2020	Thesis: "Performance Evaluation of Multicarrier Systems with nonlinear Effects"
Organization / Institution		Designation	Duration
College of Information Technology (CIT), Ghaziabad, U.P India		Lecturer	May 2001-June 2003
Shobhit Institute of Technology (Currently Shobhit University), ModiPuram, U.P, India		Lecturer	August 2003-May 2004
Moradabad Institute of Technology (MIT) U.P, India		Senior Lecturer	August 2004-June 2008



M.J.P.Rohilkhand University Bareilly ,U.P India	Assistant Professor (stage 1)	Aug.2008 – Aug 2013	Teaching				
M.J.P.Rohilkhand University Bareilly ,U.P India	Assistant Professor (stage 2)	Aug.2013 – August 2018	Teaching and research				
M.J.P.Rohilkhand University Bareilly ,U.P India	Assistant Professor (stage 3)	August 2018-till now	Teaching and research				
Research Interests / Specialization							
5G Wireless Communication Systems, Broadband Systems, Multicarrier Waveforms, Optical wireless transmission etc.							
Research Experience in Years : 14							
Researcher/ Expert ID	Scopus	Orchid	Publons	Web of Science	Google Scholar		
	Author ID=57212961420	ORCID: 0000-0002-9350-0316	https://publons.com/researcher/B-6076-2013	ResearcherID: B-6076-201	www.scholar.google.com. https://vidwan.inflibnet.ac.in/profile/421514		
Teaching Experience (Subjects/Courses Taught): 20 years							
Analog & Digital Communication (B.Tech EC& EI), Wireless/ Mobile Communications (B.Tech EC), Satellite Communication (B.Tech EC), Signals & Systems (B.Tech EC) Digital Signal Processing (B.Tech EC& EI), Biomedical Instrumentation (B.Tech EI) Fundamentals of Computer Applications (BCA), Microwave & Radar Engineering (B.Tech EC& EI), Optical Fiber Communication (B.Tech EC), Communication Systems (B.Tech EE), Microprocessor (BCA), Advanced Digital communication (M.Tech)							
Publications /Academic Activities (Numbers Only)							
Books & Monographs (Single Author)	1	Research Papers Published in International Journals	15	Papers Presented in Seminars/ Conferences	18	Seminars/ Conferences Organized	03
Books (Co-authored)	3	Research Papers Published in Other Journals	05	Seminar/ Conferences Attended	25	Workshops Organized	03
Books (Edited)	4	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	10	Sessions Chaired in Seminars/ Conferences	10	Membership of Academic/ Professional Bodies	05
Chapters in Edited Books	6			Resource Lectures	10		

			Delivered			
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(a) Papers Published in UGC Care Listed /Scopus/SCI Indexed/ Peer Reviewed Journals					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2023	A technical Review on visible Light communication System	Omniscient Journal Vol.1, issue 2 page :21-36	2583-7575	--	--
2022	“Performance Enhancement of Generalized Frequency Division Multiplexing using Zadoff-Chu Precoding Scheme”	Turkish journal of Computer and Mathematics Education	1059-1067	--	0.658
2022	Implementation of Reliability Antecedent Forwarding Technique Using Straddling Path Recovery in MANET	Wireless communication and mobile computing	1530-8677	23	2.416
2022	C+F GFDM with polynomial model of HPA	International journal of Electronics and communication Engineering (IJECE)	2348-8549	03	0.5
2022	Generalized frequency Division Multiplexing with TWTA High power Amplifier model	Journal of interdisciplinary cycle Research	022-1945	02	1.0
2019	Out of band leakage performance of Generalized frequency division multiplexing”	Journal of Network Security Computer Network, Volume 5 Issue 1,pp-8-	e-ISSN: 2581-6393	03	0.6

		14.			
2018	Nonlinearity Mitigation in Adaptive Coded OFDM System	Journal of Advanced Research in Dynamical and Control Systems	ISSN:1943-023X	1	0.27
2018	Nonlinearity Mitigation in IM/DD optical OFDM using new SLM scheme	ARNP Journal of Engineering and Applied Sciences,	ISSN 1819-6608	2	0.52
2016	An Improved DSI-PTS for PAPR Reduction of OFDM System	International Journal of Scientific & Engineering	ISSN 2229-5518	1	4.4
2015	Riemann Sequence based SLM with nonlinear Effects of HPA	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)e-ISSN:2278-1676,p-ISSN: 2320-3331	e-ISSN:2278-1676,p-ISSN: 2320-3331	4	1.419
2014	A ZCMT Precoding based PTS technique for PAPR Reduction in OFDM System	International Journal of computer Applications ISSN: 0975 – 8887	ISSN: 0975 – 8887	1	3.12
2012	PAPR reduction using SLM technique with modified Chu Sequence in OFDM system (Co-Author)	Journal of Electronics & Communication Engineering (MITIJEC)	ISSN No. 2230-7664(Print Version) &2230-7672(Online Version)	3	-
2011	PAPR Reduction in OFDM System using Adapting Coding Technique with Pre distortion	WSEAS Transactions of communication	ISSN NO. 1109-2742,pp-255-262	12	-

	Method					
(b) Chapter/Paper Published in Edited Books						
Publication	Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	DOI
International	Computer Communication s and informatics	Improved Riemann Sequence Based selective mapping	IEEE	2023	979-8-3503-4821-7	https://doi.org/10.1109/ICC/CI56745.2023.10128397
International	Advances in Electrical, computing ,communication and sustainable technologies	Performance Analysis of an indoor Visible light communication system using optisystem software	IEEE	2023	978-1-6654-9400-7	https://doi.org/10.1109/ICAE/CT57570.2023.10117680
International	New Approaches in Engineering Research	Performance Evaluation of Nonlinear IM/DD Optical OFDM with new SLM scheme	Book Publisher International	2021	978-93-5547-063-8	---
International	Springer Lecture Notes on Data Engineering and Communications Technologies	A comparison of GFDM and OFDM at same and different spectral efficiency condition	Springer Nature Switzerland	2019	978-3-030-28364-3	https://doi.org/10.1007/978-3-030-28364-3_26
International	Advances in Electrical and Computer Technologies	A Power efficient GFDM system	Springer Singapore	2020	978-981-15-5558-9	- https://doi.org/10.1007/978-981-15-5558-9
International	Innovation in	Need of	MACMILL	2008	0206	-

	Management Practices	Entrepreneurship In Technical Education as a curriculum for growing economy in India	AN Advanced Research Series		3716-7	
International	Trends in VLSI and Embedded Systems	Space Time Block codes for Higher data rates in wireless mobile communication Systems	MACMILLAN Advanced Research Series	2007	ISBN 10:0230-63383-8	-

(c) Books Authored

S. No.	Title of the Book	ISBN No.	Publisher	Whether International / National	No. of Co-authors	Whether you are the main author	Year of Publication
1.	Nonlinearity Mitigation Techniques in Multicarrier Systems	978-81-953268-8-4	Research Culture Society and Publications	International	None	yes	2021
2.	Mobile communication	978-93-5625-200-4	Scientific international	International	02	Second author	2022
3.	Digital Electronics	978-93-5625-170-0	Scientific international	International	03	Second author	2022

4.	Satellite communication	978-93-5625-574-6	Scientific international	International	02	Second author	2023
(d) Patents published							
S.	Patent Title	Name of Applicant(s)	Patent No.	Award	Agency/	Status	
1	Massive IOT traffic flow forecasting using time-aware locality- sensitive hashing enabled by 6g	1)Dr.Bharat Bhushan Agarwal 2) Prof.(Dr) Pankaj Kumar Sharma 3)Dr K.P.Porkodi 4)Dr.V.Muruges 5)Prof. M. Sadhasivam 6)Mrs. Priti Sharma 7) Dr.Chhavi Sharma 8)Mr. Saurabh V Kumar	202211023920 A	Published only	India	Published	
2.	A robust and deep convolutional neural network approach to detect early stages of lungs cancer	1)Dr.Chhavi Sharma Dr. Inamul Hasan Madar 3)Muganda Munir Manini 4)Shanid Malayil 5)Geetanjali Sahu 6)Gita Sahu 7)Lalita Sandey 8)Vaibhav Sarjerao Gawade	20221102461 A	Published only	India	Published	

3.	IOT with Artificial Intelligence Based Decentralized Authentication Modeling scheme in edge using blockchain techniques	1) Ms. Anu Yadav 2)Dr.S.Prakash 3)Mr.Gourav Purohit 4)Mr. Jagadeesh Dandu 5) Dr.Chhavi Sharma 6)Dr. S. Ravichandran 7)Mr. Y. M. Mahaboobjohn 8)Dr. Govinda Rajulu.G 9)Dr.Venkatesan .D 10)Dr. K. Venkata Nagendra	202211022588A	Published only	India	Published
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(e) Invited as Resource Lectures Person/Examiner/Expert

Resource person	Detail of Event	Title of Lecture	Date	Institution
Keynote speaker	World Engineering day	Engineering for A Healthy Planet- Celebrating the UNESCO Engineering Report	4.03.21	B.L Agro Private limited , Bareilly
Invited Lecture	Mission Shakti Program initiated by U.P government and NSS	Role of women in Technical Education	2.03.21	M.J.P.Rohilkhand University Bareilly
Keynote speaker	International Conferences	Recent advancements in the field of wireless communication	18.02.21	RIMT ,Bareilly
Lecture Delivered	World Telecommunication Day	Role of ICT in 5G Scenario	17.05.20	Institution of Engineers Bareilly Local Chapter
Lecture Delivered	RIMDA-2K20	Research and innovation in Multidisciplinary Academics	18 TH -19 TH Dec 2020	Rajshree Institute of Engineering and Management
Lecture Delivered	World Energy Day	Energy Conservation Day	14 .12.16	Institution of Engineers Bareilly Local Chapter
Lecture Delivered	WTISD-2014	Broadband for Sustainable Development	17.05.14	Institution of Engineers Bareilly Local Chapter

(f) Seminars/Conferences/Workshops Organized			
1. Coordinator of National Conference on Advances in Electronics and Communication Engineering (AECE-14), 2014 2. Coordinator of One Week National Workshop/STC on Microwave and Wireless communication, 29 th March-3 rd April 2016. 3. Organizing Secretary of International Symposium on IOT-SIU 2016 on 22-23 April, organised by FET MJPRU Bareilly 4. Organizing Secretary of International Symposium on IOT-SIU by FET MJPRU Bareilly 2018, FET MJPRU Bareilly. 5. Member of organizing team in Online National E-Workshop on “Technological Tools and their management in Online Teaching” held on August 14-21, 2020 organized by M.J.P. Rohilkhand University. 6. Member of Organizing Committee ICNSMH-2016 on 21- 23 Oct 2016 organized by Physics Department MJPRU Bareilly 7. Member, Technical Committee, IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT) , held on March 11-12, 2023 at The Maldives National University, Male City (Maldives) 8. Joint organizing secretary of National Conference on cyber security jointly organized by Institution of Engineers and M.J.P Rohilkhand University Bareilly on Date February 25-27 ,2023			
(g) Administrative Positions/Assignments Held			
Post	Organization	Duration	
		From	To
Coordinator MIS Data feeding TEQIP Project- I	F.E.T M.J.P.R. University	2012	2014
Library Incharge	F.E.T M.J.P.R. University	2012	2018
Member of T&P cell (centre)	F.E.T M.J.P.R. University	2015	2017
Coordinator of extra & co-curricular activities	Department of EC, F.E.T M.J.P.R. University	2012	2018
Exam ACS	F.E.T M.J.P.R. University	2015	2016
Time Table Incharge	Department of EC, F.E.T M.J.P.R. University	2021	Till now
Cultural Coordinator	Department of EC, F.E.T M.J.P.R. University	2021	Till now
BOS Incharge	Department of EC, F.E.T M.J.P.R. University	2022	Till now
Integrated M.tech +Phd Program coordinator	Department of EC, F.E.T M.J.P.R. University	2023	Till now

(h) Seminar/Conference Presentations/Participation

- [1] **Chhavi Sharma**, Pankaj Sharma “Improved Riemann sequence based Selective Mapping (IRSLM) Technique for OFDM system” is presented in IEEE Sponsored International conference on computer communication and informatics (ICCCI 2023) held at Sri Shakthi Institute of Engineering and Technology, Coimbatore on 23-25 Jan 2023
- [2] Shivam, **Chhavi Sharma**, Sumit , Reshav, “Performance Analysis of an Indoor Visible Light Communication System Using Optisystem Software” is presented in IEEE Sponsored Third International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2023) held at the Department of Electrical and Electronics Engineering, Shri Shankaracharya Technical Campus (SSTC), Bhilai, Chhattisgarh, India during 05-06, January 2023.
- [3] **Chhavi Sharma**, Shivam, Pankaj Sharma “Energy Harvesting : A Step towards green energy” is presented in national conference on Strategies for management of Bioresources (NCSMB-2023) sponsored by Directorate of Education , Uttar Pradesh organized by Department of Animal Science , M.J.P. Rohilkhand University Bareilly On March 26-27 ,2023
- [4] **Chhavi Sharma**, S.K Tomar, Arvind Sharma, “Performance of Clipped and filtered GFDM with polynomial model of HPA”, IEEE International conference on opportunities and challenges in Engineering Management and science,(OCEMS2019),Feb.15-16 2019 at RIMT, Bareilly.
- [5] **Chhavi Sharma**, Arvind Kumar , S.K Tomar “ *GFDM: A new waveform candidate for 5G* ” All India seminar on Electronics Design,Technologies & Applications(EDTA-2K18) under the aegis of Institution of Engineers (India) organized by MIT Moradabad on 20-21 April 2018.
- [6] **Chhavi Sharma**, Dushyant Kumar Singh, Anjula singh & Ajay Kumar, “Overview of 5G Technologies and Beyond” International Conference (ICAREMIT) on 21-23TH Feb. 2015.
- [7] **Chhavi Sharma** , Dr. Pankaj Sharma, S.K.Tomar “A ZCMT Precoding based PTS techniques for PAPR reduction in OFDM system” National seminar on Recent Advances in Wireless Networks and Communications(NWNC-2014) Jan 17-18 2014 organized by Government Engineering College Ajmer
- [8] **Chhavi Sharma**, Praveen Kumar, S.K Tomar “Green Technology” National Conference on Advances in Electronics and Communication Engineering(AECE-14) 27-28TH March 2014, organized by Electronics and Communication Department,M.J.P.Rohilkhand University Bareilly
- [9] **Chhavi Sharma**, Pankaj Sharma “National Development and The Role of Media”Role of media National Seminar on Challenges and road Ahead:A Macro-Cosmic Analysis of Sustainable Development Organized by Government Mahila College ,Bareilly (India).1-2 Feb 2014.
- [10] Participated in International Seminar on “Recent Trends in materials sciences-2013(RTMS-13) organized by applied physics, faculty of Engineering & Technology M.J.P.R.University Bareilly Nov.21, 2013.
- [11] **Chhavi Sharma**, S.K.Tomar, A.K.Gupta “ PAPR reduction techniques for multicarrier systems: An overview, National seminar on software applications in engineering and technology (SAET-2012),organized by institute of engineering and technology ,M.J.P.Rohilkhand University Bareilly 17TH Feb 2012 .
- [12] **Chhavi Sharma**, Nilima Singh “Role of Technology for Higher Education in india” National Conference on Scientific and Technological Approach in Higher Education, 2012,

Rampur.

[13] **Chhavi Sharma** , Pankaj Kumar Sharma, S.K.Tomar “ Nonlinear Distortion Reduction for Power Efficiency Improvement in OFDM System by Pre-distortion Technique with SSPA Model using Neural Network, International Conference on Sunrise Technologies (i-COST-2011),SSVPS’s B.S.DEORE College of engineering & polytechnic,Dule,-India, January 13-15,2011

[14] Pankaj Kumar Sharma, R.K. Nagaria, **Chhavi Sharma**, T.N.Sharma, “Nonlinear Distortion Reduction in OFDM System using Nonlinear Capacitance Cancellation Technique ” accepted in International Conference on Advances in Electrical & Electronics Engineering (ICAEEE-2011), MIT ,Moradabad, February 25-26,2011

[15] **Chhavi Sharma**, Nilima Singh “ Role of ICT In Higher Education In India” National Seminar on higher education in india :Present Scenario and Future Prospects , September 18-19-2011,Rampur

(i) Workshop / FDP Attended during last 3 years			
Title	Place / Institution	Duration	Dates
One Week Online Refresher Program On Innovations in Management	M.J.P. Rohilkhand University, Bareilly	One week	16 th Feb 2021 - 22 nd Feb 2021
Faculty Development Programme on Technological Tools and Their Management in Online Teaching	M.J.P. Rohilkhand University, Bareilly	One week	14 Aug. -21 August ,2020
FDP on Wireless Communication Technologies for IoT	E&ICT Academy, Indian Institute of Technology (IIT) Guwahati,	Two weeks	27 July to 07 August, 2020
FDP on Virtual Labs	IIT Roorkee &M.J.P.Rohilkhand University	One week	8 th June – 17 th June
FDP on Wireless communication – Future IOT”	AICTE sponsored	One week	20-25 July 2020
One Week FDP on Recent advances in	sponsored by AICTE organized by	One	13-18 July 2020

Wireless communication and future challenges	Vardhman College of Engineering and Technology , Hyderabad	week		
Two weeks online FDP on “Python”	Organized by JSS Noida & IIT Bombay under spoken tutorial project.	Two weeks	22 June -4 July	
FDP on “ Python Programming”	Organized by RD Engineering College in Association with IIT Bombay (ONLINE)	One week	29 June – 3 July 2020	
FDP on Block Chain	ATAL Academy	One week	2 nd Nov-6 th Nov 2020	
Recent Advancement in communication & wireless networks	NIT Kurukshetra	One week	10 th -15 th Feb 2020	
UGC approved Short term Professional development programme on “Implementation of NEP2020 for University and college teachers” and obtained 80% with A grade .	NEW Delhi	One week	09-17 September 2022	
Short term course on 2D graphics for scientific reporting “ 2DGCR”	Sant Longowal institute of Engineering and Technology Sangrur (Punjab)	One week	July 25-29 2022	
Short term course attended on the topic “ Statistical Modelling and Analysis of Advanced wireless Communication Systems	IIT Indore	One week	17/03/22 TO 23/03/2022	
5 days online training program on “ Cyber attacks and defence	C-DAC Noida	5 days	18th SEP -22 SEP 2023	
(j) Memberships of Academic/Professional Bodies				

<ul style="list-style-type: none"> ➤ Member IEEE ➤ Member of IEEE- Women in Engineering ➤ Life member of Indian Science congress ➤ Corporate Member of Institution of Engineers Bareilly Local Chapter ➤ Associate Member , The Institute of Engineers (India), Kolkata ➤ Life Member , IETE, India ➤ Member of the International Association of Engineers (IAENG) membership number: 63633 ➤ Member of Wireless Communication Technical committee (WTC) ➤ Life member of ISTE
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(k) Awards and recognitions

Name of the Award	Name of the Awarding Body	Whether International/National Level Fellowship Award	Year
Dr. SarvepalliRadhakrisnanBest Faculty Award	Center for Professional Advancement continuous Education	National	2021
Global Teachers award 2021	AKS Education awards	International	2021
Venus International Science and Technology Awards	Venus International Foundation	International	2021
Indo Asian education excellence award 2022	Ratna Prasad Multidisciplinary Research and Educational Society	International	2022

(l) Any Other Details

<ul style="list-style-type: none"> ➤ Got selected in Government Polytechnic as a lecturer in 2008. ➤ Paper Reviewer in National Conference NCEET-2008 at M.I.T,Moradabad ➤ Paper Reviewer of world scientific and Engineering Academy and society (WSEAS) ➤ Paper Reviewer in ICACCA2017 , IEEE conference , held at Dehradun,Uttarakhand ➤ Paper Reviewer in ICACCA2019, IEEE conference GLA Mathura, Uttar Pradesh. ➤ Paper Reviewer in IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT), held on March 11-12, 2023 at The Maldives National University, Male City (Maldives) ➤ Paper Reviewer in 4th IEEE International Conference on Computing, Power, and Communication Technologies (GUCON). September 24-26, 2021 ➤ Reviewer and Member of Technical Committee, 5TH IEEE International Conference on Computing, Power and Communication Technologies (IEEE IAS GUCON) 2022 ➤ Member of Technical Committee, 4th IEEE International Conference on Computing, Power, and Communication Technologies (GUCON). September 24-26, 2021

- **Member of Technical Committee** National seminar on software applications in engineering and technology (SAET-2012), organized by institute of engineering and technology, M.J.P. Rohilkhand University Bareilly 17TH Feb 2012
- **Member of Technical Committee**, International Conference (ICAREMIT) on 21-23TH Feb. 2015 organized by institute of engineering and technology, M.J.P. Rohilkhand University Bareilly 17TH Feb 2012.
- **Member of Newsletter Committee** of Institution of Engineers Bareilly Local Center from 2019 till now.
- **Article published** in a souvenir on 47th Engineers day on the topic **“Impact of internet on Indian Economy” as a subtopic of making Indian engineers world class** 15th Sep. 2014 Published by Institution of Engineers Bareilly Local Centre.
- **Article published** in a souvenir Engineers day on the topic **“Role of Human Values in Technical Education”** 15th Sep 2018 Published by Institution of Engineers Bareilly Local Centre.
- **Started the Departmental activity club** in the Department of EC, FET M.J.P. Rohilkhand University, and Bareilly in 2015.
- **Faculty Coordinator of ELCOM BITS student club of EC Department.**
- **Edited and published** the first **Departmental News Letter** in the Department of EC, FET M.J.P. Rohilkhand University Bareilly during the academic year 2015-16, 20-21 & 21-22
- **Edited** the conference proceedings of National Conference on “Advances in Electronics and Communication Engineering (AECE-14)”, 2014.
- **Editor of American Journal of Science**
- **Article published titled** “Optical wireless communication and internet of things : Future prospects and challenges” in “Shristi” The Souvenir of Institution of Engineers Bareilly local Center on 15TH September **2022**, page 35
- **Article Published titled** **“Social Engineering : Exploiting Human Psychology to Compromise security”** in National Conference on cyber security jointly organized by Institution of Engineers and M.J.P Rohilkhand University Bareilly on Date **February 25-27, 2023**