




महात्मा ज्योतिबा फुले  
रुहेलखण्ड विश्वविद्यालय, बरेली

# Faculty Profile on University Website

[www.mjpru.ac.in](http://www.mjpru.ac.in)

Title	Ms.	Inderpreet	Kaur			Photograph
Designation		AssistantProfessor–StageIII[AGP-8000]				
Department		Electronicsand CommunicationEngineering				
Address	Campus	E.C.E.Department F.E.T. MJPRU,Bareilly-243006				
	Residence	85,City Heart Colony,Stadium Road,Bareilly, Uttar Pradesh				
Mobile No.		+91-9897662554				
EmailID		Personal	amitoj.ekas@gmail.com			
		University Domain	inderpreet@mjpru.ac.in			
Professional Networking ID,i.e.Linkedin, Twitter						
EducationalQualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
B. Tech		SRMSCET,Bareilly		2004	ElectronicsandCommunication Engineering	
M.Tech		UPTU,Lucknow		2011	Microwave Engineering	
PhD		NIT Silchar,Assam		2025	Microwave Engineering and Antenna Design.	
CareerProfile						
Organization / Institution				Designation	Duration	Nature of Duties
ElectronicsandCommunicationEngineering Govt. Girls Polytechnic Institute Bareilly				Guest Faculty	5/07/2004to 15/05/2005	Teaching
ElectronicsandCommunicationEngineeringF.E.T, MJP Rohilkhand University, Bareilly				Guest Faculty	28/09/2005to 27/08/2008	Teaching
Electronicsand Communication F.E.T, MJP Rohilkhand University, Bareilly				Assistant Professor	28/08/2008to Till Date	Teaching
ResearchInterests/Specialization						
Antenna Designing, Microwave Engineering						
ResearchExperienceinYears-13 Years						
NoofResearchScholars Guided/Guiding–						
Name of Programme		Awarded		Under Supervision/Institution		
Ph.D.		2025(Thesis Submitted)		Dr..Banani Basu,NIT Silchar, Assam		
Dissertation (M.Tech.)		2011		Prof. Madan Singh, SRMSCET, Bareilly		

Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar				
	57259931800	0000-0003-0078-002X	AAX-8083-2020	-	jb6DWJkAAAAJ				
Teaching Experience (Subjects/Courses Taught)									
19YearsofTeachingExperienceUndergraduate 04 Years of Teaching Experience Postgraduate									
Antenna and Wave Propagation, MicroElectronics, DigitalElectronics, Microwave Engineering, Mobile Communication, Radar and Navigation, Satellite Communication, Analog Electronics.									
Honours/ Awards & Fellowship FOR OUTSTANDING WORK									
Name of Award/ Fellowship	Awarded By								
	Name of Govt. Agency	Name of Government Supported Organization/ Department			Name of International Recognized Body				
Contribution in Higher Education	MJP Rohilkhand University, Bareilly	MJP Rohilkhand University, Bareilly			National				
Nation Builder Award	Rotary India Literacy Mission, Bareilly	Rotary India Literacy Mission, Bareilly			National				
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	00	Research Papers Publishedin International Journals	10	Papers Presentedin Seminars/ Conferences	12	Seminars/ Conferences Organized	05	Research Projects (Completed)	02
Books (Co- authored)	04	Research Papers Publishedin Other Journals	15	Seminar/ Conferences Attended	20	Workshops Organized	10	Research Projects (On-going)	00
Books (Edited)	01	Articles Published in Websites, Newspapers, Magazines etc.	05	Sessions Chaired in Seminars/ Conferences	04	Membership Academic/ Professional Bodies	02	Research Projects (Submitted)	02
Chapters in EditedBooks	05	Resource Lectures Delivered	05	Resource Lectures Delivered	05	Patents Published /Granted	20	Countries Visited for Academic Assignments	00

## PAPERS PUBLISHED IN SCI JOURNALS IN LAST 5 YEAR

Sr. No.	Author(s)	Title	Name of Journal	Vol	Page	Year
1	Inderpreet Kaur , Banani Basu & Anil Kumar Singh	Compact Dual Band Substrate Integrated Waveguide MIMO Antenna for X-Band Application	Indian Journal of Pure & Applied Physics	Vol. 62	984-995	2024
2	Inderpreet Kaur , Banani Basu & Anil Kumar Singh	Sub-6 GHz Metallic via Integrated MIMO Antenna Array for 5G Smartphone	Progress In Electromagnetics Research	Vol. 138	91-104	2023
3	Inderpreet Kaur , Banani Basu Anil Kumar Singh, Vinay Rishiwal, Gulshan Sharma, P. Bokaro, Suddep Tanwar	Annular Ring Ultra Wideband Antenna Integrated with Metallic via Array for IoT Applications	IEEE Access	Vol. 10	73446 - 73457	2022

## PAPERS PUBLISHED IN OTHER THAN SCI JOURNALS IN LAST 5 YEAR

Sr.No	Title of the Paper	Journal Name, Volume, Page Nos	ISSN No.	Indexing	Impact factor	No. of co authors	Whether you are the F/P/C Author	Year
1	Design and Optimization of Coplanar Waveguide-Fed Sensing Antennas for ISM Band Applications	WASET International Journal of Electronics and Communication Engineering, Vol:18, No:2,	2010-376X	UGC-Care	0.16	3	Yes	2024
2	Bidirectional Substrate Integrated Waveguide Antenna for X Band Weather Radar Application.	Design Engineering	0011-9342	Scopus	Yes 1.41	2	First Author	2021
3	Next Generation Antenna: Large scale antenna for Mobile Communication	Turkish Journal of Computer and Mathematics education Volume11 No2 816-828	1309-4653	Scopus	0.33	2	Yes	2020
4	Frequency Reconfigurable Wideband Antenna for Wireless Application	Trends in Microwave Engineering and Technology Vol-5 Issue-3	2455-0337	UGC-care	Yes 5.113	3	Principal Author	2020

## PATENTS GRANTED/ FILED IN LAST FIVE YEARS

Sr. No	Inventor/s Name	Title of the Patent	Assignee/s Name (Institute Affiliation/s at time of Application)	Patent Filed Date	Patent Published Date / Granted Date	Patent Publication Number / Patent Granted Number	Status of Patent
1	Dr. Nishant Kumar Pathak, Inderpreet Kaur, Dr. C. Arunabala Dr. Amit Sharma, Dr. Hari Kumar Singh, Ms. Neha Bharani, Prof. Dr. Eng Harish KGR, Dr. Kailash Aseri, Dr. Oorja Sharma, Ms. Pooja Singh	An IOT and machine learning bases method of communicating a digital message with an information signal	MJP Rohilkhand University	02-01-2022	22-04-2022	202211000067	Published
2	Dr. Inderpreet Kaur, Dr. Hari Kumar Singh, Preeti Singh, Akriti Garg	Deep Learning based mental health analysis support system	MJP Rohilkhand University	05-12-2023	12-01-2024	202311082991	Published
3	Prof. Vinay Rishiwal, Dr. Manoj Kumar Singh, Dr. Brijesh Kumar, Prof. Anil Singh, Dr. Hari Kumar Singh, Dr. Inderpreet Kaur, Prof. Rakesh Kumar Maurya	Analysis of dead tissues in medical images using edge detection techniques	MJP Rohilkhand University	07-05-2024	30-08-2024	202411035979	Published
4	Prof. Vinay Rishiwal, Dr. Manoj Kumar Singh, Dr. Brijesh Kumar, Prof. Anil Singh, Dr. Hari Kumar Singh, Dr. Inderpreet Kaur, Prof. Rakesh Kumar Maurya	An approach towards skin-based signal transmission Technology	MJP Rohilkhand University	20-07-2024	16-08-2024	202411055484	Published
5	Prof. Vinay Rishiwal, Dr. Manoj Kumar Singh, Dr. Brijesh Kumar, Prof. Anil Singh, Dr. Hari Kumar Singh, Dr. Inderpreet Kaur, Prof. Rakesh Kumar Maurya	Agriculture land estimation from satellite images using hybrid intelligence	MJP Rohilkhand University	20-07-2024	16-08-2024	202411055488	Published
6	Prof. K.P. Singh, Prof. S. K. Pandey, Dr. Manoj Kumar Singh, Prof. Vinay Rishiwal, Dr. Hari Kumar Singh, Dr. Inderpreet Kaur, Dr D. D. Sharma, Dr. Atul Katiyar	IOT based remote patient monitoring system	MJP Rohilkhand University	CBR No. 2000 79	Date 02-01-2025	442781-001 Design Patent	Granted
7	Prof. K.P. Singh, Dr. Manoj Kumar Singh, Prof. Vinay Rishiwal, Dr.	Smart water boiling device with alert	MJP Rohilkhand	CBR No.	Date 04-01-	442982-001 Design	Granted

	Vishal Saxena, Dr. Hari Kumar Singh, Dr. Inderpreet Kaur, Yash Kumar Singh	mechanism	University	2002 07	2025	Patent	
8	Inderpreet Kaur, Pankhuri, Tanishqua jha	Unique GPS based device to support the safety of women	MJP Rohilkhand University		Date 20-02-2024	IN Patent App. 202,311,082,790	Published
9	Inderpreet Kaur Sunil kumar Singh, Pratibha Gangwar, Rakesh Kumar Maurya	Digital voltage Tester	Inderpreet Kaur Sunil kumar Singh, Pratibha Gangwar, Rakesh Kumar Maurya	11/02/2022	25/04/2022	358408-001	Published
10	Anil Singh Inderpreet Kaur, Banani Basu	MIMO Antenna for smart Agriculture System	Anil Singh Inderpreet Kaur, Banani Basu	13/04/2022	29/06/2022	2022110222	Published
11	Inderpreet Kaur, Dr. Rashmi choudhary, Dr. Vinay Rishiwal	School girls and women safety Empowerment Using IoT and machine learning framework	Inderpreet Kaur, Dr. Rashmi choudhary, Dr. Vinay Rishiwal				Published
12	Hari Kumar Singh, Inderpreet Kaur, Akriti garg Suchita saxena	Deep learning based mental health analysis support system	Hari Kumar Singh, Inderpreet Kaur, Akriti garg Suchita saxena	05/12/2023	12/01/2024	202311082991	Published

## BOOKS/CHAPTERS IN LAST 5 YEAR

Sr. No	Title	Author's Name	Publisher	Year
<b>TEXT BOOKS</b>				
1.	Fundamental of Electronic Circuits	Inderpreet Kaur and Others	Phoenix International Publishing House 978-93-5842-966-4	2023
2.	Artificial Intelligence	Inderpreet Kaur and Others	JEC Publication, India 978-93-5850-541-2	2023
3.	Fundamentals of Digital Electronics	Inderpreet Kaur and Others	JEC Publication, India 978-93-5850-983-0	2023
4.	Electrical Engineering	Inderpreet Kaur and Others	JEC Publication, India 978-93-5850-514-6	2023
<b>BOOK CHAPTERS</b>				
1	Wireless Body Area Network Antenna	Inderpreet Kaur and Others	Scrivener Publishing and John Wiley & Sons, Inc USA	2022
2	MIMO Antenna for IoT and ISM Band Applications	Inderpreet Kaur and Others	CRC Press, Taylor and Francis USA	2022
3	Compact 8-Port MIMO Antenna for C-Band and 5G Applications	Inderpreet Kaur and Others	IIP Proceedings, Volume 2, Book 19, India and Unit of Selfpage, Novi, Michigan USA	2022
4	Analysis of Atmospheric Parameters Using Remote Sensing and ArcGIS	Inderpreet Kaur and Others	IIP Proceedings, Volume 2, Book 19, India and Unit of Selfpage, Novi, Michigan USA	2022
5	Integrated Circuits Fabrication Techniques For C-MOS, N-MOS and BJT	Inderpreet Kaur and Others	IIP Proceedings, Volume 2, Book 19, India and Unit of Selfpage, Novi, Michigan USA	2022
6	MIMO Antenna for IoT and ISM Band Applications	Inderpreet Kaur and Others	Wireless Communication System in Healthcare Informatics, CRC Press, Taylor and Francis USA	2023

## DETAILS OF RESEARCH PROJECTS IN LAST 5 YEAR

Sr. No.	Name of the project and Reference No	PI/ Co-PI	Funding Agency/Division	Cost (INR) Duration	Status
1	Segmentation of Blood Vessels from Retinal Images using Different Image Processing Algorithms <b>Project ID-528</b>	Co-PI	CST UP Engineering Student's Project Grant Scheme	0.20 Lakh (1-Year)	Completed
2	Antenna-Based Tumor Detection: Innovations, Implications, and Recommendations <b>Project ID-878</b>	PI	CST UP Engineering Student's Project Grant Scheme	0.20 Lakh (1-Year)	Completed

## DEVELOPMENT OF E-LEARNING DELIVERY PROCESS/MATERIAL

Sr. No.	Title of module developed	Complete course or module or paper or e-book	Editor or Developer	Developed for	Year
1	Microwave Engineering	Complete course	Developer	B. Tech	2021
2	Antenna and Wave Propagation	Complete course	Developer	B. Tech	2021

## MEMBERSHIP OF PROFESSIONAL SOCIETIES

Sr. No.	Membership Details	Address	Country	Year
1	Member of International Association of Engineers (IAENG)	National Taiwan University, Taiwan	Taiwan	2020
2	IEEE Membership	IEEE, 445 Hoes Lane, PO Box 1331 Piscataway, NJ 08855-1331, USA	USA	2024

## CONFERENCES/ INVITED TALKS

Sr. No.	Title of the Paper presented / Invited Lecture	Whether Int.(abroad) or Inter. (in country) or National	Title of Conference / Seminar	Organized by	Year
1	Viksit Bharat -2047: A pathway to a developed country.	International with in India	Viksit Bharat -2047: A pathway to a developed country.	Polytechnic Amroha	2024
2	Antenna Design for Ambient Backscatter Communication with Harvested Energy	International with in India	International conference on Emerging trends in stem & Health-Agri sciences for sustainable development	MIET Kumaon College in Haldwani.	2024
3	Frequency Reconfigurable Antenna using PIN Diodes for Wireless Application	International with in India	International convention on Applied Mathematics and Computation in Engineering and Technology	University of Mumbai	2024
4	A Novel Approach for Isolation Enhancement of Tri-Band Compact MIMO Antenna for Wireless Communication Applications	International with in India	in Proc. IEEE Microwave and Antennas and Propagation Conference (MAPCON 2024),	Hyderabad,	2024
5	Substrate Integrated Antenna for High Frequency Application	International with in India	Proc. 5th International Conference on ICT for Intelligent Systems,	Ahmedabad,	2021
6	High Performance C-Band Circularly Polarized Corner Fillet Patch Antenna with Periodic Metallic Structures	International with in India	Micro-electronics Communications system Machine Learning and Internet of things	ISVE Ranchi	2021
7	Design & Simulation of Low Profile Wide Band Circularly Polarized Patch Antenna	International with in India	IEEE Indian Conference on Antennas and Propagation (InCAP)	MNIT Jaipur, India, Dec 13-16, 2021	2021

8	Electra MIMO Antenna Design for EV Wireless Communication	International with in India	International Conference of Engineering & Technology	NIER	2024
9	Review paper on essentials for Budding professionals	National seminar	Entrepreneurship Development: the road to five trillion economy	Department of BusinessAdm MJPRU Bareilly	2023

### RESEARCH METHODOLOGY COURSE / WORKSHOP / FDP

Sr. No	Title	Place / Institution	Duration	Dates
1	National workshop on Apprentice Embedded Degree Program: Objectives and Implications	MJP Rohilkhand University, Bareilly Organised by CRISP UP	Two Days	26-27/03/2025
2	National workshop on IPR: Implication and Innovations	MJP Rohilkhand University, Bareilly	One day	22/03/2025
3	All India grappling tournament (Organizing member)	MJP Rohilkhand University, Bareilly	Five Days	18-22/02/2025
4	Faculty Development Program (FDP)	S.A. Engineering College, Chennai, in association with IEEE APS Madras Chapte	One week	23.12.2024 to 30.12.2024
5	“National Faculty Development Programme” On “Recent Research and Advancements in Electrical and Electronics Engineering (RRAEEE 2023)”	Department of EE, Internal Quality Assurance Cell (IQAC), Haldia Institute of Technology and IETE (India), IETEBWN Sub-centre	One week	17-21/04/2023
6	Hands on Training VLSI and Communication Modelling	Department of Electronics and Communication Engineering Dr. B R Ambedkar NIT, Jalandhar (Punjab)	One week	6-10/03/2023
7	International Workshop on RFand Microwave Components (Online)”	organized by School of Electronics Engineering (SENSE)VIT-AP University	One Week	17-23/05/2023
8	Workshop on Photonics Sensor for Chemical and Gas Detection	IIT(ISM) Dhanbad Jharkhand	One Week	18/10/2021 to 23/10/2021
9	Research Challenges and Issues on Antennas	SATHYABAMA, Institute of Science Technology, Chennai	FDP One Week	27/02/2023 to 04/03/2023
10	Webinar cum Workshop Performing and designing experiments on virtual Platform	MJP Rohilkhand University, Bareilly	10 days	8/06/2020-17/06/2020

### OTHER RESPONSIBILITIES COORDINATOR /PROCTOR ETC.

Sr. No	Responsibilities	Place / Institution	Duration
1	Departmental Coordinator T&P Cell	MJP Rohilkhand University, Bareilly, Uttar Pradesh	Five Year
2	MemberCultural Club	MJP Rohilkhand University, Bareilly, Uttar Pradesh	Two Year
3	MemberSports Committee	MJP Rohilkhand University, Bareilly, Uttar Pradesh	One Year
4	MemberCentre of Excellence of women studies	MJP Rohilkhand University, Bareilly, Uttar Pradesh	Two Year
5	MemberIPR Cell	MJP Rohilkhand University, Bareilly, Uttar Pradesh	One Year
6.	MemberRoad safety club	MJP Rohilkhand University, Bareilly, Uttar Pradesh	Two Year
7.	MemberIQAC Cell	MJP Rohilkhand University, Bareilly, Uttar Pradesh	Two Year

8.	Member Directorate of Social and Corporate	MJP Rohilkhand University, Bareilly, Uttar Pradesh	Two Year
9.	Deputy Nodal Officer AICTE -JKPMSS	MJP Rohilkhand University, Bareilly, Uttar Pradesh	One Year

*Inderpreet*

**(Inderpreet Kaur)**  
**Place: Bareilly, U.P, India**