




महात्मा ज्योतिबा फुले
कृषिविद्यालय, बरेली

Faculty Profile on University Website (Official)

www.mjpru.ac.in

Title	Dr.	First Name	Sarabjeet Singh	Last Name	Bedi	Photograph
Designation		Professor				
Department		Computer Science & Information Technology				
Address	Campus	M.J.P. Rohilkhand University, Bareilly (U.P.) – 243006.				
	Residence	355, Guruniwas, Janakpuri, Bareilly (U.P.) 243122				
Mobile No.		9412293355				
Email ID		Personal	dearbedi@gmail.com			
		University Domain	ssbedi@mjpru.ac.in			
Professional Networking ID		Linkedin.com/in/ssbedi				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
B. E.		Guru Nanak Dev Engineering College.		1995	Computer Science and Engineering	
M. E.		NIT-TTR (Est. by Ministry of HRD, Govt. of India), Chandigarh		2001	Computer Science and Engineering	
Ph.D.		I.I.T.M. (Est. by Ministry of HRD, Govt. of India), Gwalior		2009	Information Technology	
Career Profile						
Organization / Institution			Designation	Duration	Nature of Duties	
MJP Rohilkhand University, Bareilly			Lecturer	1997-2002	Academic and Research	
MJP Rohilkhand University, Bareilly			Lecturer (Sr. Scale)	2002-2009	Academic and Research	
MJP Rohilkhand University, Bareilly			Reader	2009-2012	Academic and Research	
MJP Rohilkhand University, Bareilly			Associate Professor	2012-2015	Academic and Research	
MJP Rohilkhand University, Bareilly			Professor	2015- Till date	Academic and Research	
Research Interests / Specialization						
Digital Watermarking, Digital Image Processing, Information Security, Quality Education through Internet, Network Management						
Research Experience in Years: 20 years						
Number of Research Scholars Successfully Guided						
Name of Program		Awarded		Under Supervision		
Ph.D.		05		02		
Researcher/ Expert ID	Scopus	Orchid	Publons		Vidwan	Google Scholar
	24721027300	0000-0003-3377-3272	AAZ-6082-2020		154256	dearbedi@gmail.com
Teaching Experience (Subjects/Courses Taught)						
25 Years (Computer Graphics, Information Security, OMT & UML, OOAD)						

Honors / Awards & Fellowship FOR OUTSTANDING WORK									
Name of Award/ Fellowship		Awarded By							
		Name of Governmental Agency		Name of Government Supported Organization/ Department			Name of International Recognized Body		
Merit Certificate				NIT-TTR (Est. by MHRD, New Delhi), Chandigarh					
National Builder Award							Rotary International		
Certificate of Merit							World Congress on Engg. London (UK)		
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	00	Research Papers Published in International Journals	31	Papers Presented in Seminars/ Conferences	11	Seminars/ Conferences Organized	04	Research Projects (Completed)	02
Books (Co-authored)	00	Research Papers Published in Other Journals	06	Seminar/ Conferences Attended	07	Workshop Organized FDP Organized	07 02	Research Projects (Ongoing)	03
Books (Edited)	00	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	00	Sessions Chaired in Seminars/ Conferences	06	Membersh ip of Academic/ Profession al Bodies	03	Foreign Countries Visited for Academic Assignment s	04
Chapters in Edited Books	05			Resource Lectures Delivered	18				

Details of Publications /Academic Activities (2010 Onwards)					
(a) Authored Books/ Monographs					
Name of Book	Year of Publication	Publisher	ISBN No		
(b) Edited Books					
Year of Publication	Title	Publisher	ISBN	DOI No.	Citations
(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals:					
Details of Selected Papers					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2023	Fully Decentralized Block Chain with Proxy Re-Encryption Algorithm for Healthcare Security	International Journal of Intelligent Engineering & Systems	2185-3118	2.5	
2021	Monitoring and Detecting Plant Disease Using Cloud Based Internet of Things	Integration and Implementation of the Internet of Things Through Cloud Computing	1799869814		
2020	Benchmarking Tree-Based Least Square Twin Support Vector Machine Classifiers	International Journal of Business Intelligence and Data Mining	1743-8195	17 (H-Index)	0.52
2019	Video watermarking scheme based on IDR frames using MPEG-2 structure	International Journal of Information and Computer Security	1744-1773	0.8 (2019)	1.0
2018	Robust Video Watermarking Scheme Based on Intra-Coding Process in MPEG-2 Style	International Journal of Electrical and Computer Engineering	2088-8708	19 (H-Index)	1.22
2017	Video Watermarking Scheme Based on Candidates I-frames for Copyright Protection	Indonesian Journal of Electrical Engineering and Computer Science	2502-4752	1.4 (2019)	0.92
2017	A Multi-Criterion Based Integrated	International Journal of Intelligent	1745-3240	0.8 (2019)	0.50

	Methodology for the Selection of Expert System Shell	Enterprises			
2016	Multiclass ELM Based Smart Trustworthy IDS for MANET	Arabian Journal of Science and Engineering	2191-4281		1.7
2015	Implementation of Hybrid Image Fussion Technique for Feature Enhancement in Medical Diagnosis	Human Centric Computing and Information Services	2192-1962		3.70

(d) Chapter/Paper Published in Edited Books

Publication		Title of the Book	Title of the Chapter	Name & Address of publisher	Year	ISBN	DOI	Citation Google/web of science
National	International							
	YES	Advances in Computational Intelligence and Communication Technology	Classification of Plant Based on Leaf Images	Springer Nature Singapore Pte. Ltd	2020	9789811512759	10.1007/978-981-15-1275-9	
	YES	Handbook of Research on Emerging Priorities and Trends in Distance Education	Using Plug-Avatars “hhh” Technology Education as Service Oriented Virtual Learning Environment in Sliding Mode	IGI Global, USA	2016	9781466696242	10.4018/978-1-4666-9624-2.ch039	
	YES	<i>Internet Policies and Issues</i>	Digital Watermarking: for IPR Protection of Multimedia Contents	Nova Science Publishers, New York, USA,	2010	978-1-61668-745-8		

(e) Invited as Resource Lectures Person/Examiner/Expert (2015 onwards)

1. Expert, BoS (Computer Science), IFTM University, Moradabad, 2022- 2023.
2. External Expert, RDC, IFTM University, Moradabad, 2022-2023.
3. Guest of Honor/Resource Person, Two-day National Seminar on "Intellectual Property Rights: Professional Growth & Competency" at KCMT, Bareilly on 18-19th May, 2023.
4. Keynote Speaker, One-day seminar on Veer Bal Diwas, at MJPRU, Bareilly, 26th Dec.,2022.
5. Special Guest, One day workshop on Future Prospects of Learning Multilingual, CoEMS, MJPRU, Bareilly, 23rd Dec., 2022.
6. Special Guest on IEEE International conference on SMART at TMU, Moradabad, 06th Dec., 2022.
7. Chief Guest, Orientation Program, Utkarsh College of Management, Bareilly, Sep., 2022
8. Resource Person/Invited Speaker, One Week Online AICTE-ATAL FDP on Security, Department of ME, MJPRU, Bareilly, Apl., 2022
9. Represented University, INDO-UK, 2022 Summit at UK British Council, New Delhi, 6-7 April, 2022.
10. Invitee Speaker, Webinar on "Future of Telecommunication and Information Technology", at ITM University, Gwalior, 17th May, 2021.
11. Guest of Honor/Resource Person, National Seminar on "Intellectual Property Rights and Higher Education in India: Interrelation and Challenges" at Jyoti College of Management and Technology, Bareilly, 13-14th March 2021.
12. Session Chaired, IEEE 5th International Conference on "Advances in Computing, Communication & Automation", at MJP Rohilkhand University, Bareilly, 29-30th Nov., 2019.
13. Resource Person for Workshop on Quality Education, Faculty of Education, MJP Rohilkhand University, Bareilly Mar., 2018.
14. Invited Speaker/Resource Person, FDP on Wireless Communication at G. B. Pant Agriculture University, Pantnagar, 11-17 Mar., 2018.
15. Invited Speaker/Session Chair, IEEE International Conference, Bhimtal, 23-24 Feb., 2018
16. Invited Speaker, 2nd International Conference on Pluralism, Society and Management, at Invertis University, Bareilly, 17-19 Aug., 2017.
17. Guest of Honor/ Invited Speaker, National Conference on Network Security Issues and Challenges (NSIC-2017), SSVIT, Bareilly, Mar., 2017.
18. Key Note Speaker/Chief Guest (Valedictory), 4th Computer Science National Conference on Contemporary Research in Computing and Informatics (CRCI 2017) at SRMS, Bareilly, Mar., 2017.
19. Key Note Speaker/Session Chair, National Conference on Convergence on Information and Comm. Technology, SSVIT, Bareilly, 12 Mar., 2016.
20. Key Note Speaker, Workshop on National Energy Conservation Day, by Institution of Engineers, Bareilly, 14 Dec., 2015.
21. Key Note Speaker, National Seminar on Management Practices and Usage of Technology, KCMT, Bareilly, 01-02 Dec., 2015.
22. Key Note Speaker, Workshop on Good Governance, U.P. Rajashree Tandon University, Allahabad, held at IVRI, Bareilly, 15-17 Sep., 2015.
23. Key Note Speaker/ Session Chair, International Conference on Advances in Computer Engineering and Applications (ICACEA), IMS Engineering College, Gaziabad, 19-20, Mar., 2015.
24. Session Chair, International Conference on Academic Research in Engineering, Management and IT (ICAREMIT 2015), FET, MJP Rohilkhand University, Bareilly, 21-23, Feb., 2015.

(f) Seminars/Conferences/Workshops Organized (2015 onwards)

1. Program Coordinator, one-week Online FDP on “Emerging Trends In Area of Data Science”, Sponsored By AICTE Training and Learning (ATAL) Academy, AICTE, New Delhi, 12-16, Nov., 2022.
2. Program Coordinator, One day International INDO-US Workshop on Global Business Culture & Entrepreneurship Program, Org. by, DIR and RIF, MJPRU, Bareilly 08 July, 2022.
3. Patron, National Seminar on Intellectual Property Rights: Professional Growth and Competency, Org. by; KCMT, Bareilly and IPR Cell, MJPRU, Bareilly, 18-19, May, 2022
4. Program Coordinator, Workshop on IPR Awareness & Patent Filing, IPR Cell, MJPRU, Bareilly 21st Mar., 2022.
5. Program Coordinator, one day Webinar on “Protection of IPR and Research Ethics” (IPR-RE-2021), World IP Day – 2021, organized by IPR Cell, 26th April, 2021.
6. Coordinator, National Seminar on “Intellectual Property Rights and Higher Education in India: Interrelation and Challenges”, 13-14th March 2021. Organized by Jyoti College, Bareilly in collaboration with IPR cell, MJP Rohilkhand University, Bareilly.
7. Coordinator, National Webinar on Revamping the Instructional Pedagogy to Execute the Vision of NEP 2020, IQAC, MJP Rohilkhand University, Bareilly, 08 Sep., 2020
8. Organizing Secretary, One-day Workshop on “Designing Digital Tools for Effective Assessment and Accreditation of Educational Institutions”, IQAC, MJP Rohilkhand University, Bareilly, 31st Oct., 2019.
9. Chairman/Coordinator, One-day Workshop on IPR Issues (Sponsored by CST, Lucknow), May 2018.
10. Program Coordinator, Two-day workshop on Online Admission System for Principal of all Affiliated Colleges of Rohilkhand Region, Bareilly, May 2018.
11. Program Coordinator, Two-day workshop on Online Admission System for Principal of all Affiliated Colleges of Rohilkhand Region, Bareilly, 05-06 May, 2017.
12. Program Coordinator, one week Faculty Development Program (FDP) on MATLAB and SIMULINK, 2015.
13. Program Coordinator, Two days’ workshop: Online Examination System for Principal of all Affiliated Colleges of Rohilkhand Region, Bareilly, 2015.

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

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
2023	Development of Air Quality Prediction Model Based on Different Machine Learning Techniques	DoR	5,00,000	2023	2025
2023	Machine Learning Based Evaluation of Changing Paradigm in Higher Education with National Education Policy (NEP) 2020	DoR	5,00,000	2023	2025
2021	Artificial Intelligence Enabled GPS based On-Call Veterinary Services System	R&D, U.P. Government	5,00,000	2021	2024
2019	Designing of Classification techniques for Leaf Disease	TEQIP-III, World Bank	2,00,000	2019	2021
2012	Quality Assessment of Intellectual Information Available on Internet.	UGC, New Delhi	90,000	2012	2014

(h) Administrative Positions/Assignments Held			
Post	Organization	Duration	
		From	To
Director	Directorate of International Relational	2021	2023
Head	Department of CS & IT	2020	2023
State Technical Coordinator	U.P. B.Ed.-JEE	2019	2021
Dy. Coordinator	Online Admission Committee	2017	2021
Nodal Officer	IPR cell	2016	2022
Convener	Board of Studies (CSIT)	2014	2016
In-Charge	Online Examination cell	2014	2015
Dy. Coordinator	U.P.B.Ed. online counseling	2010	2017
In-charge	Training & Placement	2009	2013
HoD/In-charge	Department of CSIT	2002	2005
(i) Seminar/Conference Attended/Presentations/ Publication			
<ol style="list-style-type: none"> Design of a Blockchain based Security Algorithm for IoT in Healthcare, 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Noida, 2022, Pages 2209-2214, IEEE Publisher, April, 2022. Secure System of Continuous User Authentication Using Mouse Dynamics”, 3rd International Conference on Intelligent Engineering and Management (ICIEM), Pages 138-144, Publisher; IEEE, April, 2022, An Improved Approach for Devanagari Handwritten Characters Recognition System, Applied Information Processing Systems (Conference Proceedings of ICCET 2021), Volume 1354, Pages 217-226, Publisher: Springer, Singapore, 2022. Classification of Plant Based on Leaf Images, Advances in Computational Intelligence and Communication Technology, Pages 29-37, Springer, Singapore, 2022. A review on Artificial Intelligence Techniques for Disease Recognition in Plants, IOP Conference Series: Materials Science and Engineering (1st International Conference on Computational Research and Data Analytics (ICCRDA 2020) 24th October 2020, Rajpura, India), Volume 1022, Issue 1, Pages 012032, IOP publisher, Publication Date: Jan., 2021. National Level Webinar on Assessment and Accreditation Process of NAAC organized by IQAC, MJPRU, Bareilly with NAAC, Bengaluru, July, 2020. Keystroke Dynamics Biometric, A tool for User Authentication-Review, “International Conference on System Modeling & Advancement in Research Trends (SMART)”, Pages 248-254, TMU Moradabad, India, IEEE Publisher, Nov., 2018. Continuous User Authentication via Mouse Dynamics, “5th IEEE International Conference on Advances in Computing, Communication & Automation (ICACCA-2019)”, Bareilly, IEEE Publisher, 2019. Classification of plant based on leaf images, 5th International Conference on Computational Intelligence and Communication Technology (CICT), Ghaziabad, 2019. A Twin Vector Machine Based Approach to Classifying Human Skin, “4th IEEE International Conference on Computing Communication and Automation (ICCCA)”, Page 1-5, Galgotia University, Noida, India, IEEE Publisher, Dec., 2018. Copyright Protection Using Blind Video Watermarking Algorithm Based on MPEG-2 Structure”, International Conference on Computing Communication and Authentication (ICCCA), pp 1048-1053, Publisher IEEE, 15-16 May, 2015. Web Based Enterprise Management for Distributed Heterogenous Computing Environment: A Review, IEEE Computational Intelligence on Power, Energy and Controls with their Impact on Humanity (CIPECH), page 38-42, Gaziabad, IEEE Publisher, Nov.,2014,. 			

13. Guidelines for Quality Assessment of Intellectual Information Available on Internet, International Technology, Education and Development Conference (INTED) Proceeding, pp 5847-5853, Valencia, Spain, Mar. 2014.
14. SNMP, CMIP Based Distributed Heterogeneous Network Management Using WBEM Gateway Enabled Integration Approach, Proceeding of International Conference on Recent Advances and Future Trends in Information Technology, at Punjabi University, Patiala, March, 2012.
15. Analyze the Performance of New Edge Web Applications Over N-Tiers Layer Architecture, High Performance Architecture and Grid Computing (HPAGC 2011), Chandigarh, pp 299-305, Springer Verlag Berlin Heidelberg, July 2011.
16. Enhanced Object Oriented WBEM Enabled Solution for Non-Homogenous Network, Proceedings of IEEE International Conference on Network Communication and Computers (ICNCC), Pages(s): 633-637, New Delhi, 2011.
17. An Efficient Method to Factorize the RSA Public Key Encryption”, International Conference on Communication System and Network Technologies (CSNT), pp 108-111, Katra, Jammu, Publisher: IEEE, 3-5 June 2011.

(j) Memberships of Academic/Professional Bodies

- CSI, India;
- ISTE, India;
- IEEE, USA;
- IAENG, China.;
- MIR Labs, U.K..

(k) Participation in Community Service / Exchange Program / Consulting Activity

(l) International Academic Exposure

- London, UK; Valencia, Spain; Paris, France

(m) Any Other Details

Google Scholar (Citation)

- Citation = 1153
- h-index = 17
- i10-index = 22



Signature of Faculty Member