



## Faculty Profile on University Website

www.mjpru.ac.in

| Title                                                   | Dr.       | First Name                                 | Sumit | Last Name                   | Srivastava                                                                                   | Photograph                                                                          |
|---------------------------------------------------------|-----------|--------------------------------------------|-------|-----------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Designation                                             |           | Associate Professor                        |       |                             |                                                                                              |  |
| Department                                              |           | Electronics and Communication Engg.        |       |                             |                                                                                              |                                                                                     |
| Address                                                 | Campus    | Deptt. Of EC, FET, MJPRU, Bareilly         |       |                             |                                                                                              |                                                                                     |
|                                                         | Residence | Type-3 ,B-6 MJPRU Campus, Bareilly         |       |                             |                                                                                              |                                                                                     |
| Mobile No.                                              |           | 9411917873, 8630274329                     |       |                             |                                                                                              |                                                                                     |
| Email ID                                                |           | Personal                                   |       | sumitmjpru@gmail.com        |                                                                                              |                                                                                     |
|                                                         |           | University Domain                          |       | sumitsrivastava@mjpru.ac.in |                                                                                              |                                                                                     |
| Professional Networking ID, i.e. LinkedIn, Twitter etc. |           | Twitter account: @sumitsr17688858          |       |                             |                                                                                              |                                                                                     |
| Educational Qualifications (Graduation Onwards)         |           |                                            |       |                             |                                                                                              |                                                                                     |
| Course/Degree                                           |           | Institution                                |       | Year                        | Details/Thesis Topic/Subjects                                                                |                                                                                     |
| B.Tech.                                                 |           | VBS UNSIET, Jaunpur                        |       | 2005                        | Electronics Engineering                                                                      |                                                                                     |
| M.Tech.                                                 |           | Uttarakhand Technical University, Dehradun |       | 2013                        | Digital Communication                                                                        |                                                                                     |
| Ph.D                                                    |           | IIT (BHU), Varanasi                        |       | 2023                        | Sensor Response Upscaling Based Approaches For Smart Gas Sensing Systems Using Deep Networks |                                                                                     |
| Career Profile                                          |           |                                            |       |                             |                                                                                              |                                                                                     |
| Organization / Institution                              |           | Designation                                |       | Duration                    | Nature of Duties                                                                             |                                                                                     |
| MJP Rohilkhand University Campus, Bareilly              |           | Guest Faculty                              |       | 2005-2007                   | Teaching                                                                                     |                                                                                     |
| Invertis University, Bareilly                           |           | Lecturer                                   |       | 2007-2008                   | Teaching                                                                                     |                                                                                     |
| MJP Rohilkhand University                               |           | Assistant Professor                        |       | 28- 08-2008 to 02/07/2023   | Teaching                                                                                     |                                                                                     |
| MJP Rohilkhand University                               |           | Associate Professor                        |       | 03/07/2023 to Till date     | Teaching                                                                                     |                                                                                     |

|                                                                                                       |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
|-------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|---------------------|-------------------------------------------------------|----|---------------------------------------|------------------------------|--------------------------------|
| Research Interests / Specialization : Antenna designing, Automotive Radar, Smart Systems              |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
| Research Experience in Years                                                                          |                              |                                                     | 21 years            |                                                       |    |                                       |                              |                                |
| No of Research Scholars Successfully Guided                                                           |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
| Name of Programme                                                                                     |                              | Awarded                                             |                     | Under Supervision                                     |    |                                       |                              |                                |
| Ph.D.                                                                                                 |                              |                                                     |                     | 02                                                    |    |                                       |                              |                                |
| M.Phil.                                                                                               |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
| Dissertation (M.Ed./M.A.)                                                                             |                              | 01                                                  |                     | 02                                                    |    |                                       |                              |                                |
| Researcher/ Expert ID                                                                                 | Scopus                       |                                                     | Orchid              | Publons                                               |    | Vidwan                                | Google Scholar               |                                |
|                                                                                                       | sumitsrivastava@mjprou.ac.in |                                                     | 0000-0003-4861-0185 | sumitsrivastava@mjprou.ac.in                          |    | 165453                                | sumitsrivastava@mjprou.ac.in |                                |
| Teaching Experience (Subjects/Courses Taught)                                                         |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
| Antenna and Wave Propagation , EMFT, Microwave Engineering, DSP architecture, Satellite Communication |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
| Honours / 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 |                              |                                |
| QIP Fellowship (2017)                                                                                 |                              | AICTE                                               |                     |                                                       |    |                                       |                              |                                |
| Global Faculty Award 2020                                                                             |                              |                                                     |                     |                                                       |    | AKS Worldwide Education               |                              |                                |
| Dr. Sarvepalli Radhakrishnan Best Faculty Award 2021                                                  |                              |                                                     |                     |                                                       |    | CPACE                                 |                              |                                |
| Publications /Academic Activities (Numbers Only)                                                      |                              |                                                     |                     |                                                       |    |                                       |                              |                                |
| Books & Monographs (Single Author)                                                                    |                              | Research Papers Published in International Journals | 25                  | Papers Presented in Seminars/ Conferences             | 18 | Seminars/ Conferen ces Organize d     | 5                            | Research Projects (Comple ted) |
| Books (Co-authored)                                                                                   |                              | Research Papers Published in Other Journals         |                     | Seminar/ Conferences Attended                         | 15 | Worksho ps Organize d                 |                              | Research Projects (Ongoin g)   |
| Books (Edited)                                                                                        |                              | Articles Published in                               |                     | Sessions Chaired in                                   |    | Members hip of                        | IEEE & MTT-S                 | Foreign Countrie s Visited     |
| Chapters in                                                                                           |                              | Popular Fora,                                       |                     | Seminars/ Conferences                                 |    | Academic                              |                              |                                |

|              |                                                   |                             |    |                       |                      |
|--------------|---------------------------------------------------|-----------------------------|----|-----------------------|----------------------|
| Edited Books | e.g., Websites, Blogs, Newspapers, Magazines etc. | Resource Lectures Delivered | 12 | / Professional Bodies | for Academic Assignm |
|--------------|---------------------------------------------------|-----------------------------|----|-----------------------|----------------------|

#### **Details of Publications /Academic Activities (2010 Onwards)**

##### **(a) Authored Books/ Monographs**

| <b>Name of Book</b>             | <b>Year of Publication</b> | <b>Publisher</b>                | <b>ISBN No</b>    |
|---------------------------------|----------------------------|---------------------------------|-------------------|
| Microwave and Radar engineering | 2021                       | BFC Publication Private Limited | 978-93-5509-174-1 |
| Smart Manufacturing             | 2022                       | RK Publication Private Limited  | 978-93-95331-38-8 |

##### **(b) Edited Books**

| <b>Year of Publication</b> | <b>Title</b>                                                                                      | <b>Publisher</b> | <b>ISBN</b>       | <b>DOI No.</b> | <b>Citations</b> |
|----------------------------|---------------------------------------------------------------------------------------------------|------------------|-------------------|----------------|------------------|
| 2022                       | Wide band Microstrip Patch Antenna Array with Parasitic element for automotive radar applications | IEEE             | 978-9-46396-8058  |                |                  |
| 2022                       | A Novel H-Shaped Microstrip Patch Antenna Array for Automotive Radar Applications, 2022           | IEEE             | 978-9-46396-8058  |                |                  |
| 2021                       | Design & Simulation of Low Profile Wide Band Circularly Polarized Patch Antenna                   | IEEE             | 978-1-6654-0110-4 |                |                  |

##### **(c) Papers Published in SCI/SCIE/Scopus/UGC Care Listed /Indexed/ Peer Reviewed Journals**

| <b>Year of Publication</b> | <b>Title</b>                                                                                               | <b>Name of Journal</b>                        | <b>ISSN No</b> | <b>Citations</b> | <b>Impact Factor</b> |
|----------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------|------------------|----------------------|
| 2025                       | Skyward secure: Advancing drone data-sharing in 6G with decentralized dataspace and supported technologies | Journal of Parallel and Distributed Computing | 1096-0848      | 10               | 4                    |

|      |                                                                                                                           |                                          |                  |     |      |
|------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------|-----|------|
| 2025 | Tribological Performance and Wear Coefficient Prediction of AA2024TiC Composites via Python Based Machine learning        | Journal of Polymer & Composites (ESCI)   | 2321-2810        |     | 6    |
| 2024 | Federated learning meets blockchain in decentralized data sharing: Healthcare use case                                    | IEEE Internet of Things Journal (SCI)    | 2327-4662        | 155 | 10.6 |
| 2024 | Towards sustainable industry 4.0: A survey on greening IoE in 6G networks                                                 | AdHoc Networks (SCI)                     | 1570-8713        |     | 4.8  |
| 2024 | Swin-PSO-SVM: A Novel Hybrid Model for Monkeypox Early Detection                                                          | IEEE Access(SCI)                         | ISSN: 2169-3536  | 12  | 4.1  |
| 2023 | Federated Learning Meets Intelligence Reflection Surface in Drones for Enabling 6G Networks: Challenges and Opportunities | IEEE Access(SCI)                         | ISSN: 2169-3536  | 43  | 4.1  |
| 2023 | Spatial upscaling -based Algorithm for detection and estimation of hazardous gases (2023)                                 | IEEE Access(SCI)                         | ISSN: 2169-3536  | 26  | 4.1  |
| 2023 | A novel data-drive technique to produce multi-sensor virtual responses for gas sensor array-based electronic noses(2023)  | Journal of Electrical Engineering (SCIE) | eISSN: 1339-309X | 12  | 1    |
| 2022 | UAV computing-assisted search and rescue mission framework for disaster and harsh environment mitigation,2022             | Drones(SCI)                              | ISSN:2504-446X   | 290 | 5    |
| 2022 | Hybrid Visual and Optimal Elliptic Curve Cryptography for Medical Image Security in IOT, 2022                             | ECTI-CIT Transactions (Scopus)           | ISSN: 2286-9131  | 14  | 1    |

|      |                                                                                                   |                                                                                                      |                                                  |    |       |
|------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------|----|-------|
| 2018 | Design and Analysis of Single notch band UWB antenna ,Vol-7, Issue -7 April 2018                  | Review of Research (UGC Approved)                                                                    | 2249-894X                                        |    | 5     |
| 2017 | Design and Analysis of Microstrip Patch antenna for WiMAX Application, Vol.7 Issue 3 , Dec -2017  | Review of Research (UGC Approved)                                                                    | 2249-894X                                        |    | 5     |
| 2018 | Comparison of phased array steerable beam antennas for 5G Mobile applications                     | Invertis Journal of Science & Technology                                                             | Print ISSN : 0973-8940. Online ISSN : 2454-762X. | 01 | 5.932 |
| 2017 | Design And Analysis of 5g Antennas For MobileApplications                                         | International Journal for research in applied science and engineering Technology (UGC Approved)      | ISSN no. 2321:9653                               |    | 7.429 |
| 2015 | Effect of Slots on Performance of the Microstrip Patch Antenna                                    | International Journal of Electrical and Electronics Engineers (IJEET)                                | ISSN(O): 2321-2055<br>ISSN(P): 2321-2047         | 04 | 2.71  |
| 2015 | Effect of Meta Material on performance of Microstrip Antenna                                      | International Journal of Research Fellow for Engineering                                             | ISSN-2320-7396                                   |    |       |
| 2014 | Low cost E- shaped Microstrip patch antenna array for WLAN                                        | International Journal for Advanced Research in Electrical, Electronics, Instrumentations Engineering | ISSN No. (print): 2320-3765<br>ISSN No. (online) | 06 | 7.122 |
| 2013 | Design and Simulation of Wide band hut Shaped Patch Antenna pg No. 1-4, volume 3 Issue-1 Feb-2013 | Indian Streams Research Journal                                                                      | : 2278-8875<br>2230-7850                         |    | 5.16  |

| (d) Chapter/Paper Published in Edited Books |                |                                                                                          |                                                                                                   |                         |                   |         |  |                                 |
|---------------------------------------------|----------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|-------------------|---------|--|---------------------------------|
| Publication                                 |                | Title of the Book                                                                        | Title of the Chapter                                                                              | Name Address of Publish | ISBN              | Y E A R |  | Citation Google/ web of science |
| National                                    | Internation al |                                                                                          |                                                                                                   |                         |                   |         |  |                                 |
|                                             | International  | Handb ook of Resear ch on Advan ced Functio nal Materi als for Orthop edic Applica tions | Application of Biomaterial s in Tissue Engineering (SCI)                                          | IGI Global              | 978-1-6684-7-4129 | 2023    |  |                                 |
|                                             | INTERN ATIONAL | USRI – AT-AP- RASC-2022                                                                  | Wide band Microstrip Patch Antenna Array with Parasitic element for automotive radar applications | IEEE                    | 978-9-4639-6-8058 | 2022    |  |                                 |
|                                             | INTERN ATIONAL | USRI – AT-AP- RASC-2022                                                                  | A Novel H- Shaped Microstrip Patch Antenna Array for Automotive Radar Applicatio ns,2022          | IEEE                    | 978-9-4639-6-8058 | 2022    |  |                                 |
|                                             | INTERN ATIONAL | INCAP 2021                                                                               | Design & Simulation of Low Profile Wide Band Circularly Polarized Patch Antenna                   | IEEE                    | 978-1-6654-0110-4 | 2021    |  |                                 |

| (e) Invited as Resource Lectures Person/Examiner/Expert                                              |                                                                                                                                     |                                                        |                          |                               |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------|-------------------------------|
| Resource person                                                                                      | Detail of Event                                                                                                                     | Title of Lecture                                       | Date                     | Institution                   |
| Resource person                                                                                      | Workshop and hands on Training on Instrumentation                                                                                   |                                                        | 28 Jan-01 Feb 2019       | BHU, Varanasi                 |
| Resource person                                                                                      | Workshop and hands on Training on Instrumentation                                                                                   |                                                        | 26 Dec-31 Dec 2018       | BHU, Varanasi                 |
| Expert                                                                                               | Expert Talk                                                                                                                         | CRO and Advanced CRO                                   | 20 Apr- 21 Apr 2010      | Invertis University, Bareilly |
| (f) Projects                                                                                         |                                                                                                                                     |                                                        |                          |                               |
| SNo.                                                                                                 | Name of the project                                                                                                                 | Funding Agency                                         | Cost (INR)               | Duration                      |
| 2                                                                                                    | Development of a Novel technique for Detection and Estimation of Hazardous gases with higher accuracy Using Artificial Intelligence | Department of Higher Education, Govt. of Uttar Pradesh | 2.1 Lakhs                | (3 Years)                     |
| (g) Patent (With Title, Year)                                                                        |                                                                                                                                     |                                                        |                          |                               |
| Name of the Patent awarded                                                                           |                                                                                                                                     | Year of award                                          | International / National |                               |
| low cost parasitic patch array antenna for automotive Radar Application                              |                                                                                                                                     | 2021                                                   | National                 |                               |
| Validating space health care transactions using block chain proof - of-work , systems and techniques |                                                                                                                                     | 2022                                                   | National                 |                               |
| Python Programming for analyzing the properties of air craft structural element                      |                                                                                                                                     | 2022                                                   | National                 |                               |
| (h) Administrative Positions/Assignments Held                                                        |                                                                                                                                     |                                                        |                          |                               |
| Post                                                                                                 | Organization                                                                                                                        | Duration                                               |                          |                               |
|                                                                                                      |                                                                                                                                     | From                                                   | To                       |                               |
| Assistant Dean Student Welfare (ADSW)                                                                | MJPRU, Bareilly                                                                                                                     | 2014                                                   | 2017                     |                               |
| Assistant Dean Student Welfare (ADSW)                                                                | MJPRU, Bareilly                                                                                                                     | 2020                                                   | Till now                 |                               |
| President(Rohilkhand University Teachers Association )(RUTA)                                         | MJPRU Campus                                                                                                                        | 2015                                                   | 2017                     |                               |
| Placement cell Member                                                                                | MJPRU Campus                                                                                                                        | 2011                                                   | 2013                     |                               |
| Member, University Examination committee                                                             | MJPRU Campus                                                                                                                        | 2015                                                   | 2017                     |                               |
| (i) Seminar/Conference Presentations                                                                 |                                                                                                                                     |                                                        |                          |                               |

|                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Present a paper on “ <b>Wide band Microstrip Patch Antenna Array with Parasitic element for automotive radar applications</b> ” in 2022 URSI Asia-Pacific Radio Science Conference (URSI AP-RASC) (IEEE) held in, <b>Gran Canaria (Spain)</b> , 29 May – 3 June 2022. |
| 2. Present a paper on “ <b>A Novel H-Shaped Microstrip Patch Antenna Array for Automotive Radar Applications</b> ” in 2022 URSI Asia-Pacific Radio Science Conference (URSI AP-RASC) (IEEE) held in, <b>Gran Canaria (Spain)</b> , 29 May – 3 June 2022.                 |
| 3. Present a paper on “Design of Tri-band L Shaped Parasitic Patch Antenna” in 2019 <b>URSI Asia-Pacific Radio Science Conference (AP-RASC)</b> , (IEEE) held in <b>New Delhi</b> on 9-15 March, 2019.                                                                   |
| 4. Present a paper on “ <b>Evolution and performance of 5G Technology</b> ” in International seminar on Advanced Computing Technology (ACT-2016) held in Invertis University, Bareilly on 18-19 November 2016                                                            |
| 5. Present a paper on, “Effect Of Slots On The Performance Of The Microstrip Patch Antenna” in International Conference on Academic Research in Engineering, Management and Information Technology held in MJPRU, Bareilly on 21-23 Feb, 2015.                           |
| 6. Present a paper on, “Design and Analysis of Rectangular Patch Microstrip Patch Antenna with defected ground plane for WiMax application” in DIGNATE ETEECT-2014.                                                                                                      |
| 7. Present a paper on “Compact High Gain Two Element Microstrip Antenna Array For Wireless Applications” in National Conference on Advance in Electronics and Communication Engineering held in MJPRU, Bareilly on 27-28 march, 2014.                                    |
| 8. Present a paper on “Analysis of multiband microstrip antenna” in National Conference held in Indraprastha Engineering College, Gaziabad on 5-6 April, 2013.                                                                                                           |
| 9. Present a paper on “Analysis of Rectangular Microstrip antenna with multi slots” in National Conference held in BBDIT, Gaziabad on 15-16 march, 2013.                                                                                                                 |
| 10. Present a paper on “Generation of Mobile Wireless Technology” in National Seminar SAET held in MJPRU, Bareilly on 17 Feb, 2012.                                                                                                                                      |
| 11. Present a paper on “Performance of Rectangular Microstrip Antenna Loaded with Three Slots” in National Seminar SAET held in MJPRU, Bareilly on 17 Feb, 2012.                                                                                                         |
| 12. Present a paper on “Simulation of S-shape Multiband Micro strip Antenna Using IE3D” in National Conference (NSI-36) held in Invertis University, Bareilly on 20-22 Oct, 2011.                                                                                        |
| 13. Present a paper in National Seminar on “Dual Band S Shape Micro strip Antenna For Wireless LAN” held on 14-15 April 2011 at Delhi (by ICEIT).                                                                                                                        |
| 14. Present a paper in National Seminar on “Simulation of Dual Band Dual Slot Micro Strip Antenna for Wireless Communication” held on 2-3 April 2011 at VCE, Meerut.                                                                                                     |
| <b>(j) Memberships of Academic/Professional Bodies IEEE and MTT-S</b>                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                          |
| <b>(m) Any Other Details</b>                                                                                                                                                                                                                                             |
| <b>1. Worked as Observer and Assistant Center Superintendent in different examinations conducted by MJP Rohilkhand University.</b>                                                                                                                                       |

Signature of Faculty Member