

# RKDF University, Bhopal

## Faculty Profile



| Basic Information  |                     |  |            |  |
|--|---------------------|--|------------|--|
| <b>Name</b>  |                     | <b>Dr. Ratnesh Kumar Jain</b>  |            |  |
| <b>Date of Birth</b>                                       |                     | <b>29/12/1981</b>  |            |  |
| <b>Designation</b>   |                     | <b>Professor</b>   |            |  |
| <b>Department</b>  |                     | <b>Faculty of Engineering &amp; Technology (Department of Electronics &amp; Communication Engineering)</b> |            |  |
| <b>Experience</b>  |                     | <b>19 Years 8 months</b>   |            |  |
| <b>Email ID</b>  |                     | <b>ratneshjain29@rediffmail.com</b>  |            |  |
| <b>Contact No</b>  |                     | <b>9826498798</b>  |            |  |
| Educational Qualifications                                 |                     |  |            |  |
| <b>Description</b>   |                     | <b>Year</b>  | <b>%</b>   | <b>Institute/University</b>  |
| <b>(UG)-</b>   |                     | 2005   | 65.25      | <b>Pt. Ravishankar Shukla University, Raipur, Chhattisgarh</b>                   |
| <b>(PG)-</b>   |                     | 2010   | 68.7       | <b>Rajiv Gandhi Technical University Bhopal, Madhya Pradesh</b>                  |
| <b>(Ph. D.)- Electronics and Communication Engineering</b> |                     | 2021   | --         | <b>Ram Krishna Dharmarth Foundation (RKDF University), Bhopal Madhya Pradesh</b> |
| Experience Detail  |                     |  |            |  |
| <b>Experience (Teaching/ Research)</b>                     | <b>Designation</b>  | <b>Duration</b>  |            | <b>Name of Institute/University</b>  |
|  |                     | <b>From</b>  | <b>To</b>  |  |
| <b>Teaching</b>  | Lecturer            | 09/07/2005   | 31/12/2010 | <b>Bhabha Engineering Research Institute Bhopal</b>                              |
| <b>Teaching</b>  | Assistant Professor | 01/01/2011   | 11/05/2011 | <b>Bhabha Engineering Research Institute Bhopal</b>                              |
| <b>Teaching</b>  | Assistant Professor | 12/05/2011   | 31/12/2021 | <b>RKDF University, Bhopal</b>   |
| <b>Teaching and Research</b>                               | Associate Professor | 01/01/2022   | 18/11/2024 | <b>RKDF University, Bhopal</b>   |
| <b>Teaching and Research</b>                               | Professor           | 19/11/2024   | Till Date  | <b>RKDF University, Bhopal</b>   |

| <b>Publications</b>                   |           |
|---------------------------------------|-----------|
| <b>No. of Papers Published</b>        | <b>16</b> |
| <b>No. of Patents Published/Grant</b> | <b>01</b> |

| <b>Ph. D/M. Phil Project supervised</b>  |              |   |                           |
|--|--------------|---|---------------------------|
| <b>Research Program</b>  | <b>Award</b> | <b>Under Supervision</b>                          | <b>Name of University</b> |
| 02   | 02           | 03  | RKDF University Bhopal    |
| 02   | 02           | 02  | RKDF University Bhopal -- |
| <b>Area of Expertise (100 words)</b>   |              |   |                           |
| I have specialized in Communication Systems, Micro Electronics & VLSI Design, Image Processing, Smart Antenna, Digital Communication, Analog Communication, Advanced Communication, Communication Networks & Transmission Lines, Microprocessors and Network Analysis. |              |   |                           |
| <b>Award and Achievement</b>   |              |   |                           |
| <b>Name of Award</b>   |              | <b>Description (With certified of Copy award)</b> |                           |
| <b>National</b>  |              | --  |                           |
| <b>International</b>   |              | --  |                           |
| <b>Conference/Seminar/Workshops/FDP</b>  |              |   |                           |
| <b>Description</b>   |              | <b>No.</b>  |                           |
| <b>Conference/Seminar p a p e r presentation</b>   |              | <b>08</b>   |                           |
| <b>Conference/Seminar attended/ organized</b>  |              | 02  |                           |
| <b>Work shop attended/ organized</b>   |              | 03  |                           |
| <b>FDP Attended/ organized</b>   |              | 03  |                           |

## List of Publications

1. **Yogesh Mishara ,Dr.Virendra Singh Chaudhary & Dr. Ratnesh Kumar Jain**, “ Adaptive Feature Fusion for Missing Spectrum-Data Recovery in Cognitive IoT Networks”, International Journal of Engineering Research(IJER), Volume No.-12 Issue No-4 PP-104-110, Dec 2023, ISSN No-2319-6890, <https://ijer.in/publication/v12/021.pdf>
2. **Dr. Ratnesh Kumar Jain & Satyendra Kumar**, Compact Dual Band Bandpass Microstrip, Filter with Open End Line Resonators for, WiMAX and WLAN Applications, International Journal of Innovative Trends In Engineering (IJITE), Issue 131, Volume 75, Number 11, November 2023 [https://www.ijite.com/citations/IJITE\\_7511\\_20832.pdf](https://www.ijite.com/citations/IJITE_7511_20832.pdf)
3. **Dr. Ratnesh Kumar Jain & Bhupendra Dhukarya**, Tri Band Low Profile Closed Loop Square, Diamond Ring Microstrip Filter for WiMAX, and WLAN Applications with Negative, Group Delay, International Journal of Scientific Progress and Research(IJSPR), Issue 214, Volume 81, Number 12, December 2023. [https://www.ijspr.com/citations/v81n12/IJSPR\\_8112\\_31342.pdf](https://www.ijspr.com/citations/v81n12/IJSPR_8112_31342.pdf)
4. **Dr. Ratnesh Kumar Jain &Dr.Virendra Singh Chaudhary**, “ Multi Label Health image Segmentation Model of MRI Using SVM Algorithm: A Review”, International Journal of Innovative Trends In Engineering (IJITE), Volume No.-76 Issue No-133 PP-01-06, Jan 2024, ISSN No-2395-2946, [https://www.ijite.com/citations/IJITE\\_7601\\_20841.pdf](https://www.ijite.com/citations/IJITE_7601_20841.pdf)
5. **Dr. Ratnesh Kumar Jain &Dr.Virendra Singh Chaudhary**, “ An Advanced Encryption Standard in FPGA Paradigms”, International Journal of Scientific Progress and Research(IJSPR), Volume No.-82 Issue No-215 PP-01-04, Jan 2024, ISSN No-2349-4689. [https://www.ijspr.com/article\\_details.php?paperid=8201\\_31343](https://www.ijspr.com/article_details.php?paperid=8201_31343)
6. **Dr. Ratnesh Kumar Jain & Dr.Virendra Singh Chaudhary**, “An Extensive Literature Review On Microstrip Resonator Filter”, Shodh Sanagm -- A RKDF University Journal of Science and Engineering, Volume No.-07 Issue No-1 PP-70- 75, Jan –Feb 2024.
7. **Dr. Ratnesh Kumar Jain & Dr.Virendra Singh Chaudhary**, “Comparative Analysis of MIMO System By Using Signaling Condition For Wireless Communication System”, Shodh Sangam- -- A RKDF University Journal of Science and Engineering, Volume No.-06 Issue No-4 PP-26-33, Aug 2023, ISSN No-2581-5806,
8. **Ratnesh Kumar Jain**, “Compact Dual Bandpass Microstrip Filter With Open End Line Resonators For WiMAX And WLAN Applications” International Journal of Innovative Trend In Engineering Issue,131, Volume75, Number11, Nov 2023. [https://www.ijite.com/citations/IJITE\\_7511\\_20832.pdf](https://www.ijite.com/citations/IJITE_7511_20832.pdf)
9. **Dr. Ratnesh Kumar Jain & Dr.Virendra Singh Chaudhary**, “A Comprehensive Analysis Of Microstrip Filter: Review”, Shodh Sanagm -- A RKDF University Journal of Science and Engineering, Volume No.-06 Issue No-6 PP-70-76,Nov- Dec 2023, ISSN No-2581-5806,
10. **Dr. Ratnesh Kumar Jain & Dr.Virendra Singh Chaudhary**, “Analysis of MIMO System Under Different Signaling Condition for Wireless Communication System”, Shodh Sanagm -- A RKDF University Journal of Science and Engineering, Volume No.-06 Issue No-5 PP-36-44, Sept-Oct 2023, ISSN No- 2581-5806,
11. **Ratnesh Kumar Jain, Virendra Singh Chaudhary** “Performance Analysis of MIMO System Under Different Signalling Condition “Solid State Technology Journal Volume 64,Jan 2021,Page No:31-44.
12. **Ratnesh Kumar Jain, Virendra Singh Chaudhary** “MPSO Based Frequency Reuse and Beam

Forming for Massive MIMO System” Journal of The Maharaja Sayajirao University of Baroda Volume No 55 Issue No 1(V) Year 2021 ISSN :0025-0422 UGC CARE Journal Page No: 21-27.

13. **Ratnesh Kumar Jain, Virendra Singh Chaudhary** “Machine Learning Based Frequency Reuse and Forming for Massive MIMO System” Wesleyan Journal of Research an International Research Journal Volume 30, Issue No 01,May 2021 UGC Care Approved ,Peer Reviewed and Research Journal Page No: 155-166.
14. **Ratnesh Kumar Jain**, “PAPR Reduction Concerning BER Performance In MIMO-OFDM-Based Next –Gen Wireless Systems- A Review” International Journal of Engineering Sciences & Management Journal Volume 12(1): Jan-Mar 2022, Page No: 20-29,ISSN:2277-5528.
15. **Ratnesh Kumar Jain**, “Technical Analysis of Massive MIMO Key Technology in 5G” International Journal of Engineering Sciences & Management Volume12 (3): Apr-Jun 2022, Page No: 1-29, ISSN:2277-5528.

## **Seminar/FDP/STTP/Workshop/Conferences**

1. Participated and Present Paper in National Conference on “**Recent Trends in Distributed Intelligent System and Security Advancement**” held during March26-27 Year 2010 Organised by LNCT Bhopal(M.P.)
2. Participated in one day Seminar “**Management Education Trends and Practices**” “Organised by RKDF University Bhopal (M.P.) Held on 23 Feb.2012.
3. Participated in one day Seminar on “**Entrepreneurship Development and its Linkage with IGNOU**” Organised by RKDF University Bhopal (M.P.) Held on 24 Feb.2012.
4. Participated in Symposium on “**Innovation in Science &Technology for Inclusive Development**” on 14<sup>th</sup> Dec.2013 at RKDF University Bhopal (M.P.).
5. Participated in a Seminar on “**Strategies for Investment Driven Economy in Indian Contest**” held on 21 Dec.2013 organised by Indian Institution of Industrial Engineering (Bhopal Chapter).
6. Participated in National Seminar on “**Ethical Leadership**” organised by RKDF University Bhopal held on 8<sup>th</sup> Feb.2014
7. Attained a conference on “**Sustainable Development of India Through Health Care and Education**” in RKDF University held on date 24 Aug.2017,Sponsored by MPCST Bhopal(M.P.)
8. Participated and presented paper in 2nd International Conference on “**Contemporary Technological Space Solutions towards Fulfilment of Social Needs.**” on Date 28 Sep 2019 to 29 Sep. 2019 Organized by RKDF University.
9. Participated and presented paper in 3<sup>rd</sup> International Conference on “**Resent Advances in Smart Innovative Idea with Multidisciplinary Research**” on Date 30 Nov 2019 to 01 Dec.2019 Organized by RKDF University and Research Foundation of India.
10. Participated in Faculty Development Program on “**Applied AI: Practical Implementations**” under, TechSaksham Program from “9th Sep 2024 - 13th Sep 2024”. Organized by Microsoft India & SAP India led.
11. Participated in Faculty Development Program on **Very-large-scale integration (VLSI)**. Duration: 17-Mar-2025 To 31-Mar-2025 Organized by SkillDzire in collaboration with AICTE.