Faculty Details proforma for DU Web-site



| Title | Dr. | | | First Name | Vikram | Last Name | Kumar | Photog | raph |
|---|---|--|---|---------------|--------|-------------------------|-------|--|---------------------|
| Designation | Assistant Professor | | | | | | | Printing of Control of | |
| Address | Department of Electronic Science University of Delhi, South Campus New Delhi – 110 021 | | | | | | | | |
| Phone No | 91-11-24157193 (Direct) | | | | | | | | |
| Office | 91-11-24110440 | | | | | | | | |
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| Mobile | 9005384687, 9452562369 | | | | | | | | |
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| Web- Page | https://www.linkedin.com/in/dr-vikram-kumar-80220852/ https://www.researchgate.net/profile/Vikram-Kumar-42 | | | | | | | | |
| Educational Qualifications | | | | | | | | | |
| Degree | Degree Institut | | ion | | | | | Year | |
| | | ment of Electronic Engineering, Indian Institute of logy BHU Varanasi | | | | | 2019 | | |
| M.F.(F()-Microwave) | | nent of Electronic & Communication, Birla e of Technology Mesra | | | | | 2011 | | |
| B.SC. Engg. (Electronics & RP Shar Communication) Univers | | ma Institute of Technology Patna, under Magadh ity | | | | | 2008 | | |
| Organization | | | Designati | ion | | Duration | | | Role |
| Deptt. of Electronic Science, UDSC, INDIA | | | Assistant I | Profess | or | 10.03.2022 - Till Date | | | Teaching & Research |
| National Institute of Technology Patna | | | Contractu | al Facu | lty | 01.12.2020 - 08.03.2022 | | | Teaching & Research |
| Dronacharya Group of Institution Greater Noida | | | Assistant Professor 02.07.2020 - 01.11.20 | | | | 2020 | Teaching | |
| JSS Academy of Technical Education, Noida | | | Assistant Professor 30.07.2012 - 31.07.20 | | | | | 2014 | Teaching & Research |
| Dev Bhoomi Institute of Technology, Dehradun | | | Assistant Professor 11.07.2011 - 23.07.20 | | | | | 2012 | Teaching |
| Administrative | Administrative Assignments | | | | | | | | |
| Member, Departmental Research Committee Member, Committee of Courses | | | | | | | | | |
| Areas of Interest / Specialization | | | | | | | | | |

Specialized in RF & Microwave Devices, Modern Antennas, Plasma Antenna, Numerical Techniques in Microwave Engineering.

Having Research Interest in High Power Microwave Application,

RF and Microwave circuits,

Biomedical Application of Microwave

Subjects Taught

Theory:

B.Tech (Electronics)

- Bio Medical Signal Processing
- Elements of Electronic
- Microwave Engineering
- Electromagnetic Theory and Wave Propagation

Practical:

B.Tech (Electronics)

- Antenna and Wave Propagation
- Digital Electronics
- Microwave Engineering
- Computational Electromagnetics Lab

Research Guidance

List against each head (If applicable)

| ugu | | | |
|-----|---|---|-----|
| 1. | Supervision of awarded Doctoral Thesis | - | Nil |
| 2. | Supervision of Doctoral Thesis, under progress | - | Nil |
| 3. | Supervision of awarded M.Phil dissertations | - | Nil |
| 4. | Supervision of M.Phil dissertations, under progress | - | Nil |

Publications Profile

List against each head (If applicable) (as Illustrated with examples)

1. Books Chapter

• Vikram Kumar, and Dileep Kumar Gupta, Chapter entitled "Radar components and their types (Transmission lines, Antennas, Filters, Absorbers, generator and receiver)" in the book "Radar Remote Sensing: Application and Challenges", Elsevier Inc., ISBN: 9780128234570.

2. Research papers published in Refereed/Peer Reviewed Journals

- V. Kumar, S. Dwivedi, P. K. Jain, "Circular Sectoral Waveguide TM01 to TE11 Mode Converter", Microwave and Optical Technology Letters, Vol. 61, Page 1697–1701, 2019. Top 10% downloaded paper of Wiley Publication in the duration of January 2018 and December 2019 as recognised and certified by the publication house.
- V. Kumar, S. Dwivedi, P. K. Jain, "Experimental Investigation and Design of Sectoral Waveguide TM01 to TE11 Mode Converter", Journal of Microwave Power and Electromagnetic Energy, Vol. 53, Page 276-295, 2019.
- V. Kumar, S. Dwivedi, P. K. Jain, "Mode Matching Analysis for Characterisation of the SWG Mode Converters", Microwave and Optical Technology Letters, Vol. 61, Page 2619-2627, 2019.
- V. Kumar, M. Mishra, N. K. Joshi, "Study of a fluorescent tube as Plasma antenna", Progress in Electromagnetics Research Letters, Vol. 24, Page 17-26, 2011.

3. Patents Filed

- Inventors: V. Kumar, P. K. Jain, "Coaxial Beam Rotating Mode Converter", Indian Patent, Published on 11 March 2022, Application No. 202231004086, Applicant – NIT Patna.
- Inventors: V. Kumar, S. Rao, P. K. Jain, "An Improved Electromagnetic Radiator Based on Integration of Sectoral Plates in Coaxial Horn Antenna", Indian Patent, Published on 19 November 2021, Application No. 202131036858, Applicant – NIT Patna
- Inventors: V. Kumar, S. Dwivedi, P. K. Jain, "High power microwave sectoral waveguide mode converter", Indian Patent, Published on 01 January 2021, Application No. 201911025593, Applicant – IIT BHU Varanasi.

4. Conference papers

- V Kumar, P K Jain, "Design analysis of a Tunable Tapered Metallic Baffle TM01 to TE11 HPM Mode Converter", IVEC 2020, Monterey, CA. October 2020
- V Kumar, P K Jain, "Sectoral Waveguide TEM to TE11 Mode Converter and its Limitations", National Conference on Emerging Trends in Vacuum Electronic Devices and Application, Roorkee, India, 17-19 November 2017
- V Kumar, P K Jain, "Effects of Dielectrics in Coaxial Beam Rotating Antenna", National Conference on Emerging Trends in Vacuum Electronic Devices and Application, 16-18 March 2017
- V Kumar, P K Jain, "Design and Simulation of a Coaxial to Cylindrical Waveguide Mode Converter", National Conference on Emerging Trends in Vacuum Electron Devices and Application, 3-5 December 2015
- Vikram Kumar, "A Review of Plasma Antennas", National Conference on Higher Education Ways Ahead, Delhi, India, November 2014.

Awards and Distinctions

I. Qualified GATE 2009 EC

II. UG Project was Department of Science and Technology Bihar in 2007

Research Projects (Major Grants/Research Collaboration)

Nil

Association With Professional Bodies

Other Activities

www.du.ac.in

Signature of Faculty Member