



Name: Sandeep Kumar

Designation: Assistant Professor

Department: Electronics & Communication Engg.

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Qualifications: Ph.D. (Pursuing)

Experience: 15 Years

**Area of Interest: Antenna Design, Analog & Digital Circuits,
Digital Signal Processing.**

**Publication: 12 conference paper, One ESCI & 3 papers in
national journal.**

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Sandeep Kumar

- Seeking assignments in Academics and Research.
- A Self-motivated professional with 14 years of experience in Education and Industry sector.

Professional Summary:

Qualification	Ph.D (Pursuing) MMM UT, Gorakhpur. M.Tech, MUIT, Lucknow Communication System B. Tech, AKTU, Lucknow
Current Designation	Applied Electronics & Instrumentation Associate Professor
Current Organization	Ashoka Institute of Technology & Management (affiliated to GBTU, Lucknow; Approved by AICTE, Delhi), Varanasi
Research Project	Design and analysis of Novel compact dual band Tera- hertz Antenna using CST Microwave studio, a commercially available simulator based on finite integral technique
Conference Paper Presentation	9 International, 3 National Conferences.
Journals, Attended Workshops, FDPs, MDP & STTPs, NPTEL online courses	1 ESCI & 3 Journals. 7 Workshop conducted by IITs 1 MDP program organized by IIM Lucknow

	10 FDPs
	7 STTPs
	2 Eight weeks NPTEL courses with Elite Certification.
Computer Literacy	Possess good working knowledge of MS Office
Years of Experience	14 Years

➤ **Career Highlights:**

- ✦ Presently working as Assistant professor in the department of Electronics and Communication Engineering in **Ashoka Institute of Technology & Management**, (affiliated to AKTU, Lucknow; Approved by AICTE, New Delhi) Varanasi from January'17 to till date.
 - ✦ Worked as an Assistant Professor in the Department of Electronics & Communication in **Kashi Institute of Technology, Varanasi**, (affiliated to AKTU, Lucknow; Approved by AICTE, New Delhi) Varanasi from July '08 to 31 December 2017.
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➤ **Major Responsibilities Undertaken:**

- ✦ Worked as Head of Department.
- ✦ Working as SPOC of the Institute for NPTEL
- ✦ Presently working as Associate professor in charge of the Institute.
- ✦ Working as NBA Coordinator of the Institute.
- ✦ Teaching/Training students at undergraduate level.
- ✦ Conducted International Conference at the Institute.
- ✦ Supervising the students in Summer Internship Projects and Dissertations.
- ✦ Active member of the Examination cell
- ✦ Worked as Conference Co-convener in International Conference.
- ✦ Worked as Conference Proceeding Editor in International Conference
- ✦ Worked as Member Paper Review Committee in International Conference

➤ **Education Credentials:**

- ✦ Ph.D Pursuing from MMM UT, Gorakhpur.
 - ✦ M. Tech in ‘Communication System’ from MUIT, Lucknow
 - ✦ Bachelor of Technology in Applied Electronics & Instrumentation from B.B.S.C.E.T, (Affiliated to UPTU, Lucknow; Approved by AICTE, New Delhi), Allahabad.
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➤ **NPTEL Online Courses:**

- ✦ Successfully completed 8- weeks’ course on **“Analog Circuits” with “Elite” Certificate.**
 - ✦ Successfully completed 8- weeks’ course on **“Digital Circuits” with “Elite” Certificate.**
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➤ **Conference Papers:**

- ✦ **“Design and Analysis of Novel Microstrip-Based Dual-Band Compact Terahertz Antenna for Bioinformatics and Healthcare Application”** Published in **“International Journal of Mathematical, Engineering and Management Sciences”** *Vol. 8, No. 5, 850-868, 2023 with impact factor 1.6*
- ✦ **“Performance comparison of Bulk with SOI FINFET in Nano-Scale Regime”** at the International Conference on Electrical Engineering and Computer Science (ICEECS-2012) held at Goa.
- ✦ **“Study of Performance Modelling and Optimization Method of Random process Variations to enhance Parametric performance of VLSI Circuits.”** at International Conference on Recent advances in Engineering and Technology (ICRAET-2012) held at Hyderabad.
- ✦ Priti Gupta, S L Tripathi, Sandeep Mishra **“A novel Low leakage current and Power Consideration of 2 to 4 decoder”** in IJAER as special issue which is having, Online ISSN 1087-1090, Vol 7,2012.

- ✦ Suman Lata Tripathi, Ramanuja Mishra, Sandeep Mishra, Virendra Pratap Yadav & R.A. Mishra **“Performance Comparison of Bulk FINFET with SOI FINFET in Nano-Scale Regime”** IRNet Transactions on Electrical and Electronics Engineering, pp.114-118, 2012
 - ✦ S L Tripathi, Priti Gupta, Sandeep Mishra, R A Mishra, **“Performance Improvement of Multi-Gate MOSFET with High-K Dielectric Materials”** in IJICT, volume 3, no.6, 2013
 - ✦ **“3-D Sub threshold current model for doped symmetrical ultra thin quadruple gate- all-Around MOSFET”** at national conference on Emerging Trends in Science, Technology & Management (ETSTM-2018), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“A prototype control system for wearable Dopamine Regulation”** at national Conference on Emerging Trends in Science Technology & Management (ETSTM-2017), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“A Comprehensive Study on Sensor Used in Flying Vehicle”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“Review Paper on Cognitive Radio Spectrum Sensing Techniques”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“Analysis of predictable global warming using Machine Learning”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“WDM and DWDM Fiber Optic Communication System: A review”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **A Review: “Mellitus care using Artificial Intelligence & Machine Learning”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“Internet of Things: Fastness concern and their strategies in modern system”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
 - ✦ **“Analysis of Free Space Optical Communication System under Various Atmospheric Turbulences”** at International Conference on Innovative Practices in Engineering Sciences & Management (IESM-2022), held at Ashoka Institute of Technology & Management, Varanasi.
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➤ **Research Projects**

- ✦ Design and analysis of Novel compact dual band Tera-hertz Antenna using CST Microwave studio, a commercially available simulator based on finite integral technique.
 - ✦ **Title of the Project:** Obstacle Detector using PIR Sensor
 - ✦ **Description:** To Detect any obstacle in a defined range
 - ✦ **Duration:** 06 months
 - ✦ **Project Organized by:** College level.
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➤ **Organizational Training:**

- ✦ One month summer training in Uttar Pradesh Rajya Vidhut Utpadan Nigam Ltd. Anpara.
 - ✦ Control & Instrumentation M.D-1, 3x210MW, ATPS
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➤ **Other Achievements:**

- ✦ Attended & successfully completed 15 days STTP program on “**Empowering Research with Advance Excel and Power BI**” organized by **Ashoka Institute of Technology & Management, Varanasi** from 06/05/2023 to 20/05/2023.
- ✦ Attended an ISTE workshop on ‘**Signals and Systems**’ by **IIT Kharagpur and IIT Mumbai** under MHRD program from 30th Sept. to 4th Oct.2013
- ✦ Attended an ISTE workshop on ‘**Signals and Systems**’ by **IIT Kharagpur and IIT Mumbai** under MHRD program from 2nd Jan. to 12th Jan. 2014
- ✦ Attended a two-week ISTE workshop on ‘**Fluid Mechanics**’ by **IIT Kharagpur and IIT Mumbai** under MHRD program from 20th May to 30th May 2014.
- ✦ Attended one-week ISTE workshop on ‘**Computer Programming**’ by **IIT Mumbai** under MHRD program June- 2014.
- ✦ Attended a two-week ISTE workshop on ‘**Computer Networking**’ by **IIT Mumbai** under MHRD program June- 2014.

- ✦ Attended one-week ISTE workshop on ‘Control System’ by **IIT Mumbai** under MHRD program December- 2014.
- ✦ Attended & successfully completed **Management Development Program on “Critical Thinking”** organized by **IIM, Lucknow**.
- ✦ Successfully completed Short Term Training Program on **“NBA Accreditation”** organized by **NITTTR, Kolkata**.
- ✦ Five days faculty Development Program on **“Outcome based Education in Technical Education”** organized by **Ashoka Institute of Technology & Management, Varanasi** from 01st July to 5th July 2019.
- ✦ One week faculty development program on **“Recent trends in Computational Technologies”** organized by department of ECE & CSE, Ashoka Institute of Engineering & Technology Malkapur from 13 July to 18 July 2020.
- ✦ Five days International Faculty Development Program on **“Recent Trends and application of next generation Computing Technologies”** organized by **Department of Information Technology in collaboration with Computer society of India** from 20 July to 24 July 2020.
- ✦ 5-days Faculty Development Program on **“Emerging Research Areas in Engineering”** organized by **SRM Institute of Science & Technology, Chennai, Tamil Nadu** from 5th June to 9th June 2020.
- ✦ Five days Faculty Development Program on **“Outcome based Education & Accreditation”** organized by **IILM College of Engineering & Technology** from 25th July to 29th July 2020.
- ✦ International Faculty Development Program on **“Future Advancements and Application of Internet of Things”** organized by Electronics & Telecommunication department of Sandip Institute of Engineering & Management, Nasik from 12th June to 14th June 2020.
- ✦ Five days Faculty Development Program on **“Research Methodology: Tools & Technique”** organized by **IILM College of Engineering & Technology** from 18th May to 22th May 2020.
- ✦ 5 days Faculty Development Program on **“Application of Artificial Intelligence Techniques”** organized by department of CSE, Ashoka Institute of Technology & Management, Varanasi.
- ✦ Attended & successfully completed **“Signal & System” STTP on Bloom Taxonomy- Higher Order Thinking Skill in Electronics & Communication Engineering**, organized by department of Electronics & Communication Engineering from 22/06/2020 to 26/06/2020.

- ✦ Attended & successfully completed “**Analog Electronics**” STTP on Bloom Taxonomy- **Higher Order Thinking Skill in Electronics & Communication Engineering**, organized by department of Electronics & Communication Engineering from 15/06/2020 to 19/06/2020.
- ✦ Attended & successfully completed “**Digital Signal Processing**” STTP on Bloom Taxonomy- **Higher Order Thinking Skill in Electronics & Communication Engineering**, organized by department of Electronics & Communication Engineering from 29/06/2020 to 03/07/2020.
- ✦ Attended & successfully completed “**Electromagnetics**” STTP on Bloom Taxonomy- **Higher Order Thinking Skill in Electronics & Communication Engineering**, organized by department of Electronics & Communication Engineering from 06/07/2020 to 10/07/2020.
- ✦ Attended & successfully completed “**Communication & Networks**” STTP on Bloom Taxonomy- **Higher Order Thinking Skill in Electronics & Communication Engineering**, organized by department of Electronics & Communication Engineering from 13/07/2020 to 17/07/2020.

➤ **Reference:** 1. Prof. S. K. Sharma IIT, BHU, Varanasi

(sksharma.mec@iitbhu.ac.in, Mb. 9335416507)

2. Prof. N.S. Rajput, IIT, BHU

(nsrajput.ece@iitbhu.ac.in Mb.91-9415390577)

I hereby declare that the above information provided by me is true to the best of my knowledge.

Date :

Sandeep Kumar Mishra