Dr. Vivek Kumar

Email: vivekrastogi@ieee.org, rastogi0807@gmail.com

Phone: +91-8420852865

Objective:

To get a responsible position in the field of academics, where my professional skill towards work would be exposed to gain expertise and knowledge.

Working Experience:

- Overall teaching experience: 7 Years
- Currently working as an **Associate Professor** in ECE department at **PSIT, Kanpur** from 01/08/2018 onwards.
- Worked as an **Assistant Professor** in ECE department at **PSIT, Kanpur** from 01/01/2016 to 31/07/2018.
- Worked as an **Assistant Professor** in **DITS, Allahabad (U.P.)** from 03/01/2012 to 03/09/2012.

Subject Taught:

- Signals & Systems
- Optical Communication
- Antenna and Wave Propagation
- Microwave Engineering
- Electronic Measurement & Instrumentation
- Wireless Communication
- Microprocessors

Administrative Experience:

- Working as core committee member for accreditation from NBA
- Working as Project Coordinator
- Working as Department Research Coordinator
- Worked as Class Coordinator

Skills:

CST Microwave Studio Suite, MATLAB, Advanced Design System (ADS), OPNET Modeler, MS Office-Word, PowerPoint and Excel.

Academic Qualifications:

- Successfully defended **Ph.D.** (**Electronics and Communication Engineering**) dissertation entitled "Performance Analysis of Body- Worn SS-UWB Patch Antenna and IEEE 802.15.6 CSMA/CA MAC Protocol Modeling for WBAN in Medical Scenario" on May 15, 2018.
- Completed the **PhD Course Work** with **8.25 CGPA** from BIT Mesra, Ranchi.
- **Master in Technology** in Electronics & Communication Engineering with **7.3 CGPA (78 %)** from **Jaypee Institute of Information Technology, Noida (U.P.)** in 2011.
- Bachelor in Technology in Electronics & Communication Engineering with **65.27%** from BIT, Muzaffarnagar (U.P.) in 2009.
- XII (CBSE Board) with 59.50% from JDSVM, Kanpur (U.P.) in 2004.
- X (CBSE Board) with 76.80% from JDSVM, Kanpur (U.P.) in 2002.

Research Publications:

International Journals

1. R. Singh, M. Arora, Y. M. Dubey, **Vivek Kumar**, G. Sahu, "RT/Duroid 5880-based Hook slotted multi frequency low profile patch antenna for WBAN applications", *Materials Today: Proceedings*, Elsevier, vol.30, no. 1, pp. 28–34, April 2020. [Scopus, Impact Factor: 1.8]
2. **Vivek Kumar** and B. Gupta, "Design Aspects of Body-Worn UWB Antenna for Body-Centric Communication: A Review", *Wireless Personal Communications*, Springer, pp. 1–31, August 2017. [SCI, SCI Expanded, Impact Factor: 1.671]
3. **Vivek Kumar** and B. Gupta, "On Body Measurements of SS-UWB Patch Antenna for WBAN Applications", *International Journal of Electronics & Communications* (AEU), Elsevier, vol.70, no. 5, pp. 668–675, May 2016. [SCI, SCI Expanded, Impact Factor: 3.183]
4. **Vivek Kumar**, B. Gupta, and S. K. Ramakuri, "Wireless Body Area Network towards Empowering Real-time Healthcare Monitoring: A Survey", Int*ernational Journal Sensor Networks*, Inderscience Publisher, vol. 22, No. 3, pp. 177-187, November, 2016. [SCI Expanded, Impact Factor: 1.302]
5. **Vivek Kumar** and B. Gupta, "Performance Analysis of IEEE 802.15.6 CSMA/CA Protocol for WBAN Medical Scenario through DTMC Model", *Journal of Medical Systems*, Springer, vol. 40:276, December 2016. [SCI, Impact Factor: 4.46]

International Conferences

1. Sahu, G., **Kumar, V.**, Rathour, A.S., "Compact Tapered Shape Wide Slot UWB Antenna with 5. 6 GHz Band-Notched Characteristics", Proceedings of Trends in Electronics and Health Informatics, Lecture Notes in Networks and Systems, vol. 376, pp 567–574, 2022.
2. R. Singh, **Vivek Kumar**, Y. M. Dubey, G. Sahu, D. Seth and M. Arora, "Modeling and Analysis of Fractal Antenna using Minkowski Island Technique for Wireless Body Centric Communication", *8th International Conference on Recent Trends in Computing"* (ICRTC-2020), Ghaziabad, India, 3-4 July 2020. [**Best Paper Award**]
3. **Vivek Kumar**, R. Singh, and Y. M. Dubey "Efficient Design with SAR Analysis of SS-UWB Patch Antenna for WBAN", *International Conference on "Data Science and Application"* (ICDSA-2019), Jaipur, India, 2-3 December 2019.
4. **Vivek Kumar**, and B. Gupta, "End-to-End Delay Analysis of IEEE 802.15.6 Standard for WBAN Medical Paradigm", *IEEE 5th International Conference on Wireless Communications, Vehicular Technology, Information Theory, Aerospace & Electronics Systems* (Wireless VITAE'2015), Hyderabad, India, 13-16 December 2015.
5. **Vivek Kumar** and B. Gupta, "Design Optimization and SAR Characterization of SS-UWB Patch Antenna for WBAN", *18th IEEE International Symposium on Wireless Personal Multimedia Communications* (WPMC'15), Hyderabad, India, 13-16 Dec. 2015.
6. S. K. Ramakuri, **Vivek Kumar**, and B. Gupta, "Behaviour State Feature Extraction through Single Channel EEG Device for Medical Application", *IEEE 5th International Conference on Wireless Communications, Vehicular Technology, Information Theory, Aerospace & Electronics Systems*, (Wireless VITAE'2015) Hyderabad, India, Dec. 2015.
7. S. K. Ramakuri, **Vivek Kumar**, and B. Gupta, "Feature Extraction from EEG Signal through One Electrode Device for Medical Application", *1st International Conference on Next Generation Computing Technologies* (NGCT 2015), Dehradun, September 2015.

8. S. K. Ramakuri, **Vivek Kumar**, and B. Gupta, "Extraction for Human Behaviour from EEG Signal for Medical Application", *2nd International Conference on Microelectronics, Circuits and Systems* (Micro 2015), Kolkata, July 2015.
9. **Vivek Kumar,** B. Gupta, and S. K. Ramakuri, "Performance Analysis of Swastika Slot UWB Antenna in Vicinity of Dispersive Human Layered Tissue Model", *IEEE Region 10 Technical Symposium*, Kuala Lumpur, Malaysia, pp. 219-223, April 2014.
10. **Vivek Kumar**, and B. Gupta, "Swastika Slot UWB Antenna for Body-worn Application in WBAN", *8th IEEE International Symposium on Medical Information and Communication Technology (ISMICT 2014)*, Firenze, Italy, pp. 1-5, April 2014.
11. **Vivek Kumar** and S. Gupta, "Bandwidth Enhancement in Aperture Coupled Microstrip Antenna Using Adhesive Bond", *International Conference on Innovation and Advancements in Information and Communication Technology (ICIAICT 2012)*, Greater Noida, pp. 327-332, April 2012.

Book Chapter Publications

1. R. Singh, A. S. Rathour, **Vivek Kumar**, D. Seth, S. Rawat, and K. Ray, "Design and Analysis of Low Profile, Enhanced Bandwidth UWB Microstrip Patch Antenna for Body Area Network", in Engineering Vibration, Communication and Information Processing, Lecture Notes in Electrical Engineering, vol. 478, pp. 187-195, ISBN- 978-981-13-1642-5, Springer, Singapore, 2019.

Patent Filed:

1. "SS-UWB Patch Antenna for Body-Centric Communication", Application no. 201811045449A, Dec. 28, 2018.
2. "MEDICART: Telemetry Using RFID", Application no. 201811037266A, Oct. 19, 2018.
3. "PI-BOT: The Programmable Assistant", Application no. 201811037277A, Oct. 19, 2018.
4. "Autonomous Seed Sowing BOT", Application no. 201811036992A, Oct. 05, 2018.

Personal Details:

Name	:	Vivek Kumar
Father's Name	:	Aravind Kumar Chatrapati
Date of Birth	:	04-01-1988
Sex	:	Male
Marital Status	:	Married
Hobbies	:	Watching Movies and Cricket, Listening Music
Permanent Address	:	A.K. Chatrapati (Rastogi), House No- 61, Tehri Bazar, Post-Markeenganj, District- Ghazipur (UP)-233001

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Kanpur (Dr. Vivek Kumar)