

# **SANDEEP KUMAR**

*Assistant Professor, ECE*

**Qualifications:** Ph. D (Ongoing), M. Tech (ECE), B. Tech (ECE)

**Area of Interest:** Modeling and Simulation of Nanoscale Solid State Devices

**Contact No.:** +91- 9411751826

**Email id:** sandy.ec@gmail.com, sandeep.kumar@gbpec.ac.in

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## CURRICULUM VITAE

### **Work Experience (Total :8 Yr)**

- Assistant Professor at G.B Pant Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Pauri Garhwal from July- 2012 to present.

### **Research Interests:**

- Modeling & Simulation of JLFETs, TFETs.
- FET Biosensor

### **Education:**

- Doctor of Philosophy (Ph.D.) (Ongoing)
- Master of Technology (M.Tech.) in Electronics and Communication Engineering from College of Technology, GBPUAT, Pantnagar, India.
- Bachelor of Technology (B.Tech.) in Electronics and Communication Engineering from College of Technology, GBPUAT, Pantnagar, India.

### **Google Scholar Profile:**

(Link: [https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=XFN2CPoAAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=XFN2CPoAAAAJ))

### **Research Publications:**

#### **Journal Papers:**

1. S. Kumar, Y. Singh, B. Singh, and P. K. Tiwari, "Simulation study of dielectric modulated dual channel trench gate tfet based biosensor," IEEE Sensors Journal, 2020.
2. S. Kumar, Y. Singh, and B. Singh, "Extended source double-gate tunnel FET based biosensor with dual sensing capabilities," Silicon, pp. 1–8, 2020.

### **Subjects Taught:**

1. Analog Electronics Circuits
2. Electromagnetic Field Theory
3. Microelectronics
4. Signal & Systems
5. Microwave Engg.