

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

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Work Experience (Total :10 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)

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.
3. S Kumar, B Singh, and Y Singh, "Analytical model of dielectric modulated trench double gate junctionless FET for biosensing applications," IEEE Sensors Journal, 2021

Responsibilities held:

1. Course Counsellor
2. OiC Time Table (ECED)
3. OiC Analog Electronics Lab

Subjects Taught:

1. Analog Electronics Circuits
2. CMOS Design
3. Microelectronics
4. Integrated Circuits
5. Electromagnetic Field Theory
6. Signal & Systems
7. Microwave Engg.