Faculty Profile

Name: **Dr. KOUSIK MIDYA**

Designation: **Assistant Professor**

Teaching Areas: Basic electronics, Analog electronics, VLSI

Research Interests: Modeling and simulation of nanostructured devices, Environmental modeling

Education:

- Ph.D. (Microelectronics) from Indian Institute of Technology Bombay, 2017.
- M. E. (Electronics & Telecomm. Engg.) from Jadavpur University, Kolkata, 2006.
- B. Tech. (Radio Physics & Electronics) from University of Calcutta, Kolkata, 2004.

Research / Selected Publications:

Web of Science (SCI indexed): 05, Conferences (International): 05, Book chapter: 01

1. S. Kumar, **K. Midya**, S. Ghosh, & S. Singh, (2021). Pixel-based vs. object-based anthropogenic impervious surface detection: driver for urban-rural thermal disparity in Faridabad, Haryana, India. **Geocarto International**, 1-24, (**Impact Factor 3.84**) (Scopus & SCI Indexed)
2. S. Roy, **K. Midya**, S. P. Duttagupta, and D. Ramakrishnan, "Nano-scale NiSi and n-type silicon based Schottky barrier diode as a near infra-red detector for room temperature operation", **J. of Appl. Phys.**, Vol. 116, p. 124507 (2014) (**Impact Factor 2.17**) (Scopus & SCI Indexed)
3. **K. Midya***, S. Dhar and A. Kottantharayil, "Trap characterization of silicon nitride thin films by a modified trap spectroscopy technique", **J. of Appl. Phys.**, Vol. 114, p. 154101 (2013) (**Impact Factor 2.17**) (Scopus & SCI Indexed)
4. M. K. Bose, **K. Midya** and C. Bose, "Effect of polarization and self-energy on the ground donor state in the presence of conduction band nonparabolicity in GaAs-(Al,Ga)As spherical quantum dot", **J. Appl. Phys.**, Vol. 101, p. 054315 (2007) (**Impact Factor 2.17**) (Scopus & SCI Indexed)
5. C. Bose, **K. Midya** and M. K. Bose, "Effect of conduction band non-parabolicity on the donor states in GaAs-(Al,Ga)As spherical quantum dots", **Physica E: Low-Dimensional Systems and Nanostructures,** Vol. 33, p. 116 (2006) (**Impact Factor 2.39**) (Scopus & SCI Indexed)