



Press Release

IIT Bhubaneswar and Banashree Semiconductors Partner to Advance Semiconductor Research and Innovation

Bhubaneswar, 5th August 2026: In a move to strengthen academia–industry collaboration in the semiconductor sector, Indian Institute of Technology (IIT) Bhubaneswar has recently signed a Memorandum of Understanding (MoU) with Banashree Semiconductors for joint research, industry-oriented education, training and innovation in advanced semiconductor technologies.

The MoU was signed on behalf of IIT Bhubaneswar by Prof. Vijay Shankar Pasupureddi, Dean, Sponsored Research and Industrial Consultancy (SRIC), and on behalf of Banashree Semiconductors by Dr. Chandramohan Umapathy, Director, in the presence of Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar. Dr. Navjeet Bagga, Assistant Professor and Dr. Sandeep Kumar Samal, Assistant Professor of the School of Electrical and Computer Sciences were present on the occasion.

It may be mentioned that Banashree Semiconductors is engaged in advanced silicon-node, low-power chip design and optimisation of power, performance and area (PPA), with a focus on reduced transistor-count (TAT) architectures for system-on-chip (SoC) applications. The collaboration brings together IIT Bhubaneswar's academic and research capabilities with Banashree Semiconductors' expertise in advanced silicon-node, low-power chip design and optimisation of power, performance and area (PPA), including reduced transistor-count architectures for system-on-chip (SoC) applications.

Under the five-year MoU, the two organisations will undertake joint R&D projects, development of design optimisation flows, faculty and student exchanges, internships, training and collaborative research. They will also explore externally funded research and consultancy projects and facilitate shared use of computing resources, design flows, laboratory facilities, testing infrastructure and research equipment.

A key focus of the partnership will be industry exposure and hands-on opportunities for students. IIT Bhubaneswar students may undertake internships, project work, training and research at Banashree Semiconductors, while the company's engineers and scientists may participate in collaborative research and academic activities at the Institute. The partnership also envisages joint workshops, seminars, short-term courses, conferences and research publications.

The partnership is expected to strengthen the interface between academic research and semiconductor industry requirements, while contributing to skilled manpower development and industry-relevant research in semiconductor design and allied technologies.
