



Silicon University

Advisory Committee

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Dean (Student Affairs), Silicon University, Odisha

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Prof. Chitaranjan Tripathy

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*Professor & Chief Mentor, Advanced VLSI Lab,
Silicon University, Odisha*

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Professor & Head, Dept. of EE, Silicon University, Odisha

Coordinator

Dr. Biranchi Narayan Rath

Silicon University, Odisha

Co – Coordinator

Dr. Sanghamitra Das

Silicon University, Odisha

Our Experts

Prof. Kunal Pal

Professor, NIT Rourkela

Mr. Mrinal Das

Head, SLM Hardware Design Group R&D, Synopsys Inc. Bhubaneswar

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Associate Professor, IIT Bhubaneswar

Dr. Debi Prasad Das

Senior Principal Scientist, CSIR-IMMT Bhubaneswar

Dr. Saroj Rout

Professor & Chief Mentor, Advanced VLSI Lab, Silicon University, Odisha

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Assistant Professor, MNIT Jaipur

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Dr. Pradyut Kumar Biswal

Assistant Professor, IIIT Bhubaneswar

Dr. Priya Ranjan Muduli

Assistant Professor, IIT BHU

Dr. Suman Samui

Assistant Professor, NIT Durgapur

Organizing Committee

All faculty & staff members of EE Department

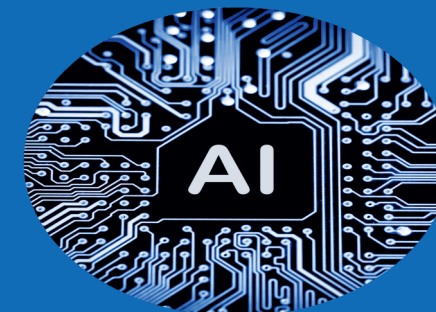
AICTE Training and Learning (ATAL)
Academy Sponsored

One Week Faculty Development Program

on

**AI/ML Solutions for Industry 4.0:
Applications Spanning from Embedded
Systems to VLSI Technology**

19th – 24th Aug, 2024



Organized by

The Department of
Electronics Engineering
Silicon University, Odisha

in association with



Objectives of the FDP

The Faculty Development Program (FDP) aims to equip faculties and research scholars with advanced skills and knowledge in AI/ML integration and Industry 4.0 technologies, particularly focussing on embedded systems and VLSI integration. Through this program, participants will deepen their understanding of these domains, enhance their proficiency in designing embedded systems, and learn to integrate cutting-edge concepts into academic curricula. The program also seeks to foster research collaboration, promote professional development, encourage innovation and entrepreneurship, and emphasize ethical considerations in AI/ML applications. Overall, the FDP aims to empower participants to undertake impactful research projects, advance their careers, and contribute to the development of AI-driven solutions for industry challenges.

Outcomes

1. Participants will acquire advanced skills and knowledge in AI/ML integration, embedded systems design, and VLSI technology, enabling them to stay updated with industry trends and academic advancements.
2. Faculty members will be equipped to integrate cutting-edge concepts into academic curricula, ensuring that students receive relevant and up-to-date education in AI/ML and Industry 4.0 domains.
3. Participants will be empowered to undertake high-impact research projects by leveraging AI/ML techniques and advancements in embedded systems and VLSI technology, contributing to the advancement of knowledge in these fields.
4. The program will facilitate networking opportunities and collaborative initiatives among participants, fostering interdisciplinary research collaborations and partnerships.
5. Participants will gain guidance and resources to support their research endeavors, including opportunities for publication in reputed journals and acquisition of research grants in AI/ML and Industry 4.0-related fields.
6. The FDP will support the professional growth of participants, including opportunities for career advancement, skill development, and recognition within academia and industry.
7. Participants will be inspired to explore innovative

applications of AI/ML and Industry 4.0 technologies, fostering a culture of entrepreneurship and industry collaboration.

8. The program will emphasize the importance of ethical considerations and responsible use of AI/ML technologies in research, teaching, and industry applications, ensuring societal benefit and inclusivity.

AICTE Training And Learning (ATAL)

AICTE is committed for the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. The Council understands that there is a need of the day to train the young generation in skill sector and having faculty technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable and to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country. Accordingly it was decided to the opening of AICTE Training and Learning (ATAL) Academies. As a part of its activities AICTE Training and Learning (ATAL) Academy will conduct an Basic FDP on AI/ML Solutions for Industry 4.0: Applications Spanning from Embedded Systems to VLSI Technology from 19th – 24th August 2024.

About The University

Silicon University, Odisha is a State Private University situated in Bhubaneswar, the capital of Odisha, India. Silicon Institute of Technology, Bhubaneswar, transitioned to Silicon University, Odisha, effective from January 31, 2024. Silicon Institute of Technology was established in in the year 2001 with a mission to provide value based quality technical education. Today the University is recognized as one of the centers of academic excellence with a vibrant research culture. The institute is constantly innovating and improving its curriculum to make the students ready for the demanding corporate world and the untiring effort is rewarded every year with excellent placement of the students in top national and multinational companies. The institution has a think tank comprising academicians, educational entrepreneurs, industry personnel and educationists. The institute is approved by AICTE, has three UG Programs in ECE, EEE and CSE accredited by NBA and ranked in the band 151 – 300 in the Innovation Category by NIRF in 2023.

About The Department

SiliconTech, the engineering institute of Silicon University, consolidated the Department of Electronics Engineering (EE) in 2023 by amalgamating the erstwhile departments of Electronics and Communication

Engineering (ECE) and Electronics and Instrumentation Engineering (EIE), established in 2001 and 2003, respectively. This consolidation aims to streamline academic offerings and foster interdisciplinary collaboration. The department is committed to providing a cutting-edge platform equipped with modern tools to tackle contemporary challenges and anticipate future developments in electronics and allied domains. Offering a comprehensive range of undergraduate and postgraduate programs, including B.Tech. in ECE and EIE, as well as specialized M.Tech. and M.Sc. programs, the Department caters to diverse interests within the field. Emphasizing a broad spectrum of fundamental concepts and practical skills, students delve into areas such as electronic circuits, communication systems, VLSI design, embedded systems, and industrial automation. By nurturing a research-intensive environment and cultivating partnerships with industry stakeholders and research institutions, the EE Department encourages innovation and entrepreneurship in electronics-related endeavors. Comprising seventeen state-of-the-art laboratories, the department provides students and faculty with exceptional facilities for hands-on experimentation, simulation, and prototyping across various domains, including communication engineering, microelectronics, digital signal processing, VLSI, and instrumentation design.

Resource Persons

The sessions will be handled by the experts on the subject from industry and other institutions of repute.

Who Can Apply?

Registration is FREE and open for all Faculties of all disciplines from AICTE approved institutions.

Registration Details

1. All the participants are requested to register using the following link:
<https://atalacademy.aicte-india.org/login>
2. For more information, please contact:

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Mr. Amulya Kumar Roul	9897647889
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