ATAL

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INNOVATION
COUNCIL
(Ministry of HRD Initiative)

IEEE
KOLKATA SECTION

AICTE TRAINING AND LEARNING (ATAL) ACADEMY

sponsored

Six Days FDP on
Futuristic Trends in Intelligent and Distributed Computing: Insights, Implementation and Applications

16ᵗʰ-22ⁿᵈ January, 2025

(Online Mode)

Organised by

Department of Computer Science and Engineering,

Veer Surendra Sai University of Technology, Siddhi Vihar, Burla

Sambalpur, Odisha-768018, www.vssut.in

With a history of more than 65 years, Veer Surendra Sai University of Technology is a state government technical University under administration of state of Odisha, Government of India. The institute offers 11 undergraduate B. Tech programs and 20 postgraduate M. Tech, 01 BArch, 03 MSc and Ph.D programmes in various disciplines of science, engineering and technology.

The faculty of academic departments and centers is involved in cutting edge research and development works. The institute collaborates very closely with research organizations, industries, alumni and other academic institutions both India and abroad, and has signed MOU's to pursue joint research in niche areas.

For more details, please visit vssut.ac.in

About CSE Department

The Department of Computer Science and Engineering was established in 1994. The Department offers B. Tech. degree courses in Computer Science and Engineering, Computer Science and Engineering (AI&ML), MCA and one full time master's course namely M. Tech. (CSE). The department also offers full time and part time PhD degree courses. Department has initiated a new B. Tech program in Computer Science and Engineering (AI&ML) in 2024. The department has excellent research facilities in the core and emerging areas of includes topics such as basic electronics, microprocessors, computer hardware, data structures, operating systems and advanced computer languages. like Embedded systems, computer networks, data mining etc.

For more details, visit website of the department,

https://vssut.ac.in/department.php?url=computer-science-and-engineering

About ATAL Academy

AICTE Training and Learning (ATAL) Academy, established by MoE, Govt. of India, holds the vision to empower faculty to achieve goals of higher education such as access, equity, and quality. Council understands that there is a need of the day to train the young generation in the skill sector and have faculty and technicians to be trained in their respective disciplines with latest tools and technologies.

The main objective of ATAL Academy is to plan and help impart quality technical education in the country and to support technical institutions in fostering research, innovation, and entrepreneurship through training in various emerging areas. It also provides a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer mentoring, and other FDPs. For more details, visit website of the ATAL Academy.

FDP Overview

The FDP titled" Futuristic Trends in Intelligent and Distributed Computing: Insight, Implementation, and Application" is a timely and significant initiative that addresses the rapidly evolving landscape of computing technology. This FDP offers participants a unique opportunity to delve into the forefront of computing research and development. By exploring the latest trends and advancements in intelligent and distributed computing, participants will gain a deeper understanding of the underlying concepts, methodologies, and applications.

FDP will empower young faculties & researchers to contribute to the development of innovative technologies and drive progress in various industries.

Objectives of the FDP

The FDP on Futuristic Trends in Intelligent and Distributed Computing aimed to equip participants with the latest knowledge and skills in AI, ML, and IoT, enabling them to apply cutting-edge technologies to real-world problems. It aims to foster collaboration between academia and industry, promoting knowledge sharing and networking. By addressing societal challenges through technological solutions, the FDP shall align academic research with industry needs, empowering faculty to contribute to a more intelligent and connected, sustainable future.

Contents of the FDP

The following are the tentative lecture titles for the FDP:

- Intelligent and Distributed Computing: Case Studies
- AI and Machine Learning: A Deep Dive
- The Internet of Things (IoT): Connecting the Physical and Digital Worlds
- Edge Computing: Bringing Intelligence to the Edge
- Cloud Computing: Scaling New Heights
- Cybersecurity in the Age of Digital Transformation
- Real-world Applications of Intelligent and Distributed Computing
- High-Performance Computing (HPC): Powering Scientific Discovery
- Big Data Analytics: Extracting Insights from Massive Datasets
- Natural Language Processing (NLP): Enabling Human-Computer Interaction
- Computer Vision: Seeing the World Through Computers
- Reinforcement Learning: Learning from Interaction with the Environment
- Quantum Computing: The Next Frontier of Computing

Outcomes of the FDP

The FDP is expected to yield several significant outcomes. Participants are anticipated to gain a deeper understanding of AI, ML, and IoT concepts, enhancing their ability to conduct cutting-edge research and develop innovative solutions.

Additionally, the FDP is expected to inspire participants to explore new avenues of research, contribute to the advancement of the field, through the application of intelligent and distributed computing technologies.

Experts

Prof. P. Radha Krishna

Professor, CSE, NIT, Warangal, Andhra Pradesh,India

Prof. Sung-Bae Cho

Professor, CSE, YONSEI University, South Korea

Prof. Debashis De

Professor, CSE, MAKAUT, West Bengal, India

Prof. Kiran Kumar Pattnaik

Professor, ABV–IIITM Gwalior, Madhya Pradesh, India

Dr. Sarat Chandra Nayak

Professor, CSE, GITAM University, Hyderabad, India

Dr. Pratyay Kuila

Associate Professor, CSE, NIT Sikkim, India

Dr. Sanjaya Kumar Panda

Assistant Professor, CSE, NIT Warangal, Andhra Pradesh, India

Dr. Deepak Ranjan Nayak

Assistant Professor, CSE, MNIT Jaipur, Rajasthan, India

Dr. Sandeep Singh Sengar

Senior Lecturer, CSE, Cardiff Metropolitan University, United Kingdom

Dr. Sohan Kumar Pande

Assistant Professor, CSE, Silicon University, Bhubaneswar, India

Dr. Satyajit Nayak

AI Architect & Valeo, India

Mr. Subrat Kumar Padhi

IT Service Manager, Energy Australia, Australia

Organizing Team

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Guidelines

The FDP will be conducted in Online mode. There will be 12 sessions in the span of six days. One session may be utilized for feedback and assessment. As per ATAL guidelines, no registration fees levied from the participants

Registration Link

Registration is compulsory for the participants. So kindly register before 30th December 2024. (Registration is limited to minimum of 100 participants on First come First serve basis).

For registration, use the following link Registration ID:
https://atalacademy.aicte-india.org/login

Eligibility

The AICTE sponsored FDP is open to the faculty members of AICTE approved institutions, research scholars (Post-Doc/ Ph.D./ M.Tech), participants from government, industry (bureaucrats / technicians/ participants from industry etc.) and staff of host institution.

Important Dates

Last date for application: 30th Dec. 2024
FDP start-end dates: 16th Jan. 2025 to 22 Jan. 2025

Venues

Event Venue: Seminar Hall, CSE Department, VSSUT