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The Compuverse

NEWSLETTER

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Department of Computer Science & Engineering

Computer Science serves as the foundation for various technological advancements that the world sees today. The field has grown by leaps and bounds. The future innovations that it brings along never seem to slow down. Yet another beauty of computer science is that it finds a place in many interdisciplinary fields as well. With these, there also comes a necessity to keep up to the global demand of finding highly skilled engineers and scientists. Swami Vivekananda University, one of the top-ranked t universities in India drives on the purpose of providing quality education and improving competence among students thereby living up to its motto, 'Progress Through Knowledge'.

Mission & Vision

The primary goal of a Department of Computer Science and Engineering is to advance knowledge and education in the fields of computer science and engineering. These departments are typically found to serve various objectives, including:

Education: The department aims to provide high-quality education to students at various levels, including undergraduate, graduate (master's and Ph.D.), and sometimes postgraduate diploma programs. The goal is to equip students with a solid foundation in computer science and engineering principles, theories, and practical skills.

Research: One of the key goals is to advance the state of knowledge in computer science and engineering through research. Faculty members and students engage in cutting-edge research projects that lead to innovations, discoveries, and contributions to the field's body of knowledge.

Innovation: Departments often foster an environment that encourages innovation and entrepreneurship. They aim to incubate new ideas, technologies, and startups that have the potential to address real-world problems and contribute to economic and societal progress.

Technology Transfer: In collaboration with industry partners, the department may work on technology transfer initiatives, facilitating the application of research findings in practical settings. This can include licensing intellectual property or collaborating on industry-sponsored projects.

Professional Development: The department often focuses on the professional development of its students by providing opportunities for internships, co-op programs, and industry connections. The goal is to prepare students for successful careers in computer science and engineering-related fields.

EDITOR'S MESSAGE

The Department has state-of-the-art infrastructure and computing equipment supported by high-speed Ethernet and wireless networks. Our faculty members aim to deliver top-class education by blending their rich research experience with classroom teaching.

The students are motivated to participate in Curriculum, Co-Curricular, and Extra-Curricular Activities. They are encouraged to attend National, State, and international Workshops and Conferences to enhance their knowledge. Students are also encouraged to attend Value-Added Courses and do mini projects on new technologies to bridge the gaps between the curriculum, industry needs, and the software development process.

We are overwhelmed by the response that we received from students, faculties and staff in making this newsletter possible. In this newsletter, we have reported different activities, such as departmental publications and RAC for PhD Title registration. We would like to also thank Dean of Science and Program Coordinators and other faculty members for providing information and valuable suggestions. I hope you will enjoy reading this issue!!!

Activities Timeline of January

- ✓ A PhD Pre-Submission Seminar scheduled for 04-01-2025 at 11 AM in NND309B for Three PhD scholars.
- ✓ A RAC meeting of the assigned scholars of 2023 admission batch on 4th January 2024, Saturday from 1 PM at BNB 202
- ✓ A RAC meeting of the assigned scholars of 2023 admission batch on 11th January 2024, Saturday from 1 PM at BNB 205
- ✓ RET viva for CSE dept for 2024 admission batch on 25th January 2025, Saturday, from 11 Am at BNB 210.

What is in Next Issue?

ICEDC conference news will be available in the next issue.

A RAC meeting for PhD 2023 Batch.

A RAC meeting was held at our School of Computer Science / Department of Computer Science and Engineering. Prof. Himadri Biswas, Dean of BBIT, attended as the External Expert of the RAC meeting of the assigned scholars of the 2023 admission batch on Saturday, January 11th, 2024, from 1 PM. This RAC was held in physical mode at our University campus. Other doctoral faculty members of the CSE department were present.

The Following scholars were present following:

Maumita Das
Suchandan Ganguly
Souvik Mazumder
Ankita Saha
Joy Kumar Mallick
Subrata Mapa
Shatadru Sengupta
Anjan Bera
Bablu Pramanik
Bidyut Roy
Mou Majhi
Suparnesh Bhattacharyya
Sandip Roy
Solanki Pattanayak
Supriya Maity
Samaresh Santra

The meeting ended with a Vote of Thanks.

Departmental Faculty Members Patent Publication

There are Patents published by the CSE Dept Faculty members in 2024

Name of the Faculty	Title	Application Number
Sumana Chakraborty, ourav Saha, Sangita Bose, Jayanta Choudhury	Cardiovascular Diseases Prediction using Multimodal Methodology in Deep Learning	202431093353A
Sumana Chakraborty, ourav Saha, Sangita Bose	Brain Tumor Prediction using Machine Learning	202431092982A
Sangita Bose, Sourav Saha, Diganta Bhattacharyya	YOUTUBE CLONE VIDEO LIBRARY	202431093720A
Somsubhra Gupta, Sangita Bose, Sourav Saha, Jayanta Choudhury, Diganta Bhattacharyya	Crime pattern analysis and rate prediction	202431093827A
Jayanta Choudhury, Somsubhra Gupta, Apurba Sarkar, Sourav Saha, Sangita Bose	Motion Maze-where Gestures Lead to Gaming Adventures	202431094152A
Somsubhra Gupta, Sangita Bose, Sourav Saha, Diganta Bhattacharyya	Data analysis using machine learning on geo location data	202431094195A
Sanjay Nag, Sourav Saha, Sangita Bose, Jayanta Choudhury	Parameter monitoring of incubator using IoT and Cloud	202431094855A
Sangita Bose, Sourav Saha, Jayanta Choudhury, Diganta Bhattacharyya	Face mask detection in real time	202431095248A
Jayanta Choudhury, Apurba Sarkar, Sourav Saha, Sangita Bose	Virtual Trial Room	202431095278A
Sangita Bose, Sourav Saha, Jayanta Choudhury, Diganta Bhattacharyya	A Heart arrhythmia prediction using Artificial neural network	202431095820A
Somsubhra Gupta, Sangita Bose, Sourav Saha, Diganta Bhattacharyya	Heart disease prediction from symptom analysis using machine learning	202431095834A
Sangita Bose, Jayanta Choudhury, Diganta Bhattacharyya	Blockchain crowdfunding platform	202431091485A
P.Das, B.Neogi, S. Gupta	MUSIC THERAPY DEVICE FOR DEAF AND DUMB	202331085483 A
Bablu Pramanick, Somsubhra Gupta, Saurabh Adhikari, Sourav Saha, Abhishek Dhar, Ranjan Kumar Mondal	Robotic vehicle using ATMEGA328 microcontroller, ultrasonic sensor and Bluetooth for wireless control and data feedback, obstacle avoidance and autonomous maneuvers with precise area scanning	202431006559A
S. Gayan, D. Das, S. Gupta, S. Bose, S. Chakraborty, S. Nandi	Hybrid Compiler	202431039789A
Bablu Pramanick, Somsubhra Gupta, Saurabh Adhikari, Sourav Saha, Abhishek Dhar, Ranjan Kumar Mondal	ROBAL: A Robotic vehicle with Auto balancing	202431040106A
S. Gupta, S. Shaha	Smell sensing and actuation using embedded device over the network	202431040109A
S. Gupta, C. Paul, J. Chowdhury, P. Sahoo, A, Dey, M.Dubey, B.Chatterjee	SHARP: A compiler incorporating auto debugger with floating point arithmetic and variable length of Data	202431056805A