



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 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



It is with great pride and immense pleasure that we present to you this edition of our Departmental Newsletter, covering the remarkable journey, accomplishments, and advancements of the past two years, with a list of last year's publications. This period has been one of dynamic growth, collaboration, and collective achievement—made possible by the unwavering commitment of our faculty, students, and staff.

Our department continues to thrive on a strong foundation of **state-of-the-art infrastructure** and advanced computing resources, supported by high-speed Ethernet and wireless networks that enable seamless academic and research activity. This robust technological framework has empowered both faculty and students to engage deeply with emerging fields and innovative solutions.

Over the past two years, our **faculty members** have remained dedicated to delivering top-class education by blending their extensive research experience with effective and engaging classroom teaching. Their relentless pursuit of academic excellence has not only enriched the learning environment but has also inspired our students to explore, question, and excel.

Our **students** have demonstrated exceptional enthusiasm in participating across the **Curriculum, Co-Curricular, and Extra-Curricular activities**. They have embraced opportunities to attend **National, State, and International Workshops and Conferences**, elevating their knowledge, expanding their networks, and gaining invaluable exposure to global academic and professional communities. Many students have also pursued **Value-Added Courses and innovative mini projects** on new technologies—efforts that bridge the gap between curriculum requirements, industry expectations, and real-world software development challenges.

This newsletter highlights key milestones of the last two years, including the successful conduct of the **PhD coursework examinations**, vibrant departmental activities, various faculty and student **achievements**, and a comprehensive compilation of **research publications**. It stands as a collective chronicle of our progress and an inspiration for the future.

We are truly **overwhelmed by the warm support and enthusiastic contributions** received from our students, faculty, and staff. This edition would not have been possible without your active participation, thoughtful inputs, and creative energy.

We would also like to extend our sincere gratitude to the **Dean of Science**, Program Coordinators, and all faculty members for their invaluable support, information sharing, and constructive suggestions throughout the preparation of this newsletter.

As you explore the pages ahead, we hope you will enjoy reading about the achievements, stories, and milestones that define our department's journey over these two fruitful years. May this edition continue to motivate, inform, and connect us as we stride confidently toward future accomplishments.

Happy Reading!

Departmental Activity

Student Achievement: RUPASHI SETHI – B.TECH CSE – 5th Semester, Roll no – 002-BCS-2023-301 has been selected for an internship (I4C-MHA Internship) at the Cyber Crime Wing, Meghalaya, Shillong.

Madam,

With reference to the subject cited above, this is to confirm the acceptance of your request under I4C-MHA Internship (Programme) for Internship to the Cyber Crime Wing, Meghalaya, Shillong. You may join the internship on the 5th of January, 2026 and report to Cyber Crime Wing, CID, Meghalaya, Shillong.

Submitted in favour of kind information and necessary action.

Respectfully,
Superintendent of Police (Cyber),
Meghalaya, Shillong.

Faculty Publications:

Alok Roy, Somsubhra Gupta and Ranjan Kumar Mondal, "Enhancing Outcome - based Education through NOODLE: A Secure Environment Approach", Vol.16 / Issue 92 / Oct / 2025, ISSN: 0976 – 0997, Indian Journal of Natural Sciences.

A meeting with Prof. (Dr.) R. S. Salaria Sir

A year Ago



Swami Vivekananda University organized a masterclass for final-year and pre-final-year students of the Computer Science and Engineering Department, led by Prof. (Dr.). R.S. Salaria is an esteemed professor and an esteemed author from Guru Nanak Institutions. We are immensely grateful to Dr. Salaria for sharing his valuable knowledge and insights during this enriching session. His expertise has undoubtedly inspired and empowered the students in their academic and professional journeys.

Departmental Last Year Publications

Faculty Name	Name of the Book/ Conference	Name of the Article	ISBN / ISSN number	Name of the publisher
Dr. Abhijit Paul	IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON)	Enhancing Ultrasonic-Based Distance Measurement Accuracy Through Error Correction Mechanism	979-8-3503-7464-3	IEEE
Dr. Abhijit Paul	International Conference on Emerging Applications of Information Technology	Water Distribution Network Using IoT Sensors for Residential Areas from Household Rainwater	978-981-97-7531-6	Springer
Dr. Abhijit Paul	Intelligent Systems and Simulation Mathematical and Environmental Modeling	Book Recommender System Using Collaborative Filtering	9781032799810	CRC Press
Dr. Abhijit Paul	Innovations Across Disciplines: Advancements in Engineering, Technology, and Sustainability	IoT: Unravelling the Digital Realm - A Comprehensive Guide to the Laws of IoT in India	9788197442759	Inspira, Jaipur
Dr. Abhijit Paul	Advanced Paradigms in Transdisciplinary Research	Water Quality Prediction Using Machine Learning: A Smart Approach for Real-Time Monitoring	9789349468955	MGM publishing house
Dr. Abhijit Paul	Digital Design and Engineering in the Age of AI	Blockchain-Enabled Secure Communication Protocols for Internet of Things Networks: A Survey	978-93-6233-668-2	Bright Sky Publications
Dr. Abhijit Paul	Technology Foresight and Transformation	Optimizing Data Transmission in 5G Networks: A Comprehensive Study on Spectrum Efficiency and Latency Reduction	978-81-989217-7-2	Ideal Publication
Dr. Abhijit Paul	Multidisciplinary Insights in Modern Engineering	Smart Residential Water Leakage and Overuse Detection System using Machine Learning	978-93-6135-956-9	AkiNik Publications
Dr. Chayan Paul	Deep Learning Applications in Medical Image Segmentation: Overview, Approaches, and Challenges	Deep Learning Transformations in Medical Imaging: Advancements in Brain Tumor, Retinal Vessel, and Inner Ear Segmentation	9781394245369	Wiley
Dr. Chayan Paul	Multidisciplinary Perspectives in Mechanical and Applied Sciences	Predicting Share Prices Using RNN and Its Variants	978-81-974427-5-9	AkiNik Publications
Dr. Chayan Paul	Digital Design and Engineering in the Age of AI	State of the Art in Text Classification: A Deep Neural Networks Perspective	978-93-6233-668-2	Bright Sky Publications
Dr. Chayan Paul	Advances in Sustainable Technologies: Emerging Trends and Applications	Brain Tumor Detection using Deep Learning Algorithms	978-81-974962-2-6	Reyansh Global Research Foundation
Dr. Chayan Paul	Frontiers in Interdisciplinary research	Sustainable Artificial Intelligence and its Application	978-81-952903-2-1	Imprint of Consortium E-Learning Network Pvt.
Dr. Chayan Paul	Insights in Applied Science and Engineering	Comparative Methods in Genetic Feature Discovery Using Statistical Tests and Machine Learning Approaches	978-81-988187-0-6	Ideal Publication
Dr. Payal Bose	International Conference on Computational Intelligence	Innovative Skin Disease Diagnosis: A Hybrid Learning Framework for Skin Cancer Detection	978-981-96-4539-8	Springer