SWAMI VIVEKANANDA
UNIVERSITY

NEWS LETTER

VOLUME-I, ISSUE-2

Department of Computer
Science & Engineering

THE COMPUVERSE

SWAMI VIVEKANANDA UNIVERSITY

EXCELLENCE. INNOVATION. ENTREPRENEURESHIP

COMMITTEE AND EDITORIAL BOARD

Published: 20.02.2024

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'.

MESSAGE DESK

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

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.

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EDITOR'S MESSAGE

Primary objective behind this initiation is to strengthen our ties with our students, alumni, parents, industries and all other stack holders of the institute. The newsletter indents toact as a communication tool that will not only give information about activities on campus but also will educate, inform and motivate its readers on various issues of interest. It will alsoprovide a platform to an individual to disseminate creative ideas. 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 significant achievements and activities of departments as well as faculties. Details of last year events held on campus are also reported. 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!!!

UP COMMING EVENTS

An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees

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MISS SANGITA BOSE

Assistant Professor, Department of Computer Science and Engineering, School of Computer Science, Swami Vivekananda University, represented behalf of CSE at the VLSID 2024, which took place from 6-10th January at ITC Royal Bengal, Kolkata.

The conference provided a platform for professionals and experts in VLSI design to share insights, discuss emerging trends, and collaborate on advancements in field. This report outlines the key takeaways, notable presentations, and the impact of the conference on Computer Science. The knowledge gained from the conference will directly contribute to enhancing Computer Science initiatives in the following ways:

Insights from presentations will be applied to refine our current strategies, optimizing our approaches in VLSI.

Collaborations: Networking opportunities have paved the way for potential collaborations with other departments, institutions, or industry partners, allowing for shared resources and expertise.

Professional Development: The conference has enhanced my professional growth by exposing me to diverse perspectives and the latest advancements in the field.

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On January 14th and 15th, 2024, our university campus hosted an intensive two-day hands-on training session focused on CUDA programming, a pivotal aspect of GPU programming. The session was conducted by a seasoned expert in the field, providing students with comprehensive insights into the intricacies of GPU and CPU operations.

Throughout the two days, participants delved into both theoretical concepts and practical applications, gaining a deep understanding of the functionalities and interactions between GPUs and CPUs. The training session offered a balanced blend of lectures, discussions, and practical exercises, enabling students to grasp complex concepts and apply them in real-world scenarios.

By actively engaging in hands-on activities, attendees were able to solidify their understanding of CUDA programming, exploring its potential for parallel computing and accelerated processing. The expert facilitator guided students through various exercises, allowing them to write and execute CUDA code, optimize performance, and troubleshoot common issues.

Overall, the two-day training session provided a valuable opportunity for our students to enhance their skills in GPU programming and broaden their knowledge of computational techniques. Participants left with confidence in utilizing CUDA for high-performance computing tasks, poised to leverage their newfound expertise in future academic and professional endeavors.