



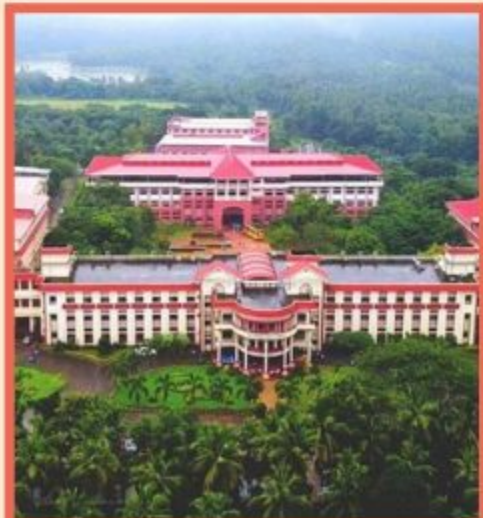
TECH PULSE

VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2023-2024

ISSUE : 6 VOLUME : 3



our vidya our pride

Vision

Progress through quality education and become a centre of excellence in computing knowledge

Mission

To seek, to strive for advancements in technological and social aspects so as to create socially responsible engineers in the field of computer science, who will embark to further reduce gap between science and man-kind.

Program Outcomes (POs)

PO-1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Computer Science & Engineering specialization to the solution of complex engineering problems.

PO-2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO-3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO-6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary surroundings.

PO-10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO-11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO-12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO-1: The ability to apply the knowledge of computational structures and algorithms for solving complex engineering problems in multidisciplinary areas.

PSO-2: The ability to design, develop and evaluate computer based systems using advanced tools and technologies to meet the real world challenges.

Program Educational Objectives (PEOs)

PEO-1: Graduates shall practice Computer Science and Engineering in IT industry, public sector undertaking, as an entrepreneur or as a researcher pursuing a successful professional career.

PEO-2: Graduates shall demonstrate creativity, develop innovative ideas and work in teams to accomplish a common goal.

PEO-3: Graduates shall demonstrate project management skills, lifelong learning and social awareness upholding ethical values.

FROM THE HEAD'S DESK: ISSUE HIGHLIGHTS

Message From HOD



It is a matter of pride to share the latest edition of our department newsletter, highlighting the vibrant

academic and professional activities carried out during this period. Our department continuously endeavors to create a learner-centric environment that promotes innovation, critical thinking, and lifelong learning, by integrating emerging technologies, industry exposure, and research-driven practices into the curriculum, we prepare our students to meet global challenges with confidence.

I sincerely congratulate our students and faculty for their achievements and thank all stakeholders for their continued support. Let us move forward together with commitment and enthusiasm toward excellence.

About Department

The department was established in the year 2003 with the commencement of a B.Tech programme in CSE with an Intake of 240 students and the programme is affiliated to the APJ Abdul Kalam University, Trivandrum, Kerala. We strive to provide the holistic and inclusive ambience to embellish their knowledge and skills to achieve their long-term goals.

ACADEMIC ACTIVITIES

ALUMNI INTERACTION

To provide students with valuable tips for preparing upcoming Hackathon Contest, the Dept of Computer Science and Engineering (CSE) hosted an online alumni talk on 13 March 2024 at 7.00pm. Mr Vishnu Prasad (Chief of Staff, SynerAI, United States, 2015-2019 Batch, CSE Dept) and Mr Nikhil P S (Senior Frontend Developer StreamFT, United States, 2015-2019 Batch, CSE Dept) served as the resource persons.

The CSE department, under the guidance of Dr. Ramani Bai V and Ms. Mrithu A S, successfully partnered with EY Kochi through the EYKalalayam project—an initiative facilitated by alumna Ms. Ancy Anto (2009-13 Batch)—to provide soft skill and personality development training to 120 students on 18 March 2024.

FACULTY DEVELOPMENTS AND ACHIEVEMENTS

FDP ATTENDED

Dr Ramani Bai V (Professor, HoD CSE Dept) participated in two-day Workshop & FDP on NLP and Large Language Models (N-Large) during 5 -6 April 2024 organised by Department of Computer Science and Engineering, Indian Institute of Information Technology Kottayam.

The Department of Computer Science and Engineering at Vidya Academy of Science and Technology, in association with Indian Society for Technical Education (ISTE), conducted a three-day online Faculty Development Program on “Research Foundations and Perspectives of Data Science and Deep Learning” from 12–14 February 2024, with 94 faculty participants from AICTE-approved institutions gaining insights into data science research, tools, and deep learning applications.

Ms Anitha L (Asst Prof, CSE Dept) and Ms Prajitha M V (Asst Prof, CSE Dept) attended “Machine Learning with TensorFlow” boot camp conducted by ICT Academy of Kerala in association with Google at ICT Academy of Kerala, Infopark, Koratty on 22 November 2023.

Dr Ramani Bai V (Professor & HoD, CSE Dept) attended five days workshop and FDP on “N-Hans: NLP Hands-on Program on Transformers and LLM” during 12-16 December 2023 organized by Indian Institute of Information Technology Kottayam.

NPTEL

Ms Neethu P R (Asst Prof, CSE Dept) cleared NPTEL certification course on ‘Introduction to Database Management System’ conducted by IIT Madras during Jan – April 2024.

STAFF ACHIEVEMENTS

It is with a great sense of pride and delight, the Editorial Team of News & Events is sharing the news that Ms Neethu P R (Asst Prof, CSE Dept) achieved the “Java Foundation Certification”, which is an online proctored examination through the Infosys Springboard learning platform. Ms Neethu is the first faculty from Vidya to achieve this title.

In this regard, Dr Ramani Bai V (HoD, CSE Dept) served as a reviewer for evaluating submitted papers, ensuring that each piece aligns with the event’s theme in an International Conference on Theoretical and Applied Computing (ICTAC), organized by Amal Jyothi College of Engineering sponsored by DST SERB during 14-16 February 2024.

It is with great pleasure and honor that the Dept of CSE is sharing the news that, Dr Shameem S, (Asst Prof, CSE Dept) has successfully defended her PhD thesis titled “Performance Analysis Of Distributed Raman Amplifier In DWDM Communication Systems”. The rigorous session took place on 16 February 2024 in front of an esteemed panel of experts at the VIT Chennai.

WORKSHOPS CONDUCTED

The Department of Computer Science and Engineering at Vidya Academy of Science and Technology organized a three-day workshop titled “Data Science Projects: Industry Perspective & Practices” from 05–07 February 2024, providing students with hands-on training in data analysis, machine learning, deep learning, computer vision, and natural language processing from academic experts



The CSE Department of Vidya Academy of Science and Technology organized a one-day workshop on “Introduction to Data Science for Engineers using Python” on 27 February 2024 for polytechnic students, handled by Dr. Ramani Bai V and Ms. Thulasi Rajan K, with coordination support from Ms. Lalini K U, where participants also explored the Infosys Springboard platform.



STUDENT ACHIEVEMENTS

TOPPERS

S7 9.0+SGPA



Sivakami Prasanth



Sreyas Unni



Antony Sunny



Febin Rajan



Ragitha G



Neeraja
Krishnakumar



Haritha Tony



Athulia T Rajesh



Hanna Jose

S5 9.0+SGPA



Lakshmi Krishnan



Sreelakshmi V B

S3 9.0+SGPA



Teresa Benny



Nimisha Boban



Vasisht Nirmal K V



Sidhinchandran C S



Nandhana Sajeesh



Fathima Nasrin



Vidhu Vishwak



Mahadevan



Nived Krishna A



Aljin Joby



Nice Rose C J



Lakshmi M S



Parthiv Dinesh



Aysha Saleem M

S1 9.0+SGPA



Anuja Raj



Alokh M K



Darsana M S



Bhadra M U



Anagha V S



Aiswarya Lakshmi
C J



Anasooya A G



Suha I A



Jithisha U J



Aswin R Nair



Archana A D



Anagha Raj

PLACEMENTS



Amal Gopi



Royce Simon



Aswin M



Joyal Jaison



Lena Biju



Rahul Peter



Merin James



Evelina Rose Joju



Binil VB



Sarang C Santhosh



Rohan C R



Shanavas R S

RESEARCH CONTRIBUTIONS & NPTEL

Sradha Siju, Sreelakshmi V B, Susan P Babu, and Megha M B (S8 CSE) of Vidya Academy of Science and Technology presented the paper “Newswrap – Fake News Detection & Summarizer Using NLP” at the International Conference on Research Advances in Engineering and Technology (ITechCET 2024).

Jibin Cheruvathoor Baby, Anurudh Deepan, Joseph Tony, and Abishek Thalikulam Baiju (S8 CSE) of Vidya Academy of Science and Technology presented a paper at the International Conference on Research Advances in Engineering and Technology (ITechCET 2024).

Dr. Ramani Bai V along with Suryajit Sudheeran, Rohit Chelat, Sudarsanan Prince, and Sreenath Sadanandan (S8 CSE) of Vidya Academy of Science and Technology presented a paper at the International Conference on Research Advances in Engineering and Technology (ITechCET 2024).

Nevin Nelson, Sudhama Swaminathan R, Vishnukant P K, and Vishnu Sudheer (S8 CSE) of Vidya Academy of Science and Technology presented the paper “Automated Voice-Controlled PowerPoint Presentation Generation System from Voice/Text Prompts” at the National Conference on Research in Emerging Areas (NACORE 24).

the Dept of CSE is sharing the news that Adnan Mohamed Rias (S8 CSE Dept), Deepak Nair V P (S8 CSE Dept) and Anoop Vikram V T (S8 CSE Dept) along with Ms Anitha L (Asst Prof, CSE Dept) presented a paper titled “Advancements In Automated Resume Assessment: A Comprehensive Survey” during the fourth National Conference on Recent Innovations in Computer and Information Technology (RICIT 24) held at College of Engineering Perumon, Kollam during 18 – 19 April 2024.

Dr Ramani Bai V (Professor & HoD, CSE Dept) jointly with Mr Pranav Sudhir, Ms Rashmi Joshi, Mr Vighnesh Nair and Mr Vishnu Anilkumar published a paper titled “Smart Contract Based Carpooling Application for Secure and Efficient Ride Sharing” in 3rd IEEE International Conference on Recent Advances in Systems Science and Engineering (RASSE 2023), organized and hosted by Saintgits College of Engineering, Kottayam, Kerala, during 08-11 November 2023.

It is with much pleasure, the Dept of CSE is sharing the news that Vasisht Nirmal K V (S3,CSE Dept) cleared NPTEL examination of the course ‘Design and Analysis of Algorithms’ with a consolidated score of 76%.

Febin Rajan and Ignitius Nobel (S8 CSE) of Vidya Academy of Science and Technology presented their mini-project paper “Exercise Monitoring using Machine Learning” at the International Conference for Theoretical and Applied Computation held at Amal Jyothi College of Engineering.

The proud girl students from Vidya got an electrifying experience to be a participant at the 12 hour(overnight) hackathon ‘Tink-Her-Hack 2.0’ conducted by TinkerHub during 24-25 February 2024. Susan P Babu (S8, CSE Dept),Varada Menon (S8, CSE Dept) and Shreya Dilip (S8, CSE Dept) attended at Tink-Her-Hack, possibly one of Kerala’s largest women-only hackathon.

CLUBS AND PROFESSIONAL SOCIETY ACTIVITIES

The Dept of CSE provides different platforms to students for illustrating skills required in the IT field and to unveil the strategies for navigating the success in technology. The Dept conducted online session on 'DEVBYTES' by Google Developer Students Club (GDSC) on 25 May 2024, focusing on the benefits for upcoming first year students. The session was handled by Vidya alumni Ms Gayathri Satheeshkumar (Associate Engineer Litmus7, 2019-23 Batch, CSE Dept) and Sujishna V P (S8, CSE Dept). The welcome address was given by Dr Ramani Bai V (HoD, CSE Dept).



The Google Developer Students Clubs (GDSC) at Vidya Academy of Science and Technology organized an online technical session titled "Get Started with Go" on 27 February 2024, delivered by alumnus Aadithye N, Associate Engineer at Litmus7, where students were introduced to the fundamentals and applications of the Go programming language, with the session inaugurated by Dr. Ramani Bai V (HoD, CSE) and coordinated by the GDSC team.



MERIT DAY

On April 29, 2024, the CSE Department celebrated "Merit Day" to honor the 2023-24 academic year's successes. Highlights included the "Best Project" award for the "Sign Companion App," the release of the technical magazine DATAVIKALPA, and the crowning of Appu K as the "Gem of CSE." Following addresses by HOD Dr. Ramani Bai V and Principal Dr. Saji C.B., students were recognized for excellence in academics, placements, and sports. The event, which also featured a video of departmental milestones and a Rangapooja, concluded with a DJ session and a renewed sense of pride.



TECHNICAL AND CULTURAL ACTIVITIES

FAREWELL

The CSE department's 2020-24 batch bid a nostalgic farewell on 04 May 2024, featuring a moving address by Dr. Ramani Bai (HoD, CSE Dept), expressions of gratitude to mentors, and a vibrant celebration including cultural performances and a DJ session to mark their transition to professional endeavors.

TECH FEST

The Computer Science and Engineering Department organized RESPAWN, Kerala's second-largest LAN-based Esports tournament, as part of VYVIDH 2K24 held on 29 February–01 March 2024. The event attracted enthusiastic participation from students and gaming enthusiasts, providing a competitive platform that showcased strategic thinking, teamwork, technical skills, and sportsmanship.



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