



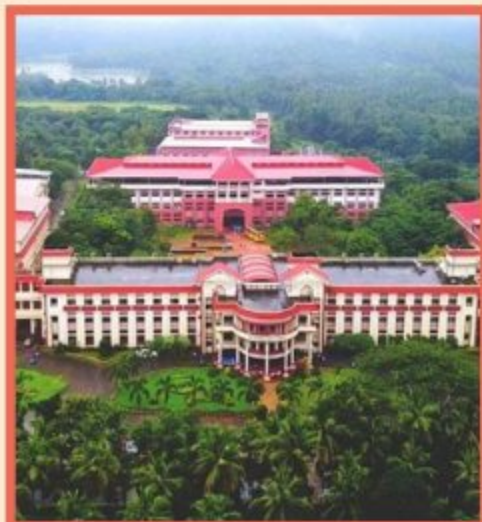
TECH PULSE

VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2022-2023

ISSUE :3 VOLUME :2



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 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

EXTERNAL INTERACTION

The Department of CSE at Vidya Academy of Science and Technology organized an inspiring technical talk titled “Remaining Relevant for a Successful Career” on January 5, 2023, featuring Mr. PramodKumar Karunalayam (Head of Platform Operations in East Asia and Japan at Philip Morris International) as the resource person for first-year B.Tech students. The session emphasized three pillars of professional growth: Self-Awareness, by reflecting daily on strengths and weaknesses; Career Vision, by distinguishing a lifelong career progression from a single job; and Continuous Relevance, by upgrading skills to remain marketable and dynamic. Mr. Karunalayam urged students to focus on “learning how to learn” to become indispensable to employers, concluding with an interactive Q&A and a vote of thanks by Dr. Ramani Bai (HoD, CSE Dept), providing the students with a clear roadmap for success in the software development industry.

FACULTY DEVELOPMENTS AND ACHIEVEMENTS

FDP ATTENDED

Ms Shameem S (Asst Prof, CSE Dept) participated and successfully completed a five-day face to face UHV-II Faculty Development Programme on Universal Human Values at Mar Baselios College of Engineering and Technology (Autonomous), Trivandrum during 29 August – 02 September 2022. The workshop was organised by AICTE for the faculty members of technical institutions .

Mr. Shine P Xavier (Asst Prof, CSE Dept) participated and successfully completed a five-day FDP on “Machine Learning-A trajectory through The world of adaptive algorithms” organized by the Department of Computer Science and Engineering, Jyothi college of engineering, Thrissur in association with ICT Academy of Kerala during 22-26 August 2022.

The Vidya Centre for AI and Research (VCAIR), Dept of CSE, in collaboration with TCS, organized a five-day online Faculty Enablement Program (FEP) on “AI & ML-Industry Practices and Perspectives” from September 12–16, 2022. Inaugurated by Mr. Rajeev M A (TCS AI Lab Head) alongside Dr. Saji C B (Principal) and Dr. Ramani Bai V (HoD, CSE), the program featured expert sessions on AI Trends, ML Use Cases, Computer Vision, NLP, and Conversational AI led by TCS resource persons. Conducted via Google Meet with resource materials shared with faculty and research scholars, the event concluded with a vote of thanks by Mr. Shine P Xavier (Asst. Prof, CSE).

The Dept of CSE, in collaboration with Vidya Research Cell, hosted a webinar on “Empowering Qualitative Research Methods with AI” on August 25, 2022. Led by Ms. Shameem S (Asst. Prof, CSE), the session explored integrating AI to enhance qualitative research practices. The interactive webinar provided approximately 30 attendees, including faculty and M.Tech scholars, with a platform for knowledge exchange on innovative research approaches.

Dr Beena M V (Asst Prof, CSE Dept) received her PhD certificate in the 42nd annual convocation held in Anna University Chennai on 29 July 2022 for her thesis titled “A Deep Neural Network Architecture for the Recognition of American Sign Language from Depth Maps”. Sri Narendra Modi (Prime Minister of India) was the chief guest of the function. The research was carried out under the guidance of Dr M N Agnisarman Namboodiri (former HoD and Professor, CSE Dept, Vidya) and Dr Rani Thottungal (Professor , EEE Dept , Kumaraguru College of Engineering, affiliated to Anna University Chennai)

STUDENT achievements

CSE S5 students from Vidya Academy of Science and Technology demonstrated exceptional technical prowess by securing top honors at the ZYPHER techfest, held at Sahrdaya College of Engineering and Technology, Kodakara, on December 2–3, 2022. Out of 27 participating teams from across Kerala, Vidya’s team ‘Lynis’—comprising Appu K, Anurag Chandra, and Shanavas R S—emerged as the champions, winning the first prize and a cash award of ₹20,000. Another team, ‘Cyber Pirates’ (consisting of Ignatius Nobel, Febin Rajan, and Jibin C Baby), secured the third prize with a cash award of ₹8,000. The event also saw active participation from teams ‘Bug Busters’ and ‘Vikings’, who gained valuable experience in high-level programming and algorithmic challenges, further highlighting the department's commitment to skill enhancement and experimental learning.

One of our final year M. Tech Computer Science Engineering student, Ms. Sooryapraha TS has recently been selected to do her final semester internship with TCS at their AI Lab located at Kochi.

We are pleased to share the news that the students (Sriya Baburaj, Sreeram, Vrinda V, Vighnesh Nair) of S7 CSE Dept, secured first position in Excogitate Project Demonstration Competition in the TechFest ‘NOVUS 2022’ held at St Thomas college (Autonomous), Thrissur. The ceremony for the distribution of certificate and cash prize was held on 04 November 2022 at St Thomas College, Thrissur.

TOPPERS

S5 9.0+SGPA



Vyshnav M



Pranav Sudhir



Pooja M



Swetha T P



Sriya Baburaj

S1 9.0+SGPA



Lakshmi Krishnan



Jidhin N S



Sreelakshmi V B



Akash R



Saurave V S



Megha Raj

PLACEMENTS



Aaryaka P Nath



Anjana A



Anjana ER



Aparna KS



Guruprasad S



Harikrishnan KM



Mohamed
Ijas



Nandakishor T



Rajaram
Reghuram



Sreekumar
PR



Sriya Baburaj



Swetha TP



Vydharsh KR



Joshna Joshy



Guruprasad S



Azhar Jaman
M H



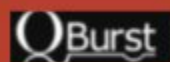
Abel John
Regi



Aadithye N



Thashreef
Mohammed



Abel John Regi



Vyshnav M



Megha



Gayathri Jyothish

Muraleedharan



Gopika S G



Aravind K R



Abhijith Jayan



Thashreef
Mohammed



Gayathri Satheesh
Kumar



Pooja M



Rajaram Reghuram



Keerthana P P



Swetha T P



Ciya Rose Joshy



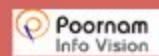
Megha
Muraleedharan



Arya A J



Leya Mary Sunil



Abel John Regi



Vyshnav M



Abhinav Ashokan
M



Arya A J



Sherin KA



Ciya Rose Joshy



Clinda Rose
V J



Pooja M



Lijesh TU



Susan Wilson



Abhay Kumar V



Dheeraj R Rajaram



Reghuram



Safna R M



Megha
Muraleedharan



Shabeeb Rasheed



Visal K S



Pranav Sudhir



Vyshnav M



Aadithye N

RESEARCH CONTRIBUTIONS

Ms. Sneha Haridas and Dr. Ramani Bai V from the CSE Department presented their research paper on Bharathanatyam Mudra detection using enhanced deep learning at the 2022 IEEE-sponsored International Conference held at the College of Engineering, Perumon.

Dr. Ramani Bai V (HoD, CSE Dept) and Ms Poornima Sankar (M Tech 2018-2020 Batch, Assistant System Engineer, Tata Consultancy Services, Chennai), presented an online paper titled 'Survival Analysis on Relapse Predictions of Breast Cancer using Optimized ANN and DeepSurv Model' during the IEEE International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS-2022). The Conference was co-sponsored by IEEE Kerala Section and organised by the Department of Computer Science and Engineering, SCMS School of Engineering and Technology, Karukutty, Kerala from 23rd to 25th June, 2022.

Mr Johan T Deepak (S3, CSE Dept) secured Bronze in Under 22 (Junior) and Under 55 (Senior) 10 meter Air Pistol shooting competition in the State Shooting Championship held at Palakkad Shooting Club during 9-12 September 2022.

With great sense of pride and privilege, we share a happy news that, after the publication of results of revaluations of answer scripts, Abhijith Sheheer (2018 – 22 Batch, CSE Dept) has scored a "perfect 10" SGPA (Semester Grade Point Average) in S8 B Tech examinations by scoring "O" (Outstanding) grade in all subjects in the end semester examinations.

CLUBS AND PROFESSIONAL SOCIETY ACTIVITIES

ASSOCIATION DAY

The CSE Dept Association Day, held on 07 December 2022, officially launched the year's activities with a ceremonial lamp lighting, student achievement awards, and a technical session on LinkedIn, followed by a vibrant cultural program at the Pranavam Auditorium.



GOOGLE DEVELOPER STUDENT CLUB

The Google Developer Student Club (GDSC) VAST organized a successful three-day hybrid hands-on web development workshop from December 2–4, 2022, where 36 students from various B.Tech batches learned HTML, CSS, and practical site-building under the guidance of student leads Abel John and Aadithye N, supported by CSE faculty and technical staff.



On November 26, 2022, GDSC VAST launched the "30 Days of Cloud Programming" campaign with a virtual kickstart session led by student facilitator Jestu K J, providing 65 enrolled students with foundational exposure to Google Cloud technologies, console operations, and certification pathways.



Gayathri Satheeshkumar (S6, CSE Dept) has been appointed by the Google Developers Team as the fourth GDSC Lead at Vidya Academy for the 2022-2023 academic year, joining a global community of student leaders dedicated to peer-to-peer technical growth and community-focused problem solving following previous leads Ciril P Thomas, Hemanth Janesh, and Anand Krishna Sunil.



TECHNICAL AND CULTURAL ACTIVITIES

CHRISTMAS

The Department of Computer Science and Engineering added to the vibrant campus-wide Christmas festivities on December 23, 2022, by organizing its own "Holidaze" celebration featuring a spirit-filled cultural extravaganza and a unique "Christmas Photography Contest" that captured lasting memories for the students.

ONAM

On 03 September 2022, the Vidya campus transformed into a vibrant hub of cultural splendor as the Computer Science and Engineering Department led the charge with their signature Onam celebration, 'Olam'. Students in elegant traditional attire filled the department with festive energy, crafting intricate Pookalams and celebrating to the rhythmic resonance of traditional drum beats. The 'Olam' festivities were a true highlight of the day, featuring a grand communal Sadya, graceful Kaikottikali performances, and a series of spirited departmental competitions that showcased both the cultural pride and the strong sense of camaraderie within the CSE community.



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