



TECH PULSE

VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2022-2023

ISSUE :4 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.

Programs 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 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

EXTERNAL INTERACTION

The CSE Dept conducted a career guidance session christened 'Pave Your Career Path' on 27 May 2023. The session was handled by Mr Pramod Karunalayam (Head of platform operations in East Asia and Japan at Philip Morris International). It was an online session started at 10:30 am with a prayer song by Dency P D (S6, CSE Dept). The welcome address was given by Dr. Ramani Bai V (HoD, CSE Dept).

On 18 May 2023, the CSE Department organized an inspiring motivational talk titled 'Shape Your Destiny' at Pranavam Auditorium, where renowned counselor and ATMA Foundation founder-director Mr. Suresh C. K. engaged S8 students with practical strategies for goal-setting, resilience, and cultivating a positive mindset to overcome professional challenges and achieve personal fulfillment.

On 05 January 2023, the CSE Department organized an inspiring technical talk titled "Remaining Relevant for a Successful Career" for first-year B.Tech students, featuring Mr. Pramod Kumar Karunalayam (Head of Platform Operations in East Asia and Japan at Philip Morris International) as the resource person, who emphasized the importance of self-reflection, the distinction between a job and a lifelong career, and the necessity of "learning how to learn" to stay dynamic and marketable in the evolving IT industry.

A motivational talk titled "Shape Your Destiny" was conducted for S8 CSE students on 18 May 2023 at Pranavam Auditorium by Mr. Suresh C K, a renowned counselor, mentor, and Founder-Director of ATMA Foundation, with the aim of inspiring creativity and reducing fear about the future. The program began with a prayer, followed by a welcome speech by Dr. Ramani Bai V (HoD, CSE), who expressed gratitude to the speaker. Mr. Suresh delivered an engaging session on goal setting, overcoming challenges, developing resilience, and maintaining a positive mindset, while also emphasizing personal fulfillment alongside academic success. An interactive activity encouraged students to share their achievements, boosting confidence and motivation. The event concluded with a vote of thanks by Dr. Ramani Bai V, and overall, the session proved to be highly inspiring and insightful for the students.

A Career Opportunities session for CSE students was held on 05 May 2023 at Pranavam Auditorium from 10:00 am to 12:30 pm. The session was conducted by Mr. Necer Ashraf, Knowledge Officer at ICT Academy of Kerala, who explained various career domains and opportunities in the field. He also interacted with students by clearing their doubts and providing guidance, making the session useful for placement preparation.

WORKSHOPS CONDUCTED

On 24 January 2023, the CSE Department hosted a one-day workshop titled “Introduction to Data Science for Engineers using Python” for over 40 diploma students from various polytechnics, featuring hands-on training led by Dr. Ramani Bai V and Ms. Thulasi Rajan K, along with an overview of Infosys certification to equip participants with essential data science skills for a competitive career.



On 05 April 2023, under the auspices of VIBE, the CSE Department organized a workshop on “Introduction to Machine Learning” for higher secondary students of Amritha Vidyalayam, featuring Mr. Sivadasan E. T. (Asso. Prof/System Manager, CSE Dept) as the resource person who provided foundational insights into machine learning concepts and industry applications.



FACULTY DEVELOPMENTS AND ACHIEVEMENTS

FDP ATTENDED

On 23–24 February 2023, the CSE Department, in association with the Vidya Center for AI and Research (VCAIR), organized a two-day workshop on “Deep Learning with Linear Algebra and Optimization,” featuring Distinguished Research Professor Dr. Biswa Nath Datta from Northern Illinois University, who provided participants with deep insights into neural networks, regression algorithms, and the critical role of numerical algebra in machine learning optimization.

Ms Mithu Varghese (Asst Prof, CSE Dept) completed 7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE) in Computer Science Discipline organised by Marian College, Kuttikkanam (Autonomous) in association with Kerala State Higher Education Council (KSHEC) during 08-15 December 2022.

STUDENT ACHIEVEMENTS

TOPPERS

S5 9.0+SGPA



Ragitha



Sivakami



Febin Rajan

S4 9.0+SGPA



Neha Bajj



Neeraja K



Sivakami P



Sreyas Unni



Febin Rajan



Athulya T Rajesh



Suryajith
Sudheeran

S6 9.0+SGPA



Gayathri
Satheshkumar



Abel John Reji



Vyshnav M



Rajaram
Reghuram



Pooja M



Swetha T P



Pranav Sudhir

S2 9.0+SGPA



R Akash



Sreelakshmi V B



Jidhin N S



Saurave V S



Divya Devaraj



Joel Joseph



Athulkrishnan H



Lakshmi
Krishnan



Aswin E V



Ardra Nair A

INTERSHIPS

SOTI



Joshna Joshy



Swathi Krishna



Abdul Khader
Abdul Kareem



Emmanuel Nevil
Babu



Sriya
Baburaj



Rajaram
Reghuram



Gayathri Jyothish

ANORA

PLACEMENTS







**Ciya Rose
Joshy**



Pooja M



**Yadhukrishna
P R**



**Adhvaidhvas P
Bhavyalakshmy
K P**



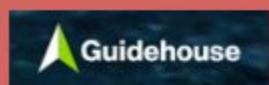
**Gayathri
Satheesh Kumar**



Aadithye N



Visal K S




S Divya



Vrinda V



**Gayathri Satheesh
Kumar**



**Rajaram
Reghuram**



Sriya Baburaj



**Harikrishnan
KM**



Nived Krishna



Sruthi PS




Aaryaka P Nath



**Joshna
Joshy**



**Lakshmi
Devi A B**



Adithya M P



Safna R M



**Mohammed
Siyad M A**



Nived Krishna



Leya Mary Sunil



Guruprasad S



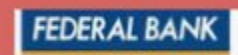
Nandakishor T



**Abel John
Regi**



Vrinda V




Hannath A A

RESEARCH CONTRIBUTIONS

With an aim to communicate the latest information in the field and to receive feedback on the work, the students from CSE Dept presented a paper titled "Speech to Braille Conversion using Android" at Virtual International Conference on Computer and Communication Technology" (VICCCT'23) on 25 January 2023. The paper was guided by Dr Beena M V (Asso Prof, CSE Dept)

The paper titled "Sign Companion – Real Time Speech to Indian Sign Language Conversion" was presented at Virtual International Conference on Computer and Communication Technology" (VICCCT'23) on 25 January 2023. The paper was guided by Dr Beena M V (Asso Prof, CSE Dept).

Lijesh T U (S8, CSE Dept) completed a 5 day internship in the field of Android App Development during 28 September 2022 to 02 October 2022 provided by Techmaghi along with Kerala Startup Mission, Kalamassery.

CLUBS AND PROFESSIONAL SOCIETY ACTIVITIES

GOOGLE DEVELOPER STUDENTS CLUB

On April 16, 2023, GDSC VAST hosted an insightful Introduction to Machine Learning session led by Ashish Abraham, an ML/AR Developer at Snap AR, providing students with a comprehensive roadmap of tools and practical demonstrations to kickstart their journey in the field.



On April 12, 2023, GDSC VAST organized "Leap into Flutter," an online session led by Technical Lead Aadithye N (S8, CSE) for around 45 students, covering essential mobile and web development using the Dart language and Flutter's UI toolkit. Supported by Faculty Advisor Ms. Mahalakshmy A (Asst. Prof, CSE) and student leads Gayathri Satheeshkumar and Adithyan V S, the session provided hands-on guidance on workspace setup and boilerplate app creation to aid students in their future academic project.



MULEARN

MuLearn VAST conducted a 30-day Keyboard Mastery Typing Challenge from 13 April to 12 May 2023, where participants improved their typing speed and accuracy to earn Karma points on the MuLearn Discord server. Out of 45 participants, 23 students completed the full challenge, with eight achieving an uninterrupted 30-day streak: Adithia K Dinesh, Anjana Sivadas, Anurag Chandra, Sarang C Santhosh, Sivakami Prasanth, Joel Joseph, Sreyas Unni, and Vishnukant P K. The event received positive feedback for its practical benefits in competitive programming and time-bound technical sessions.



MERIT DAY

On April 26, 2023, the CSE Department at VAST celebrated its Merit Day and Valedictory Function, an event held at the College Auditorium to honor the academic and extracurricular excellence of the 2022-23 batch. Presided over by Principal Dr. Saji C. B. and HOD Dr. Ramani Bai V, the ceremony featured the felicitation of university toppers, placed students, and those with notable achievements in various fields. Key highlights included the presentation of the "Gem of CSE 2023" award to Mohammed Siyad and the "Contributor Award" to Gayathri Satheeshkumar, alongside a technical talk by Aadithye N and an industry briefing by Placement Head Mr. Paul Chacko.

ADVIKA 2023

The Department of Computer Science and Engineering (CSE) emerged as the overall champions of Vidya's Arts Festival, 'ADVIKA 2023', securing the top position with an impressive 334 points. At the concluding ceremony held during the Annual Day on April 28, 2023, the CSE team received the winners' trophy from the Principal, followed by the Electronics and Communication Engineering (ECE) department as first runner-up with 243 points and Civil Engineering (CE) as second runner-up with 240 points. The event, coordinated by Student Senate conveners Ms. Ida David and Ms. Anooja V. S., successfully showcased the high artistic caliber and competitive spirit of the students.



EDITORIAL BOARD

ADVISOR



DR RAMANI BAI V
HOD,CSE

STAFF EDITOR



REMYA P S
ASST. PROF CSE

DESIGNER



AADITHYE N
S8 CSE

DESIGNER



ABEL JOHN REJI
S8 CSE

DESIGNER



EMMANUEL NEVIL BABU
S8 CSE

EDITOR



HANNATH A A
S8 CSE

EDITOR



LAKSHMI DEVI A B
S8 CSE



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

