



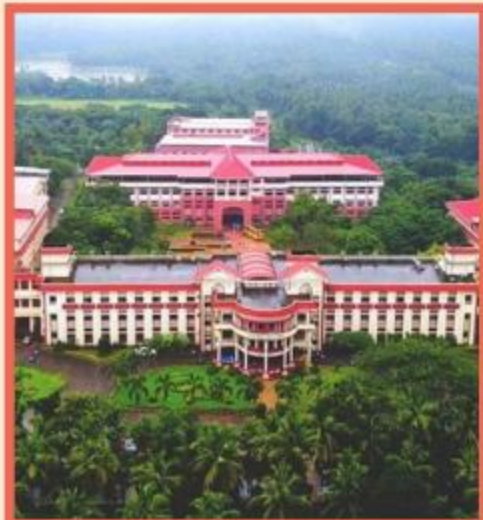
TECH PULSE

VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2024-2025

ISSUE : 8 VOLUME : 4



OUR VIDYA OUR PRIDE

Vision

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

Mission

M1: Seek to foster in every student a profound and practical understanding of knowledge, encouraging critical inquiry and intellectual curiosity.

M2: Strive to ensure every student develops holistically, cultivating the skills, ethical character, and resilience necessary to thrive in diverse and challenging future environments.

M3: Scale the commitment to service by inspiring students to apply their knowledge and skills to actively address community needs, promoting ethical leadership and social responsibility.

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 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 enhance their knowledge and skills to achieve their long term goals.

ACADEMIC ACTIVITIES

ALUMNI INTERACTION

CSE Dept hosted an insightful alumni talk featuring **Ms Greeshma C** (2009 – 2013 CSE Dept) who is currently working as Software Development Engineer at Trellix, India and expert in Windows security product development on 06 January 2024. The event, was attended by enthusiastic second-year students eager to learn from the experiences of a seasoned professional.

The inspiring alumni talk organized by CSE Dept, VAST, “Success Stories... A Personal Journey with Lessons Learned” was held virtually on 10 March 2025 via Google Meet. The event featured accomplished alumni **Ms Sharma Radhika Ramesh** (UI/UX Designer, Xeoscript Technologies, 2018-2022 Batch, CSE Dept) who shared their personal journeys, highlighting the challenges they faced, the strategies they used to overcome them, and the key lessons they learned along the way.

Computer Science and Engineering Department organized an insightful Industry Interaction talk on “Generative AI in Chat and Voice Assistants: Bridging Technology and Business” on 25 January 2025. The session was conducted online via Google Meet at 7 PM and featured **Ms. Swedha Balasubramanian**, (Principal Consultant, PwC India, Chennai, 2011-2015, B Tech CSE Dept) as the resource person.

EXTERNAL INTERACTION

An Industry Interaction session was held on 10 January 2025. The session, led by **Mr Anoop Menon (Regional Director, LinkedIn Academics)** involved an engaging interaction with the final-year students of the CSE department. Mr Anoop Menon emphasized the importance of LinkedIn for professionals and explained how it stands out from other social media platforms by focusing on building professional connections and opportunities.

WORKSHOPS CONDUCTED

Dept of CSE takes various initiatives to enhance the skills of diploma students in document preparation using the LaTeX system by conducting workshop. A session christened Scientific prose using LaTeX was exclusively organized by CSE Dept for diploma students in association with CSI on 17 January 2025. The session commenced with a welcoming note by Dr Sunitha C (HoD, CSE Dept). Ms Anitha L (Asst Prof, CSE Dept and CSI Member) then provided an overview of the course. The session concluded with a vote of thanks delivered by Ms Aiswarya K P (Trade Instructor, CSE Dept).



FACULTY DEVELOPMENTS AND ACHIEVEMENTS

FDP ATTENDED

ATAL FDP

Ms Rebitha K R (Asst. Prof, CSE Dept) successfully participated in and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Blockchain Governance Structures and Trust: From Theory to Practice hosted by Birla Institute of Technology, Mesra, Ranchi (Off Campus-Jaipur) during 23-28 December 2024.

A group of four dedicated faculty members from the Computer Science and Engineering department successfully completed a six-day online Faculty Development Program (FDP) on “Advanced Techniques in AI and Machine Learning” organized by the College of Engineering Cherthala, Kerala during 06-11 January 2025 .

The FDP provided an invaluable platform for faculty members **Ms Remya K R (Asst Prof, CSE Dept)**, **Ms Neethu C S (Asst Prof, CSE Dept)**, **Ms Prajitha M V (Asst Prof, CSE Dept)** and **Ms Anitha L (Asst Prof, CSE Dept)** to delve deep into the intricacies of intelligent systems. The program covered a wide range of topics, including the latest advancements in artificial intelligence, machine learning, data analytics and their applications across various domains.

NPTEL

The Department of Computer Science and Engineering proudly celebrates the academic achievements of **Ms. Remya K R**, **Ms. Soumya C J**, and **Ms. Leeshma O V** in their respective NPTEL courses. Their successful completion of advanced programs in Data Analytics, Database Systems, and Real-Time Operating Systems exemplifies a commendable dedication to continuous professional development and excellence.

The Department of Computer Science and Engineering proudly celebrates the academic achievements of faculty members **Ms. Remya K R**, **Ms. Soumya C J**, and **Ms. Leeshma O V** for their successful completion of specialized NPTEL courses. Additionally, we extend our congratulations to **Ms. Rebitha K R**, **Ms. Mithu Varghese**, and **Ms. Rejusha T R** for earning prestigious Elite Certificates in their respective technical domains, showcasing a collective commitment to academic excellence.

The Dept of CSE is delighted to share that **Ms Mrithu A S (Asst Prof, CSE Dept)** successfully completed the NPTEL (National Programme on Technology Enhanced Learning) course on ‘Compiler Design’. In recognition of her outstanding performance, **Ms. Mrithu** has been awarded the Elite status and has been honored as a Course Topper.

The Dept of CSE is proud to share that **Ms. Rebitha K R (Asst Prof, CSE Dept)** successfully completed the NPTEL (National Programme on Technology Enhanced Learning) Faculty Development Programme (FDP) and online certification course on “Fundamentals of Object-Oriented Programming.” She has also earned the prestigious Elite Silver status and was recognized as a Course Topper.

Dr. Sajay K R (Asso Prof, CSE Dept) successfully completed the NPTEL course titled “Software Testing” offered by IIT Kharagpur” National Programme on Technology Enhanced Learning (NPTEL)

The Department of CSE is proud to share that **Ms Silpa K S (Asst Prof, CSE Dept)** successfully completed the NPTEL course and FDP on Cloud Computing and Distributed Systems with a consolidated score of 78% and awarded Elite + Silver Certificate.

"Proud Moments: NPTEL Certification Success"



Ms Rebitha K R



Ms Mithu Varghese



Ms Rejusha T R



Ms Remya K R



Ms Leeshma O V



Ms Soumya C J



Ms Mrithu A S



Dr Sajay K R



Ms Silpa K S

STUDENT ACHIEVEMENTS

TOPPERS

S5 9.0+SGPA



Nimisha Boban



Teresa Benny



Aljin Joby



Sidhinchandran C S



Nandhana Sajeesh



Lakshmi M S



Manasa



Fathima Nasrin T N

S3 9.0+SGPA



Anasooya A G



Aiswarya Lakshmi
C J



Suha I A



Anuja Raj



Anagha V S



Nijoy P Jose



Sath Sree Hari



Alok M K



Seethalakshmi K B



Anagha Raj

S1 9.0+SGPA



Bhoomika K B



Gokul N. R



Roshni K Kamath



Ardhra K Manoj



Aysha Shafeek M M



Devika S Nair



Sreegovind P



Saneesh Kumar S



Malavika P S



Anshya M P



Adhithya K S



Vandhana K S



Emmanuel Shijo
Antony



Kamal Nayan M.S

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Aparna Menon



Nayana P S



Akhila S Menon



Aparna Menon



Nida Shirin

Aboobacker Ansari

FACE Prep



A Ardra Nair



Aiswarya Chandran



Aparna Menon



Athira Mohanan



Gagan Udyuth



Jeeva CS

Seven B.Tech students from the 2021-25 CSE batch—Navin Krishna, Swetha VS, Namitha P Menon, A Ardra Nair, Aparna Menon, Aiswarya J, and Jeeva Vinod—have been successfully placed as Project Co-ordinators in the Artificial Intelligence division of Vedhik Group.

50 final-year students from the CSE department have secured placements at Sutherland, a global digital transformation company and industry leader in AI-based products, analytics-driven solutions, and robotic automation.

RESEARCH CONTRIBUTIONS

A Ardra Nair (S8,CSE Dept),Aiswarya Chandran (S8,CSE Dept), Aparna Menon (S8,CSE Dept) and Gagan Udyuth(S8,CSE Dept), along with the faculty **Ms Remya K R (Asst Prof, CSE Dept)** presented a paper titled “Virtual Recruitment System” during the National forth International Conference on Advanced Information Science and Computing Systems (ICAISCS) on 24 January 2025.

The paper titled “Human Stress Detection Based on Sleeping Habits Using Machine Learning Algorithms (Track 9)” presents a machine learning-based approach to detect stress levels from sleep patterns and physiological data, developed as a B.Tech project by **Hanna Gafoor, Sandra Rose Joseph, Udaya Krishna E.M., and Frijo Antony C.F.** under the guidance of **Ms. Anitha L, Assistant Professor, Department of CSE.**

A team of S8 Computer Science and Engineering students—**Adersh Mohan Puthiyedath, Alind Wilson, Ansil T.A., and Devanarayanan Anil**—under the mentorship of **Ms. Anitha L, Assistant Professor**, presented their B.Tech research paper titled “AI-Based Epileptic Seizure Prediction System (Track 9)” at the 3rd International Conference on Intelligent Techniques in Computer and Engineering Science (ITCES’25) held on March 10–11, 2025, at the College of Engineering Perumon, Kollam, where it received accolades for its innovative deep learning-based approach to early seizure prediction.

The Dept of CSE is proud to announce the successful presentation of a research paper titled “Predicting Smartphone Dependency – A Machine Learning Perspective” at the IEEE CCET Students’ Project Competition (SPC-2025). The event was held on 27 March 2025, and was organized by the Department of Electrical and Electronics Engineering, CCET, Alappuzha, in association with IEEE Kochi Subsection and IEEE PES Kerala Chapter. **Manasa (S6,CSE Dept), Rithu Mary Varghese (S6,CSE Dept), Mithra Jayapal (S6,CSE Dept) and Siya Nesrin V A (S6,CSE Dept)** under the guidance of **Ms. Remya K R (Asst Prof, CSE Dept)** successfully presented the research paper.

It is with great pride and honor that the CSE Dept announces the successful presentation of a research paper titled “Dance Pose Detection and Correction Using Human Pose Analysis, Computer Vision and MediaPipe: A Review” by **Lakshmi C V(S8,CSE Dept), Shreya Dilip (S8,CSE Dept),Sradha Siju (S8,CSE Dept) and Susan P Babu (S8,CSE Dept)** under the guidance of **Dr. Sunitha C (Principal)** in the National Conference on Recent Advancements in Engineering and Technology (RAET’25) during 21–22 March 2025. The conference was organized by St. Thomas College of Engineering and Technology, Kannur.

Rizwin M Gafoor (S8,CSE Dept),Sanju C S (S8,CSE Dept),Partheev V L (S8,CSE Dept) and Zam Walton P M (S8,CSE Dept) under the mentorship of **Ms. Athullya Bhaskar K R (Asst Prof, CSE Dept)** proudly presented a paper titled “Nutrialize: Smart Recipe Recommendation for a Healthy Diet Based on Nutrient Density and Macronutrient Balance” during the 4th International Conference on Advanced Information Science and Computing Systems (ICAISCS).

NPTEL

The Dept of Computer Science and Engineering proudly announces that Ayana Joy (S4, CSE Dept),Febina K A (S4, CSE Dept),Gayathri K (S4, CSE Dept),Nandhana M J (S4, CSE Dept) and T S Vishnu Narayanan (S4, CSE Dept) have successfully completed the NPTEL course on Database Management Systems.

Ayana Joy has achieved Elite status and has been recognized as a Course Topper.

It is with immense pride that the Dept of CSE announces the successful completion of the NPTEL course “Introduction to Machine Learning” conducted by IIT Madras (under the guidance of Prof. Balaraman Ravindran) by Aswin R Nair (S4 CSE Dept), Bhadra M U (S4 CSE Dept), Darsana M S (S4 CSE Dept), Kavya T R (S4 CSE Dept) and Lakshmi V M (S4 CSE Dept).

Meenakshi M (S5, CSE Dept), Nimisha Boban (S5, CSE Dept), Jyothika Sreevalsan (S5, CSE Dept) successfully cleared the NPTEL Examination of the course ‘Essential Mathematics for Machine Learning’ conducted by IIT Roorkee.

Nived Krishna (S5, CSE Dept) and Vidhu Vishwak (S5, CSE Dept) successfully cleared the NPTEL Examination of the course ‘Essential Mathematics for Machine Learning’ conducted by IIT Roorkee.

T S Vishnu Narayanan (S4,CSE Dept) has successfully completed the Google Generative AI course offered by Google Cloud. This course has provided valuable insights and hands-on experience with generative AI concepts, tools, and applications.

Team KRYPTONITE, comprising S8 CSE students Joel Joseph, Divya Devaraj, Aatlee V Varghese, and Aravind C B, secured the First Prize in 'Innovathon 25,' a hackathon hosted by the CSI-VAST Chapter on 30 January 2025.

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