

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

TECHCHRONICLES



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Execution Successfull

MAR 2026

Volume no. 5
Issue no. 2



AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

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Ahalia Campus, Palakkad | Ph: 04923 226666



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AHALIA SCHOOL OF ENGINEERING AND TECHNOLOGY (ASET)

ABOUT

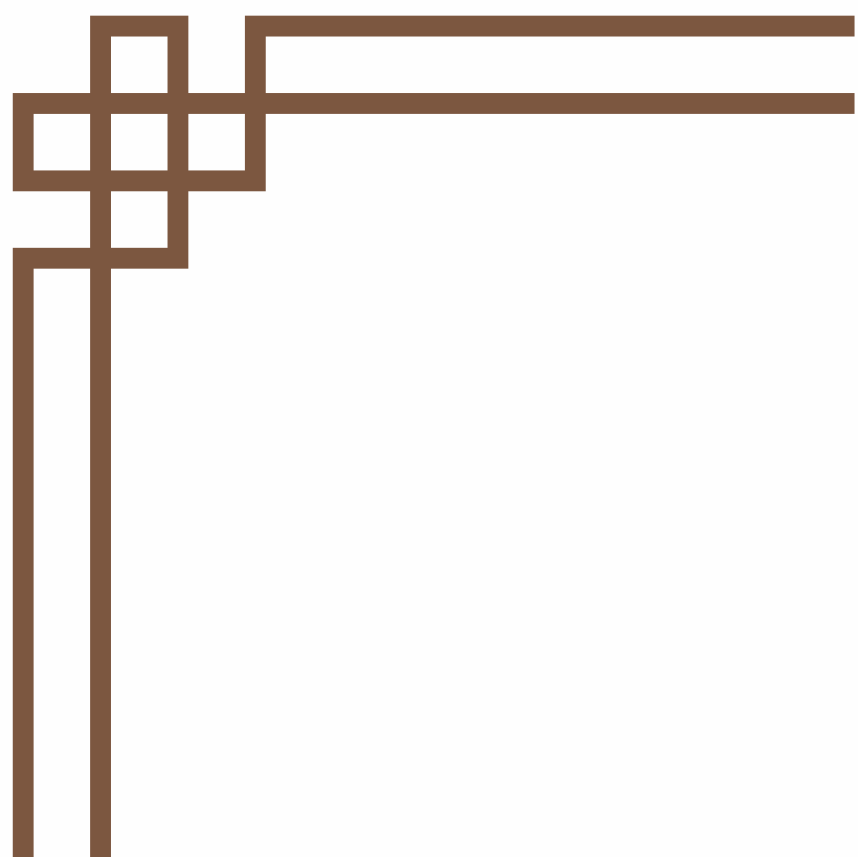
Ahalia School of Engineering & Technology (ASET), Palakkad, an ISO 9001:2015 certified institution, is approved by All India Council for Technical Education (AICTE) and is affiliated to the A. P. J. Abdul Kalam Technological University, Kerala. We provide world-class technical education and training in the fields of Science, Engineering, Technology and Management to meritorious students from diverse socio-economic backgrounds. The college is located in a lush green campus with a beautiful view of the Western Ghats. It provides a peaceful and congenial atmosphere, ideal for students for their overall holistic development. Ahalia School of Engineering and Technology offers five Bachelor of Technology (B.Tech.) courses in Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering and Mechanical Engineering, that is complemented by various co-curricular and extra-curricular activities. ASET is one of the several institutions in Ahalia Campus.

VISION

Grow as a center of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence through decisive learning and contribute to the sustainable development of the society.

MISSION

- To instil technical expertise in order to address current and emerging challenges in the quest for creating sustainable and high-quality livelihoods.**
- To foster a culture of research, innovation, and entrepreneurship through determined learning.**
- To promote an environment that supports the welfare of society through ethical and professional conduct**

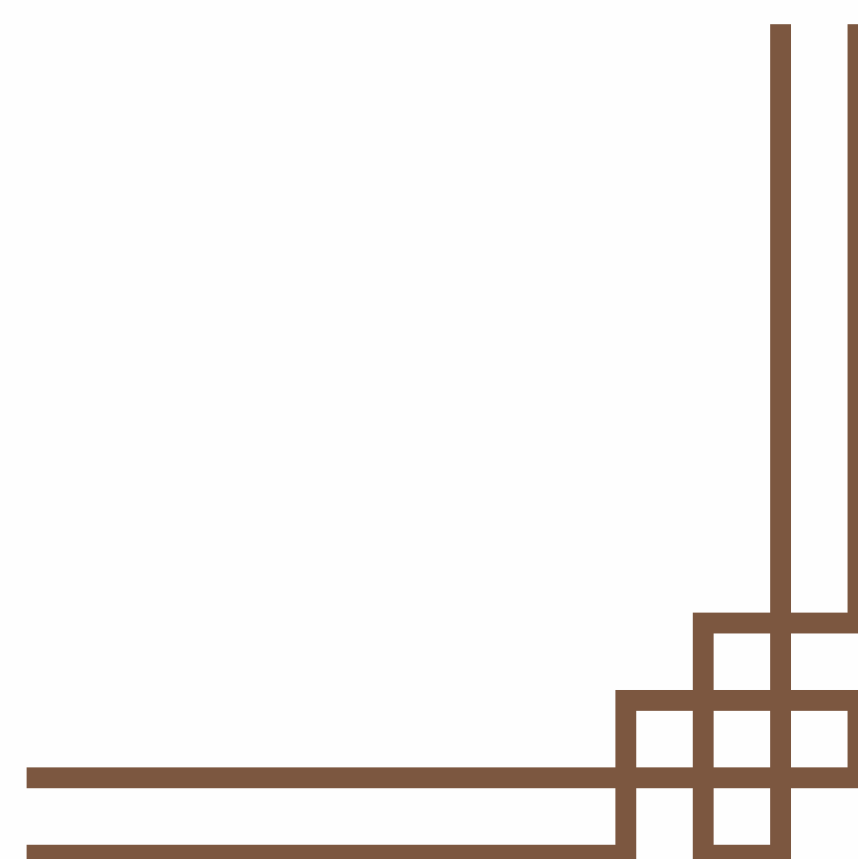


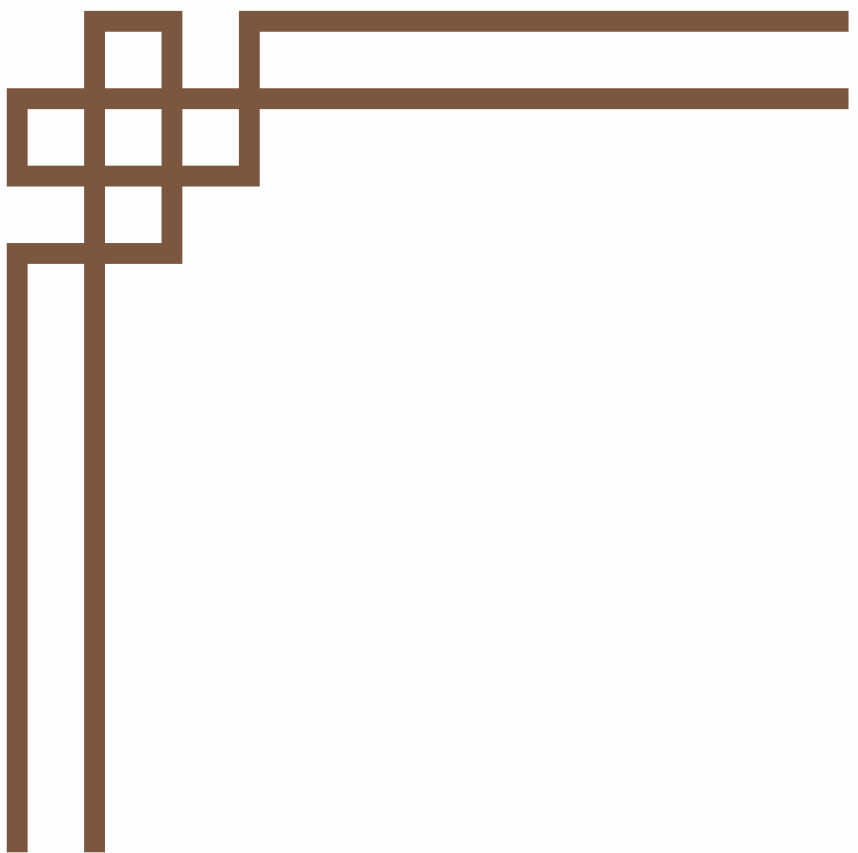
MESSAGE FROM PRINCIPAL

I am very happy that dept of computer science is bringing out this newsletter. It is my pleasure to present to you the new issue of “Techchronicles” covering various events and achievements of the students, faculty members, staff and alumni of CSE dept .We have conducted technical workshops, hands on sessions and expert sessions over these time period , which have brightened the young minds ,so that they are ready to face the challenges ahead.

I am very happy and proud to note that the staff and the students have actively taken part in various academic, sports, cultural and research activities .In the days to come, staff and the students should try their best to learn advancements in AI, quantum computing, edge computing and programming for robotics . My heartiest congratulations to all of them for the wonderful achievements. Wish you a happy reading.

DR. P R SURESH
PRINCIPAL , ASET





MESSAGE FROM HOD

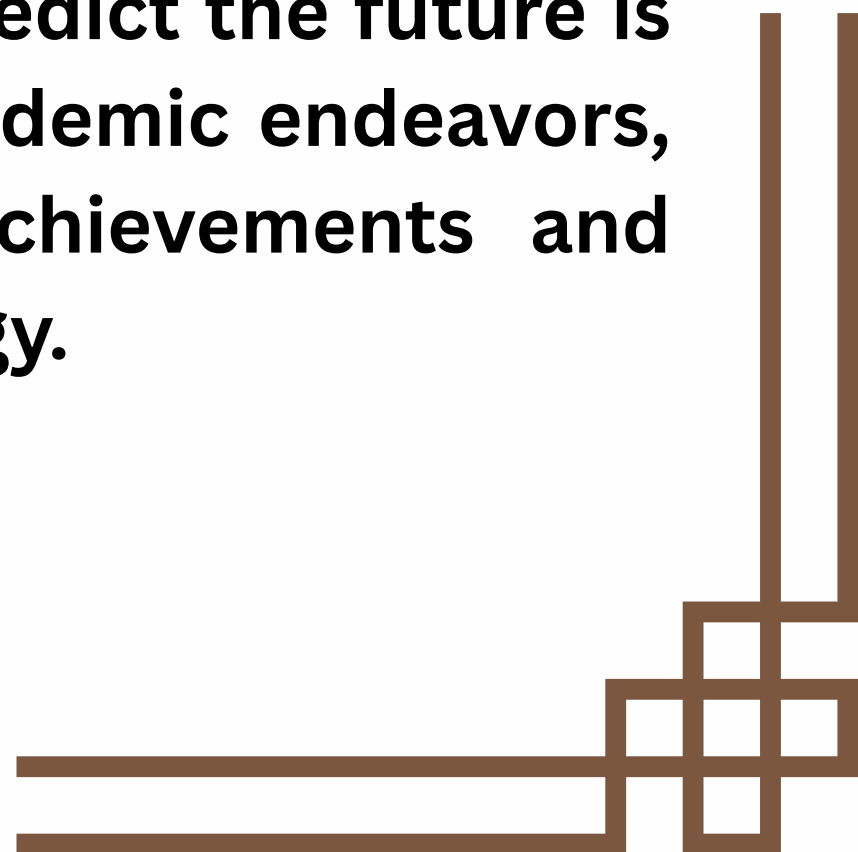


Dear Students,

It gives me immense pleasure to reach out to you all through this edition of our student magazine. I am proud to witness the incredible enthusiasm, innovation, and dedication each one of you brings to the Computer Science and Engineering (CSE) department. Your curiosity, hard work, and continuous drive for excellence are what make our department a thriving hub of learning and growth. As we move forward in this rapidly evolving world, technology continues to shape every aspect of our lives.

We are witnessing transformative advancements in areas such as Artificial Intelligence (AI), Machine Learning (ML), Blockchain, the Internet of Things (IoT), Quantum Computing, and Cybersecurity. These are no longer concepts of the future, but technologies that are actively shaping the present and demanding new skill sets. I encourage each one of you to explore these fields, stay updated, and actively engage with them in your projects and research work. Ahalia School of Engineering and Technology College is committed to providing the best platform for you to build your future. With the introduction of newer technologies and collaborations with industry, we aim to equip you with the tools to innovate and lead in your careers. I urge all students to take advantage of these opportunities and strive to become pioneers in this dynamic and ever-evolving field. Remember, learning is a lifelong journey, and the best way to predict the future is to create it. I wish you all the very best in your academic endeavors, and I look forward to seeing the remarkable achievements and contributions you will bring to the world of technology.

DR. S GUNASEKARAN
HOD, CSE



COMPUTER SCIENCE AND ENGINEERING

ABOUT

The Department of Computer Science and Engineering at the Ahalia School of Engineering and Technology, Palakkad was started in the year 2012 at the time of starting of the engineering college and provides an outstanding academic environment complimented by excellence in teaching. The department offers B.Tech degree. The Department has a comprehensive syllabus on topics covering all the aspects of computer hardware and software with an emphasis on practical learning. The course structure includes courses on latest topics to equip our students with the latest developments in computer science and engineering.

VISION

To develop computer science engineers with knowledge, computing skills and empowering them to excel in their profession through performance- based learning contributing to sustainability, well-being of the society and professional ethics.

MISSION

- To implement effective outcome-based education that fosters the development of competent and skilled graduates, empowering them to promote and adopt sustainable practices.
- To provide students with opportunities to engage in advancements in computer science and engineering through interdisciplinary research, collaborative projects that encourage innovation and entrepreneurship.
- To cultivate a sense of ethics and emphasize awareness of social, legal, and professional conduct adhering to the standards of ethical and professional behaviour.

STUDENTS

Achievements

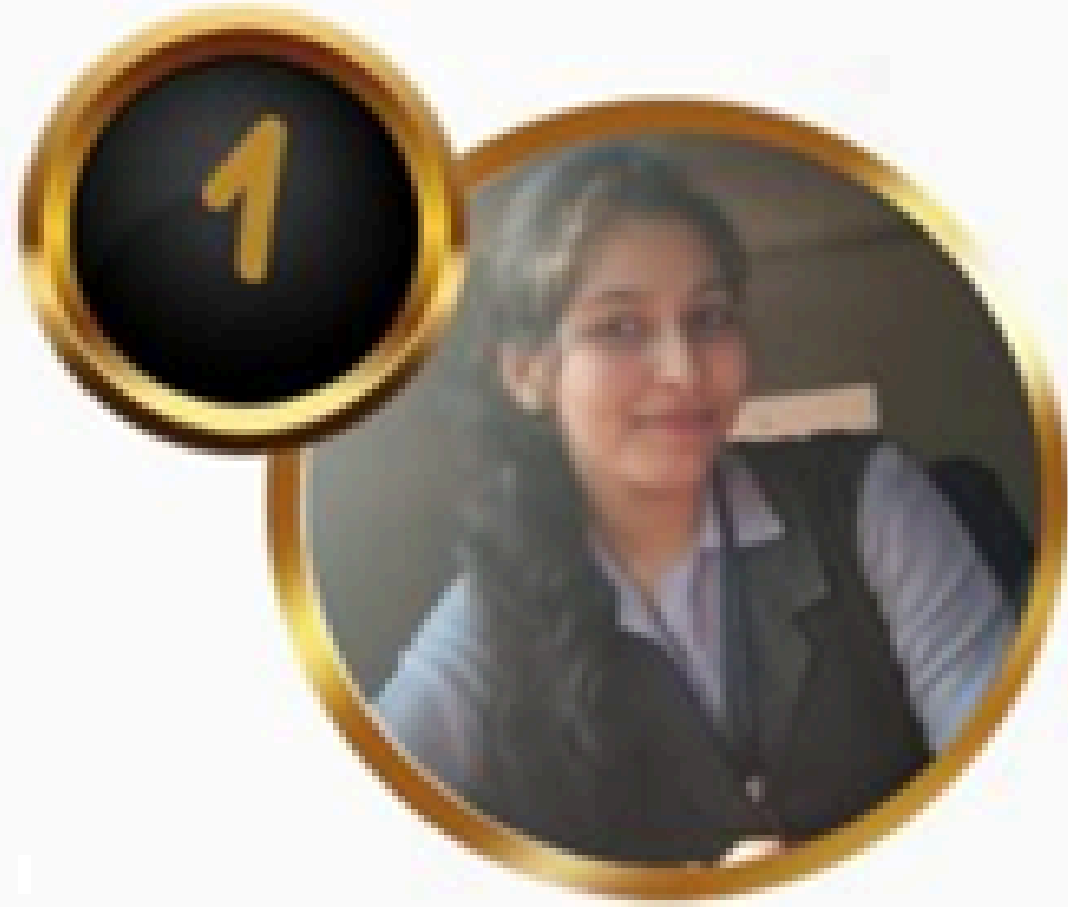
Congratulations

Team Novus Solutions

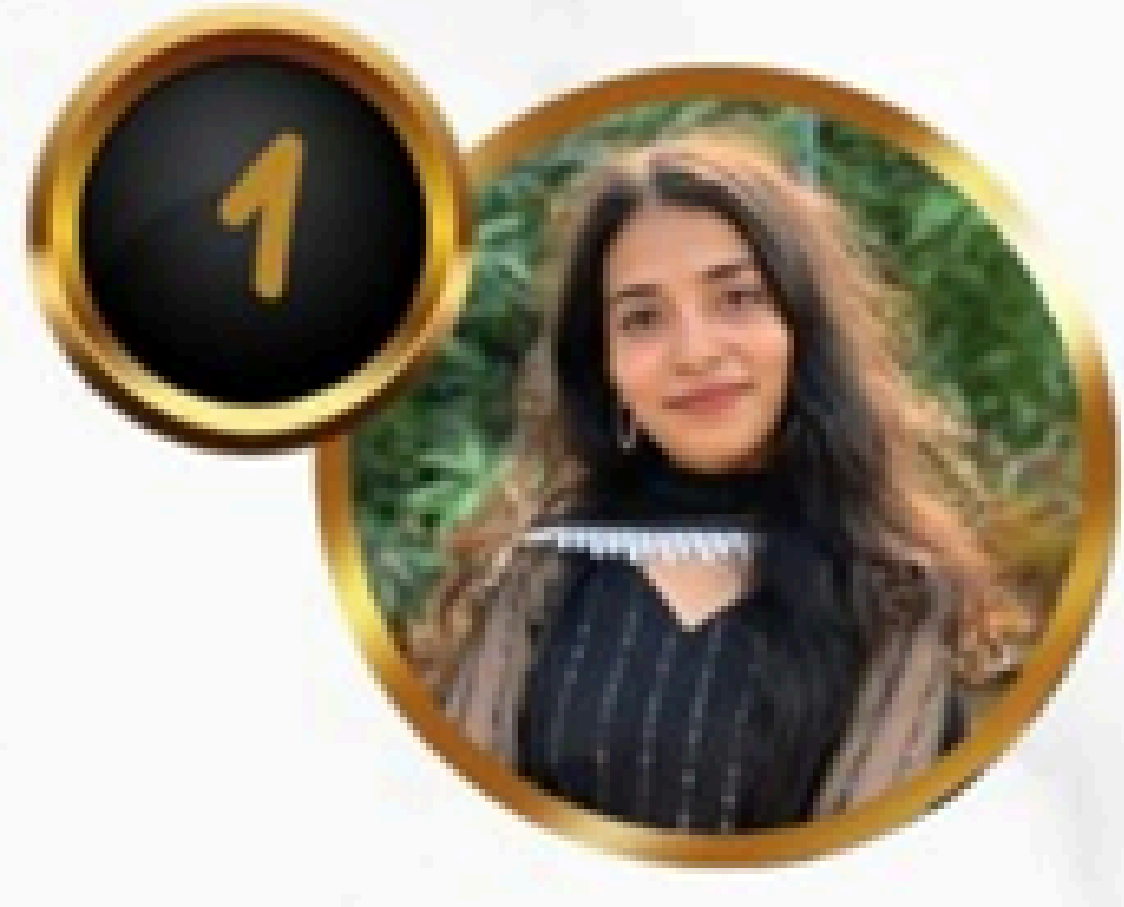
ON WINNING **HACKON 2.0** (NATIONAL LEVEL HACKATHON)
CONDUCTED AT MOHANDAS COLLEGE OF ENGINEERING AND
TECHNOLOGY, TRIVANDRUM



Congratulations
S7 Toppers



H S Sreenidhi
9.6



Nazna N
9.6



Kiran Gautham
9.5



Mohamed kutty Ibrahim
9.5



Ajay M
9.4



Riya Marjum M R
9.4

Congratulations!

We proudly congratulate our students
for securing
Second Prize IIT Jodhpur Hackathon Promoteo'26.



Kiran Gautham
S8 CSE

H S Sreenidhi
S8 CSE

IIT Jodhpur Hackathon – Prometeo '26
February 5, 2026

Kiran Gautham and H S Sreenidhi, (2022 -2026 Batch) CSE students, have brought laurels to the institution by winning Second Prize at the IIT Jodhpur Hackathon – Prometeo '26. We congratulate the students on this remarkable achievement and wish them continued success.

Special Innovation Award at the Neurobot Championship '26

February 5, 2026



Our students Kiran Gautham, H S Sreenidhi, and Aditya Arun Krishnan have made us proud by winning the Special Innovation Award at the Neurobot Championship '26, organized by IIT Palakkad. This achievement reflects their innovation, dedication, and technical excellence.

Congratulations to the team and best wishes for many more milestones ahead!



Abhiram R
S6 CSE-A

CONGRATULATIONS

Won Gold Medal in Mr. Palakkad on 14-02-2026 and
secured Gold Medal in Classic Open – Mr. Kerala
held at Kannur on 15-02-2026 (Junior-Under 65kg)



Congratulations to Mr Abhiram S6 CS for winning gold medals for Body Building, in the competitions held at Palakkad and Kannur



Congratulations to Sreeram R-S4 CSE-B secured silver medal in state karate championship held at Thrissur in 15,16th February 2026.

For getting selected for the

**NATIONAL INTEGRATION &
ADVENTURE CAMP-2025**



Atul Karthik C K
S6-CSE



NATIONAL SERVICE SCHEME
UNIT NO.311

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Mr. Atul Karthik, a student of the Computer Science and Engineering (CSE) Department and volunteer of NSS Unit 311, Ahalia School of Engineering & Technology (ASET), actively participated in the Republic Day Parade event conducted at APJ Abdul Kalam Technological University (APJAKTU) in January 2026. In recognition of his participation, he received a Participation Certificate from the Vice Chancellor, Dr. Ciza Thomas, during the Republic Day celebrations. His involvement showcased discipline, commitment, and patriotic spirit, bringing pride to the CSE Department, NSS Unit 311, and ASET.

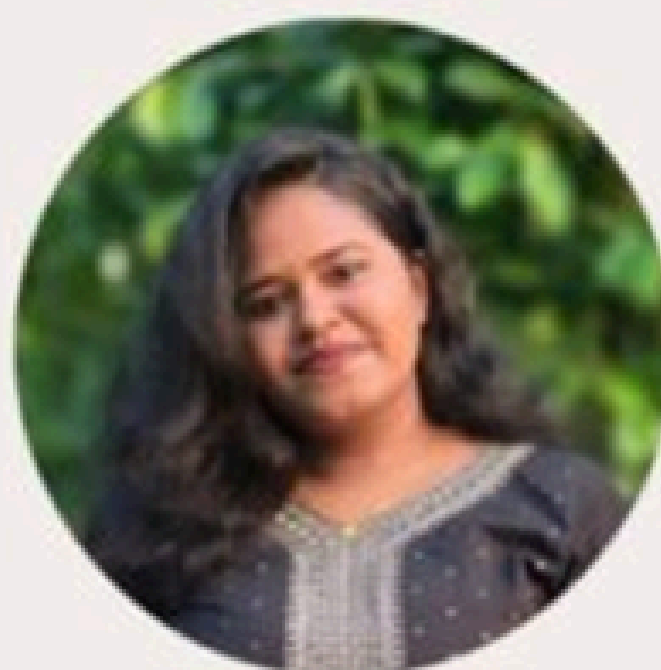


congratulations

TO ALL STUDENTS WHO SUCCESSFULLY COMPLETED
NPTEL-SWAYAM COURSES
2022 - 2026 BATCH



ABHINAV A R



ARCHANA M



DILJIT R



KRUTIKA SURESH



NAVANEETH M



PAVITRA SHINE



SANJAY S



SUHAIL S

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

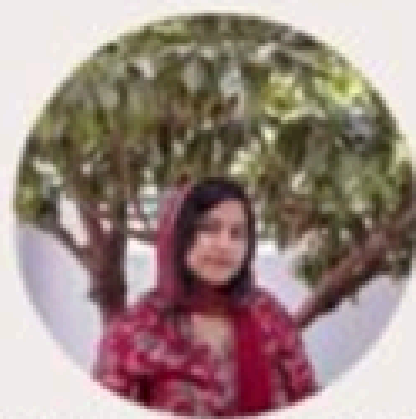
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NPTEL-SWAYAM COURSES

2023- 2027 BATCH - A



ABHIRAM R



AFREEN YUSUF



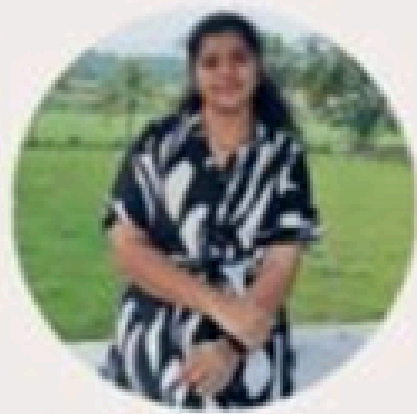
AMRITA CJ



ARYA PM



ASITHA R PRAJITH



D HARITHA



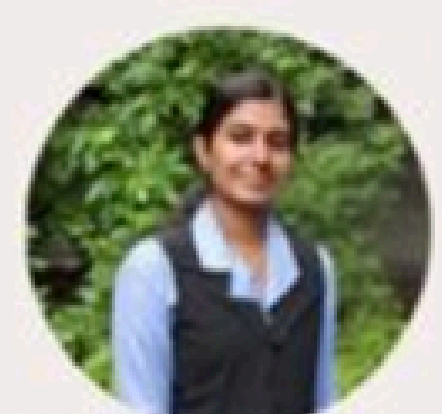
DHANYA P



DHARSHIN R



HASHIM EH



M NISTHULA



MOHAMMED
SANJIDH S



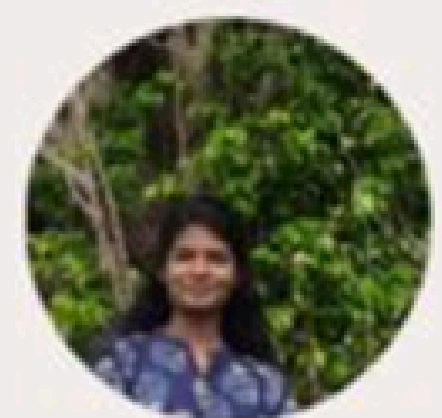
MOHAMMED
SHAHAL



NANDANA TA



NEETHU SURESH



PAVITHRA M



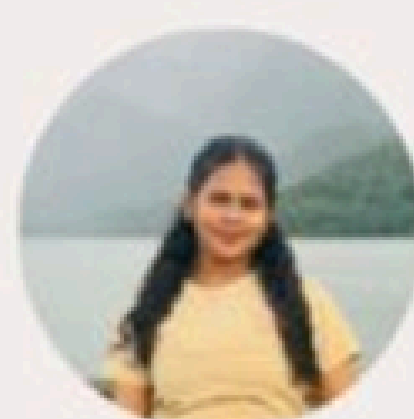
RITHU P



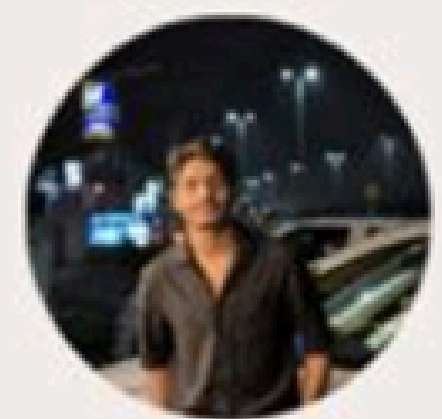
SAYUJ S



SMRITI G IYER



SNEHA G



SREEYESH
SUNILKUMAR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

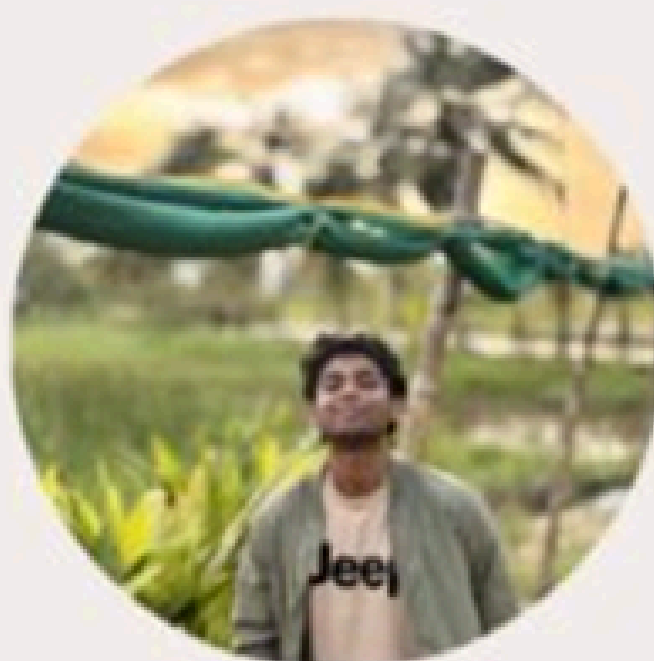
congratulations

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NPTEL-SWAYAM COURSES

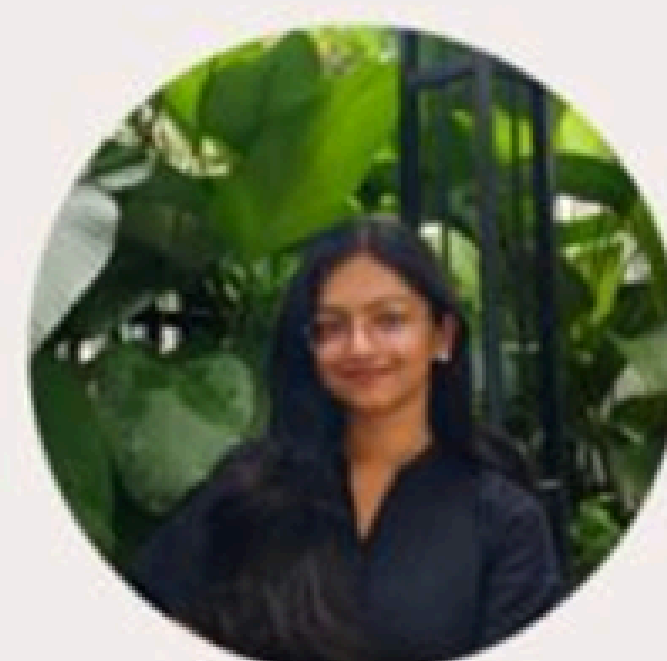
2023- 2027 BATCH - B



ANIRUDH G MENON



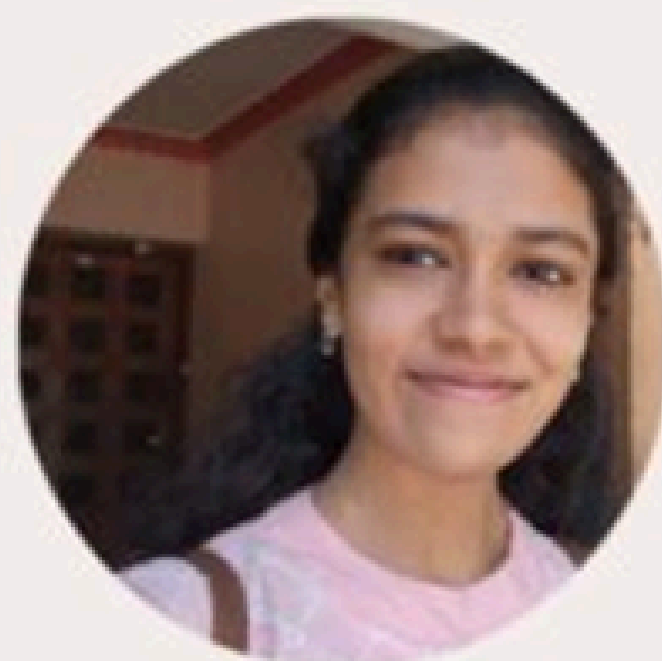
CP VISHNU
SUBRAMANIAN



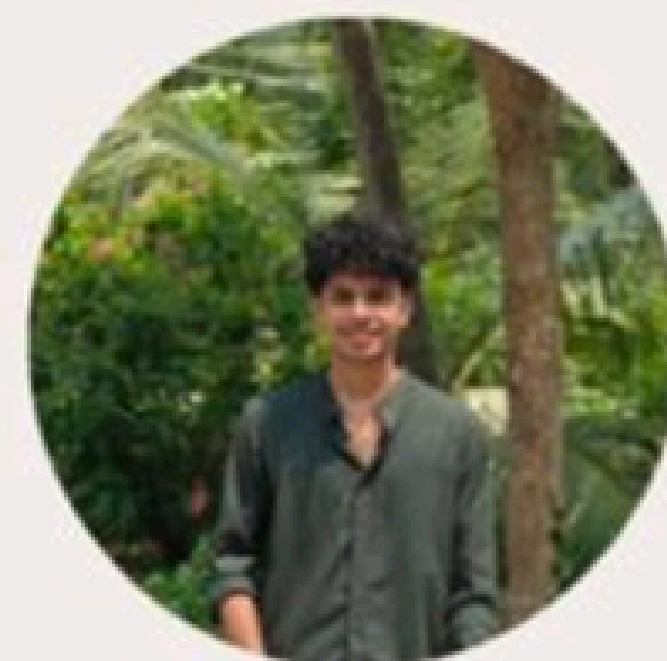
DIYA KRISHNA MD



NANDANA R



NITYA S



NIVEDH V

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NPTEL-SWAYAM COURSES

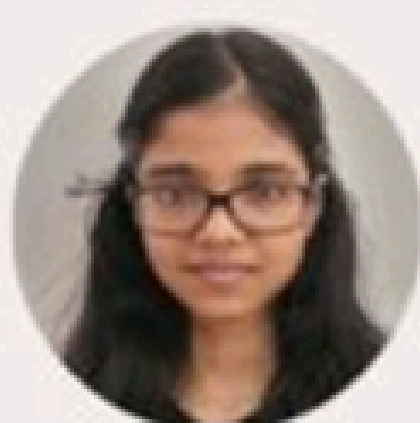
2024- 2028 BATCH - B



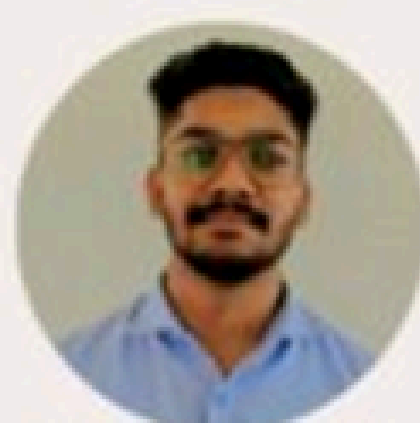
LAKSHMY PK



LIJI D



LINI D



MOHAMMED
RILWAN M



NATH S



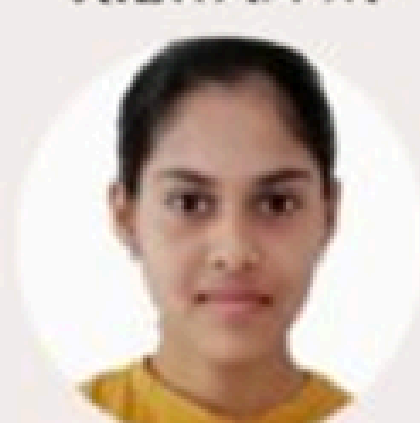
NAVANEETH S



NIDHIN J



NIKHIL M



NIMA LAKSHMI M



SAI NITHEESH



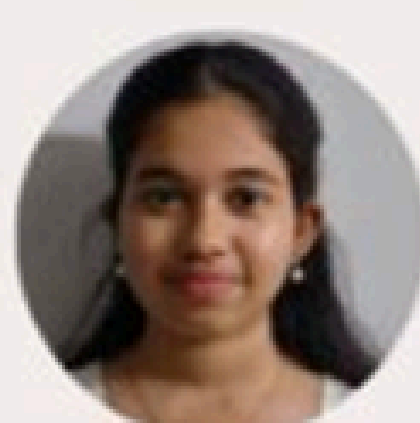
SANJAY R



SHAHIRA BANU



SHIMA



SNEHA S



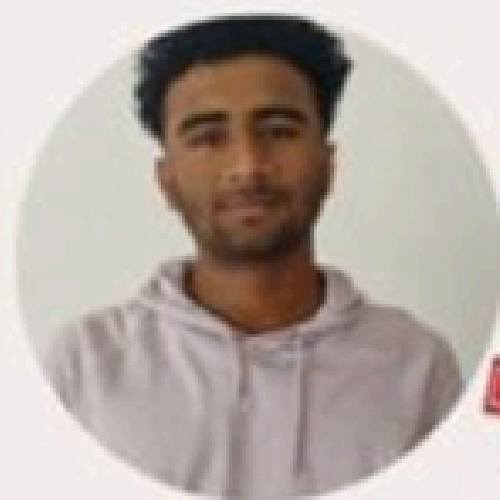
SREEHARI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

congratulations

TO ALL STUDENTS WHO SUCCESSFULLY COMPLETED
NPTEL-SWAYAM COURSES

2024- 2028 BATCH - A



KARANJIT KJ



AADITH AS



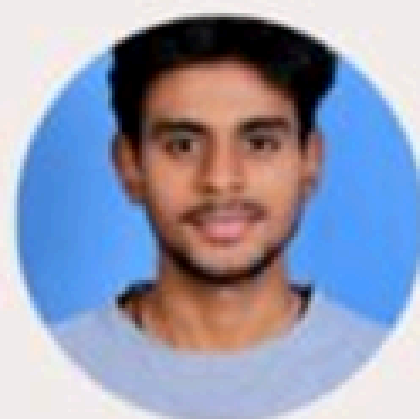
ABHILASH S



ADHISHA



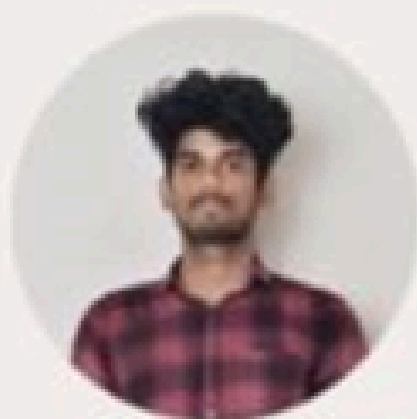
ANAMIKA MANOJ
KITTUNNI



ANEESH R



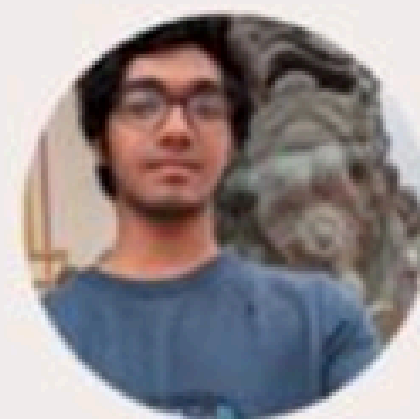
ANIRUDH S



ANURUDH P



ASWIN MP



DRISWAL K DEEPESH

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

congratulations

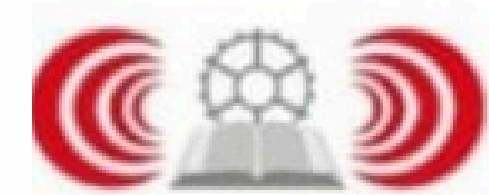
FOR SUCCESSFULLY COMPLETING
NPTEL-SWAYAM COURSE IN
ARTIFICIAL INTELLIGENCE : BASICS AND CONCEPTS
OFFERED BY IISC BANGLORE



DR.RESMI B

ASSOCIATE PROFESSOR
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CSE
PLACEMENTS



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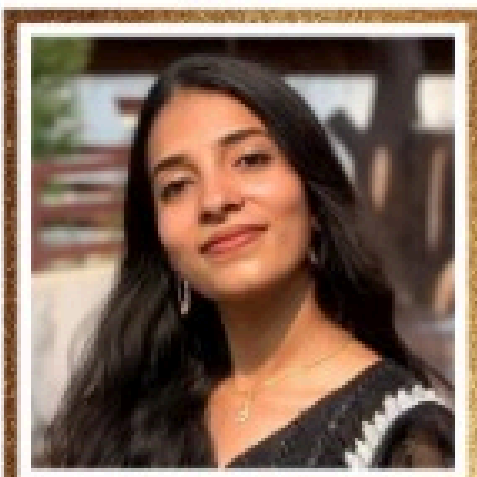


Department Of CSE 2022 -26 Batch

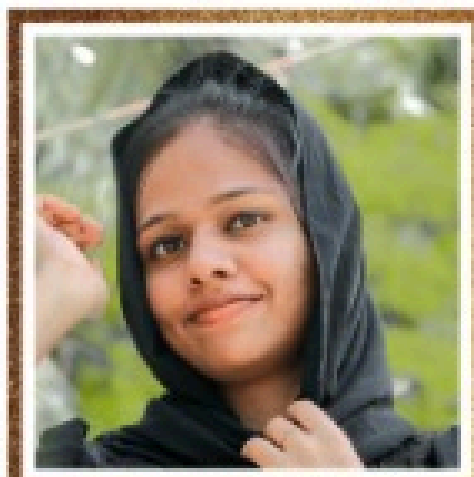
Congratulations for Getting placed at



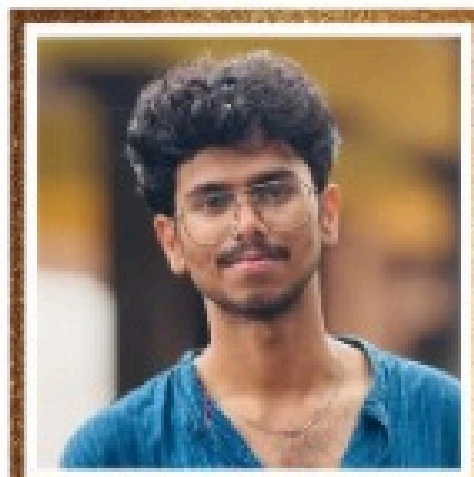
**Riya Marjum
M R**



Nazna N



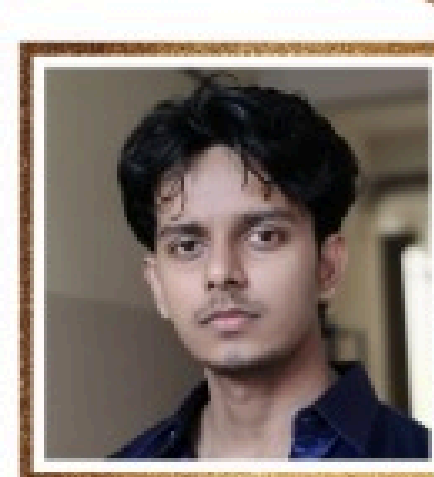
Thoiba M



Ajay M



Kripa S



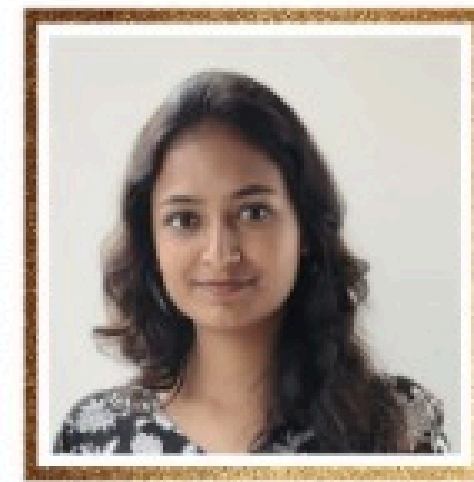
**Gautham
Krishna**



Sanjay S



**Dhananjay
Krishna**



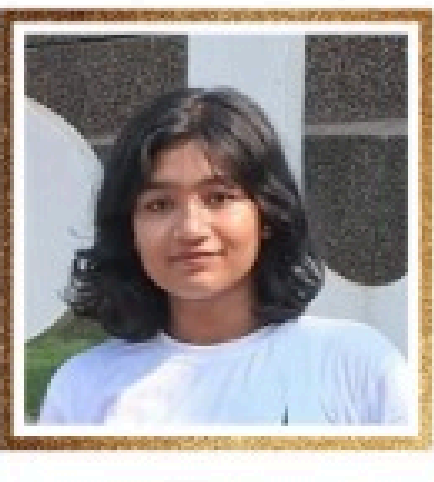
**Gopika
Pushpan**



Minikha S



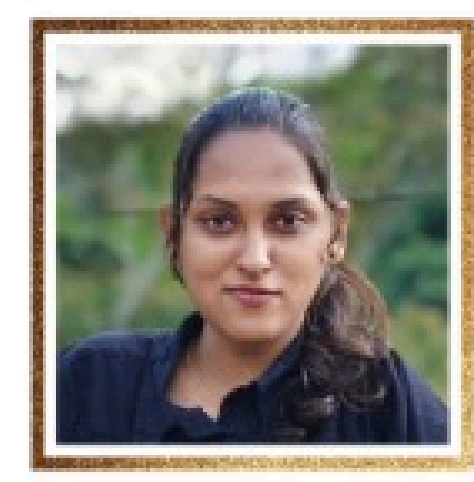
Arjun P



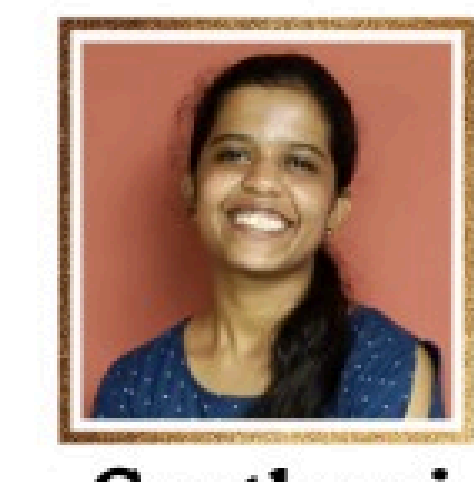
Nithya R



Melwin E



Alzeena A



**Gauthami
Ganesan**



Joel James

Internship at HSBC



The Department of Computer Science and Engineering congratulates Mr. Dhananjay Krishna S S8 CSE on securing internship at HSBC. This milestone marks the beginning of an exciting journey, filled with learning, growth, and success. Wishing him a productive and enriching experience, filled with opportunities, challenges, and achievements. May this internship shape his future and help him reach new heights!



MS. HAPPY A
ASSISTANT PROFESSOR, CSE.

PYTHON: WHAT'S NEW AND WHY IT MATTERS

Python continues to dominate as one of the most versatile and widely used programming languages across industries. From artificial intelligence to web development, its simplicity and power keep it at the forefront of innovation.

LATEST UPDATES IN PYTHON:

The recent release of Python 3.13 brings several exciting improvements:

Faster Execution Speed

Python is becoming significantly faster due to continuous performance optimizations. This makes it more competitive with traditionally faster languages.

Improved Error Messages

Debugging is now easier with clearer and more descriptive error messages—great for both beginners and professionals.

Free-threading (Experimental)

One of the biggest advancements is progress toward removing the Global Interpreter Lock (GIL), allowing true parallel execution in the future.

PYTHON IN EMERGING TECHNOLOGIES:

Python remains the backbone of several cutting-edge domains:

Artificial Intelligence & Machine Learning

Libraries like TensorFlow and PyTorch continue to evolve, making Python the top choice for AI development.

Data Science & Analytics

Tools such as Pandas and NumPy enable efficient data handling and analysis.

Web Development

Frameworks like Django and FastAPI are gaining popularity for building scalable and high-performance applications.

OPPORTUNITIES FOR STUDENTS:

Build projects in AI, web apps, and automation

Participate in hackathons and coding competitions

Contribute to open-source Python projects

Prepare for roles in software development and data science



MS. DHANYA P G
ASSISTANT PROFESSOR, CSE.

Neuromorphic Computing: Designing Computers Like the Human Brain.

Neuromorphic computing is an emerging field in computer science that focuses on designing computer systems inspired by the structure and functioning of the human brain. Traditional computers process instructions sequentially using processors and memory units, while the human brain processes information using billions of interconnected neurons operating in parallel. Researchers aim to replicate this biological model to develop intelligent and energy-efficient computing systems.

The human brain contains approximately 86 billion neurons connected through trillions of synapses. These neurons communicate using electrical impulses and work together to perform complex tasks such as learning, recognition, and decision-making. Neuromorphic computing attempts to mimic this structure by implementing artificial neurons and synapses in specialized hardware chips.

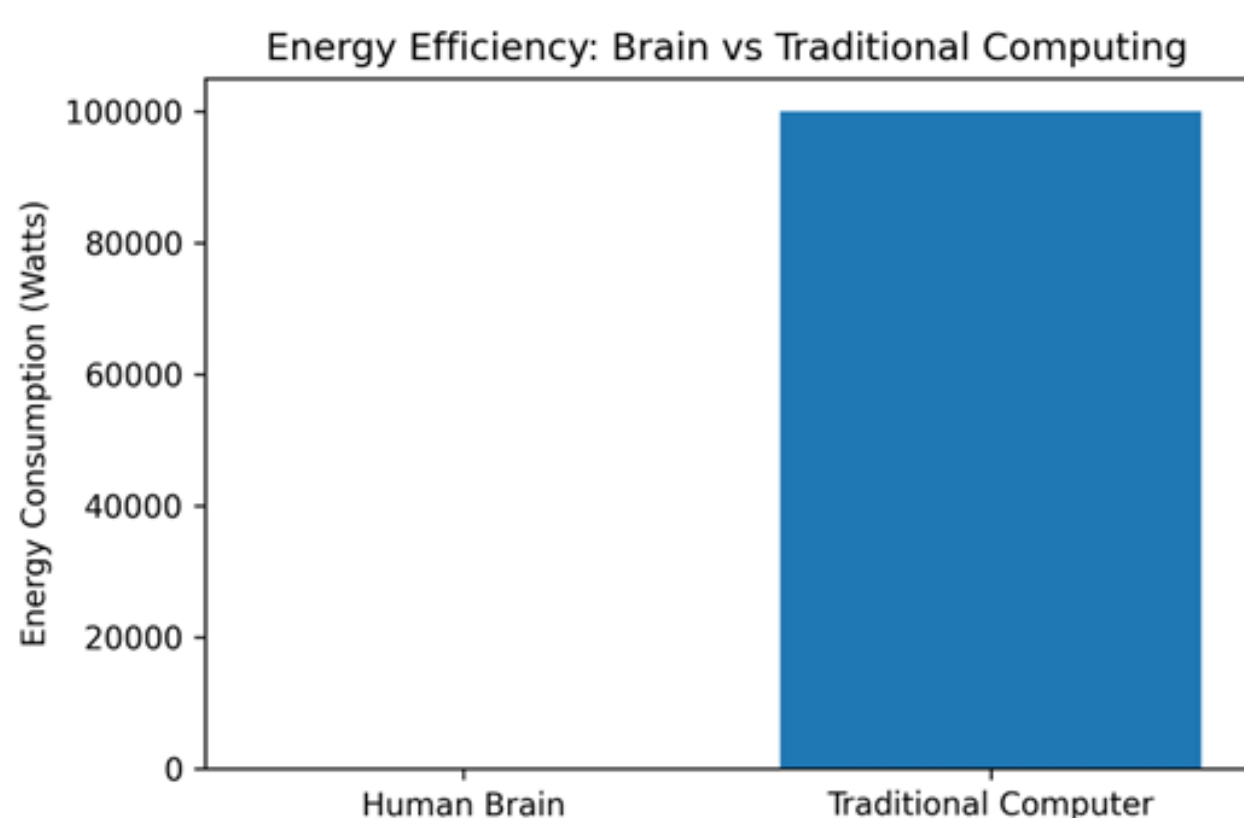


Fig: Comparison of energy consumption between the human brain and traditional computers.

Brain-Inspired Architecture

Neuromorphic systems use artificial neurons and synapses to simulate the functioning of biological neural networks. Unlike traditional processors that rely on clock-driven operations, neuromorphic chips operate in an event-driven manner where processing occurs only when signals are received. This design allows neuromorphic systems to perform computations with extremely low power consumption.

Neuromorphic Architecture

Neuromorphic chips co-locate memory and computation: synaptic weights are stored in the same hardware element that performs the computation. There is no central clock activity is event-driven, meaning chips only consume power when neurons fire. Parallelism is not a feature to be enabled; it is the default operational mode.

Intel's Loihi 2 chip, the hardware platform for Sandia's 2026 breakthrough, integrates up to 1 million artificial neurons on a single chip – each running independently and communicating through spike-based messaging without any central coordination overhead.

Intel Loihi 2

Intel's second-generation neuromorphic research chip, Loihi 2, integrates up to 1 million artificial neurons with on-chip learning capabilities. It uses a fully asynchronous, spike-based communication fabric — no global clock, no central memory bus. The NeuroFEM algorithm's near-ideal scaling on Loihi 2 validates the chip's parallel architecture for scientific computing workloads, not just AI inference.

Advantages of Neuromorphic Computing

Neuromorphic computing offers several advantages compared to conventional computing architectures. First, it provides massive parallelism because many neurons can process information simultaneously. Second, it significantly reduces energy consumption since the system activates only when neurons fire. Third, these systems are highly efficient for pattern recognition tasks such as speech recognition, image analysis, and sensor data processing.

Artificial Neurons and Synaptic Connections

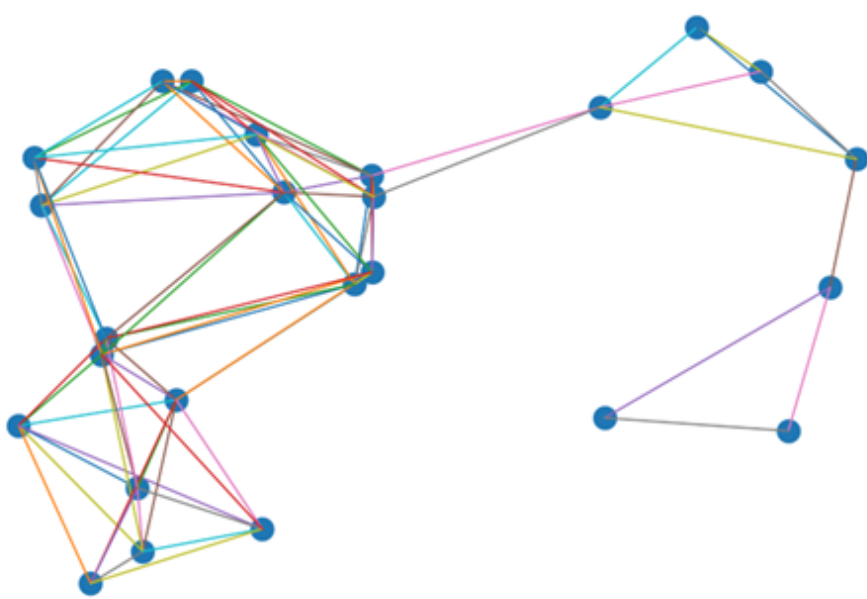


Fig: Example of a neuromorphic network showing artificial neurons connected through synapses.

Applications

Neuromorphic computing has many promising applications in modern technology. It can be used in robotics, autonomous vehicles, artificial intelligence systems, and smart sensors. Neuromorphic processors can analyze visual and auditory signals in real time, making them useful for applications such as facial recognition, voice assistants, and intelligent surveillance systems.

Challenges and Future Scope

Despite its advantages, neuromorphic computing is still in the research stage. Scientists face challenges in designing scalable hardware, developing appropriate programming models, and integrating neuromorphic chips with existing computing systems. However, rapid developments in neuroscience and semiconductor technology are helping researchers overcome these challenges.

Conclusion

Neuromorphic computing represents a revolutionary approach to computer design by combining principles from neuroscience and computer engineering. By mimicking the brain's parallel processing and energy efficiency, neuromorphic systems have the potential to transform artificial intelligence and future computing technologies.



The Triple Revolution: How AI, Quantum Computing, and Edge Technology Are Reshaping Tomorrow Opening the Gates to a New Technological Era.

Picture this: An AI agent schedules your meetings while another generates presentation slides tailored to your style, quantum computers solve problems that would take classical computers millennia, and your smartwatch processes complex health data without ever sending it to the cloud. This isn't science fiction—it's the technological revolution unfolding right now, one that will define careers and reshape industries for our generation.

As college students standing at the threshold of professional life, understanding these three transformative technologies—Generative and Agentic AI, quantum computing with error correction, and edge computing—isn't just academic curiosity. It's career preparation for a world that's being rebuilt from the ground up.

Part 1: The Rise of Generative and Agentic AI Beyond ChatGPT: The New AI Paradigm

Generative AI has exploded from research labs into everyday life faster than any technology in history. But we're already moving beyond simple text generation to something far more powerful: Agentic AI systems that can plan, execute, and adapt autonomously.

What Makes Agentic AI Different:

- **Goal-Oriented Behavior:** Unlike traditional AI that responds to prompts, agentic AI pursues objectives independently
- **Multi-Step Planning:** Can break down complex tasks into actionable steps
- **Tool Integration:** Seamlessly uses various software tools and APIs
- **Tool Integration:** Seamlessly uses various software tools and APIs

Real-World Impact on Campus and Beyond

For Students:

- Research assistants that compile literature reviews and identify knowledge gaps
- Coding companions that debug, optimize, and explain complex algorithms
- Study partners that adapt to individual learning styles

For Future Careers:

- Marketing agents creating entire campaigns autonomously
- Scientific research accelerated by AI-driven hypothesis generation
- Software development with AI pair programmers handling routine tasks

Part 2: Quantum Error Correction – The Holy Grail Achievement

Breaking the Quantum Barrier

Quantum computers promise to revolutionize computing, but they face a fundamental challenge: quantum decoherence. Quantum bits (qubits) are incredibly fragile, losing their quantum properties within microseconds. Recent breakthroughs in error correction are changing everything.

The Milestone Achievements

For Future Careers:

- Achieved “below threshold” error correction
- Errors decrease exponentially as more qubits are added
- Solved a benchmark problem in 5 minutes that would take classical supercomputers 10 septillion years

Why This Matters:

- Drug Discovery: Simulating molecular interactions for personalized medicine
- Climate Modeling: Processing vast datasets for accurate predictions
- Cryptography: Both breaking and creating unbreakable encryption
- Financial Modeling: Optimizing portfolios with unprecedented accuracy

The Path Forward

The achievement of scalable error correction means quantum computers are transitioning from laboratory curiosities to practical tools. For students in physics, computer science, and engineering, this opens entirely new career paths in quantum algorithm development and quantum software engineering.

Part 3: Edge Computing – Intelligence at the Speed of Light

Bringing AI to Your Fingertips

While cloud computing centralized processing power, edge computing is redistributing it—bringing computation closer to where data is generated. This shift is crucial for real-time AI applications.

The Edge Advantage

Speed and Responsiveness:

- Latency reduced from 100ms (cloud) to <1ms (edge)
- Critical for autonomous vehicles, AR/VR, and real-time translation

Privacy and Security:

- Data processed locally, never leaving the device
- Reduced attack surface for cybercriminals
- Compliance with data sovereignty regulations

Efficiency and Scalability:

- Reduced bandwidth costs by 90% for IoT deployments
- Lower energy consumption through localized processing
- Enables truly offline-capable AI applications

Campus Applications Already Here

- Smart Buildings: HVAC systems that adapt to occupancy patterns in real-time
- Security Systems: Facial recognition that processes locally for privacy
- Research Equipment: Lab instruments with built-in AI analysis
- Research Equipment: Lab instruments with built-in AI analysis

Conclusion: Your Role in the Revolution

As college students, you're not just witnesses to this technological revolution—you're its architects. The convergence of Generative and Agentic AI, quantum error correction, and edge computing isn't happening in some distant future. It's happening now, in research labs on your campus, in startups founded by recent graduates, and in the projects you're working on today.

The question isn't whether these technologies will transform the world—they already are. The question is: What role will you play in shaping how they do it?

Whether you're studying computer science, engineering, business, or liberal arts, these technologies will impact your field. The students who understand them, who can work with them, and who can guide their ethical development will be the leaders of tomorrow.

The future isn't just coming—it's here, running on quantum processors, thinking with artificial intelligence, and computing at the edge of possibility. And it's waiting for you to help write the next chapter.

"The best way to predict the future is to invent it." – Alan Kay

MS. DEEPTHY P S

ASSISTANT PROFESSOR, CSE.



ALUMNI CORNER

ALUMNI WRITE - UP



Merin E
2021-25 Batch

MAKE IT COUNT

What Every B.Tech Student Should Be Doing Right Now—An Alumni Perspective

Four years. That's all you get — and it flies. When it's over, nobody asks your CGPA alone. They ask: **What did you build? What did you do? Whodid you become?** Here is an honest, no-fluff guide to making your B.Tech years truly count.

Engineering is not just a degree. It is a four-year invitation to think, create, collaborate, and grow. The classroom gives you knowledge — but everything around it gives you wisdom. The projects you build, the competitions you enter, the people you meet, and the failures you survive — these shape the professional, the thinker, and the human being you are meant to become.

 Build Projects Start building from semester one. Ownership teaches more than any lecture.	 Hack & Compete Enter hackathons unprepared. Pressure builds what no exam ever can.	 Research & Publish Read papers, attend seminars, explore emerging tech. Curiosity is the beginning of every breakthrough.	 Network Genuinely Build real bonds with seniors, faculty & industry — doors will open.
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YOUR ACTION GUIDE — 8 THINGS TO DO BEFORE YOU GRADUATE

01	Build Something Genuine. Lectures lay the foundation — your projects build the structure on top. Start building from semester one.	02	Compete in Hackathons. Enter even without a plan. The pressure is the curriculum. Walk out sharper every single time.
03	Learn a New Skill Each Semester. Data science, cybersecurity, UI/UX, cloud — explore freely while you still have the freedom to fail.	04	Read Beyond the Syllabus. Follow tech blogs, papers and podcasts. The world moves faster than textbooks. Stay ahead.
05	Attempt Research Once. Writing a paper sharpens thinking unlike anything else. Ask better questions — the most underrated skill.	06	Fail Loudly, Learn Faster. Submit the risky project. Enter the competition you might lose. Every failure is data, not defeat.
07	Network with Purpose. Talk to seniors and professors beyond class. These relationships open doors you cannot yet imagine.	08	Protect Your Wellbeing. Burnout is real. Balance is strategy. Sleep, move, rest. A rested mind always outperforms an exhausted one.

BEFORE YOU GRADUATE — CHECK THESE OFF

◆ Build 2+ end-to-end projects with real impact ◆ Attend a national-level hackathon or tech fest ◆ Earn a certification in your area of interest ◆ Maintain an active GitHub profile	◆ Build your LinkedIn and professional network early ◆ Find a mentor — senior, professor or industry ◆ Read at least one research paper per month ◆ Prioritize your physical and mental health always
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*“Engineering college is one of the rare places where experimentation is not just allowed — it is **celebrated**. Don't just pass through it. Make your mark on it.”*

The best time to start was your first year.

The second best time is RIGHT NOW.

Carry ASET's spirit of learning and excellence with you — and one day, come back and inspire the next generation just as those before you inspired yours.

ALUMNI TALK

**AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY**
ISO 9001: 2015 Certified Institution | Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
Ahalia Campus, Palakkad | Ph: 04923 226666

**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**

Alumni Talk On
**AI-DRIVEN CAREER PATHS:
FUTURE OPPORTUNITIES FOR CSE STUDENTS**

SPEAKER

Ms. Praveena R (2020-2024 Batch CSE)
Associate Software Engineer
Vaisesika consulting pvt limited, Infopark, Kochi.

DATE : 27/02/2026 , FRIDAY
TIME : 09 : 30 AM - 11 : 30 AM
VENUE : SEMINAR HALL, CSE BLOCK



The Department of Computer Science and Engineering at Ahalia School of Engineering & Technology hosted an insightful alumni talk on “AI-Driven Career Paths: Future Opportunities for CSE Students.” The session featured Ms. Praveena R, an accomplished alumna from the 2020–2024 batch, currently working as an Associate Software Engineer at Vaiseshika Consulting Pvt. Ltd., Infopark, Kochi. Through her engaging presentation, she shared her journey from campus to corporate life, offering valuable perspectives on how emerging technologies like Artificial Intelligence are shaping the future of careers in the tech industry.

The talk provided students with a clear understanding of the skills required to thrive in an AI-driven world, emphasizing the importance of continuous learning, adaptability, and hands-on experience. Ms. Praveena also guided students on industry expectations, interview preparation, and building a strong technical foundation. The session was highly interactive, inspiring attendees to explore new career possibilities and equipping them with practical knowledge to confidently step into the evolving landscape of computer science.

GSE EVENTS

TINK-HER-HACK 4.0



TINK-HER-HACK 4.0, HELD ON 27-28 FEBRUARY, CONCLUDED SUCCESSFULLY AFTER 18 HOURS OF CONTINUOUS CODING, INNOVATION, AND COLLABORATION. THE HACKATHON BROUGHT TOGETHER ENTHUSIASTIC PARTICIPANTS WHO WORKED IN TEAMS TO DEVELOP CREATIVE TECHNOLOGICAL SOLUTIONS WHILE SHOWCASING THEIR TECHNICAL SKILLS AND PROBLEM-SOLVING ABILITIES.

THE EVENT WAS ORGANIZED WITH THE OBJECTIVE OF ENCOURAGING INNOVATION, TEAMWORK, AND TECHNICAL EXCELLENCE, WHILE ALSO PROMOTING THE ACTIVE PARTICIPATION OF WOMEN IN TECHNOLOGY. THE ATMOSPHERE THROUGHOUT THE HACKATHON WAS VIBRANT, FILLED WITH CREATIVITY, LEARNING, AND HEALTHY COMPETITION. WE EXPRESS OUR SINCERE GRATITUDE TO THE RESPECTED PRINCIPAL FOR THE CONSTANT SUPPORT AND ENCOURAGEMENT, AND TO ALL FACULTY MEMBERS, MENTORS, PARTICIPANTS, AND THE ORGANIZING TEAM WHOSE DEDICATION AND EFFORTS MADE THE EVENT A GRAND SUCCESS.

TINK-HER-HACK 4.0 TRULY SERVED AS A PLATFORM TO INSPIRE INNOVATION AND STRENGTHEN THE SPIRIT OF COLLABORATION WITHIN THE INSTITUTION.

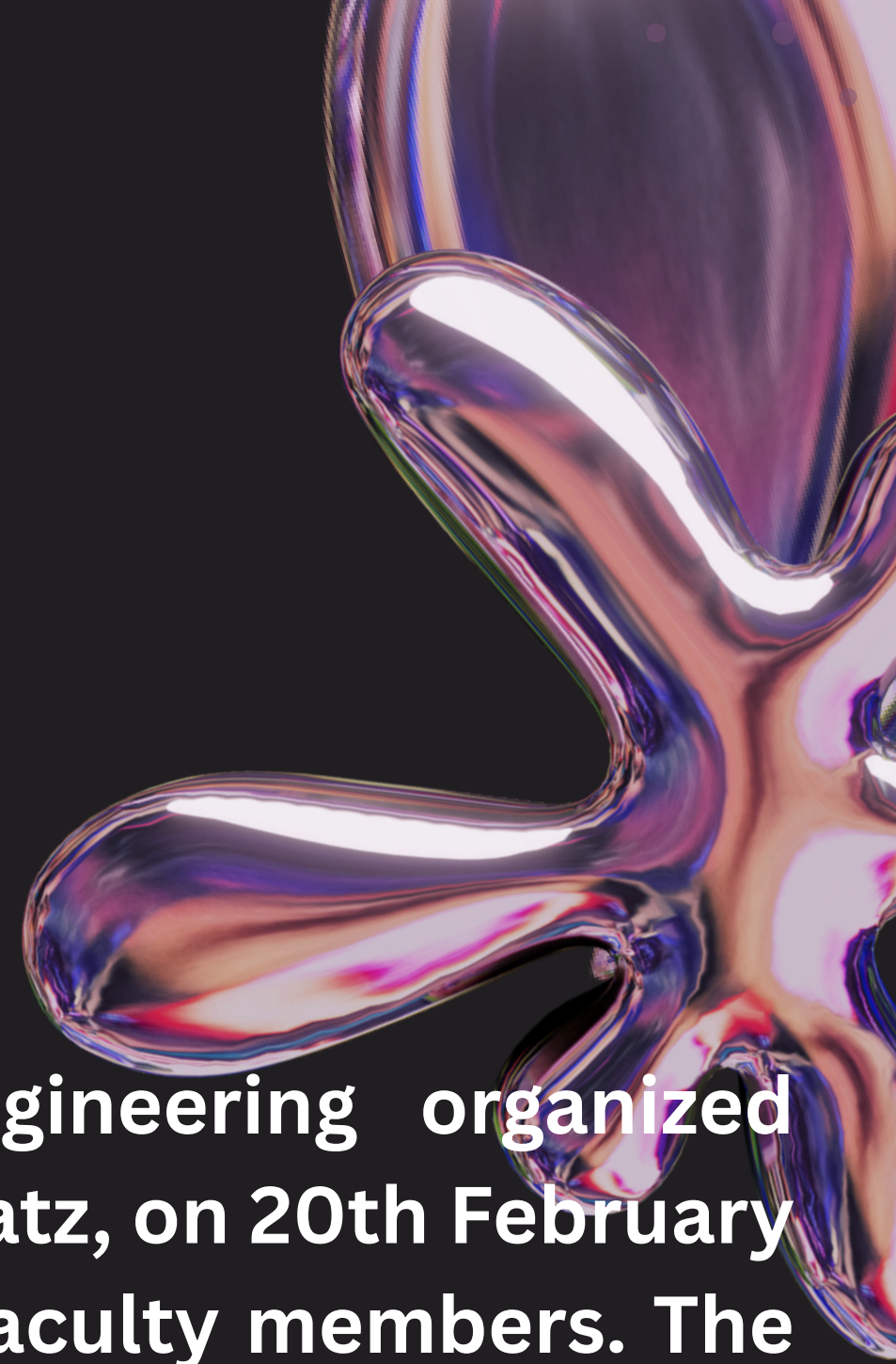
ALGORYTHM – CSE ASSOCIATION DAY

20th February 2026

The Department of Computer Science and Engineering organized Algorythm CSE Association Day as part of Technocratz, on 20th February 2026 with active participation from students and faculty members. The inaugural session featured the prayer song by Aiswarya K V and Nandana R (S3 CSE), followed by the welcome address by Dr. Reshmi B, Associate Professor, Department of CSE. The Presidential address was delivered by Dr. P R Suresh, Principal, ASET, and the Felicitation address by Dr. Krishna Kumar Kishor, Vice Principal, ASET. The Inaugural address was given by Dr. S Gunasekaran, Professor and Head of the Department of CSE. The Association Event Briefing was presented by E A Aadith Kumar, President, Technocratz, and the program concluded with the Vote of Thanks by Nithya R, Secretary, Technocratz.

As part of Algorythm, various technical and non-technical events including Meme Paintbrush Madness, Kick Off.exe (E-Football PES Tournament), UNO Challenge, Hunt.exe, Reel Contest, Keymasters, and Treasure Hunt were conducted successfully, and winners were awarded cash prizes.

In addition, a workshop on “Entrepreneurship: Opportunities, Challenges, and Innovation in the Modern Era” was conducted on 23rd February 2026 at Visvesvaraya Hall from 10 AM to 12 PM. The session was handled by Ms. Vinitha Joseph, Senior Technology Fellow, Kerala Startup Mission, who shared valuable insights on entrepreneurship and innovation. The workshop was convened by Dr. S Gunasekaran, HoD, CSE, and coordinated by Dr. Reshmi B, Associate Professor and Association Coordinator. The session was highly informative and well-received by the participants.





HANDS-ON WORKSHOP ON FULL STACK MOBILE APP DEVELOPMENT

18-02-2026

19-02-2026



The Department of Computer Science and Engineering conducted a one-day hands-on workshop titled “Full Stack Mobile App Development (Android + Firebase + Python + MongoDB)” on 18-02-2026 and 19-02-2026. This comprehensive workshop was designed to provide students with practical experience in modern mobile application development, covering the entire technology stack from frontend Android development to backend databases.

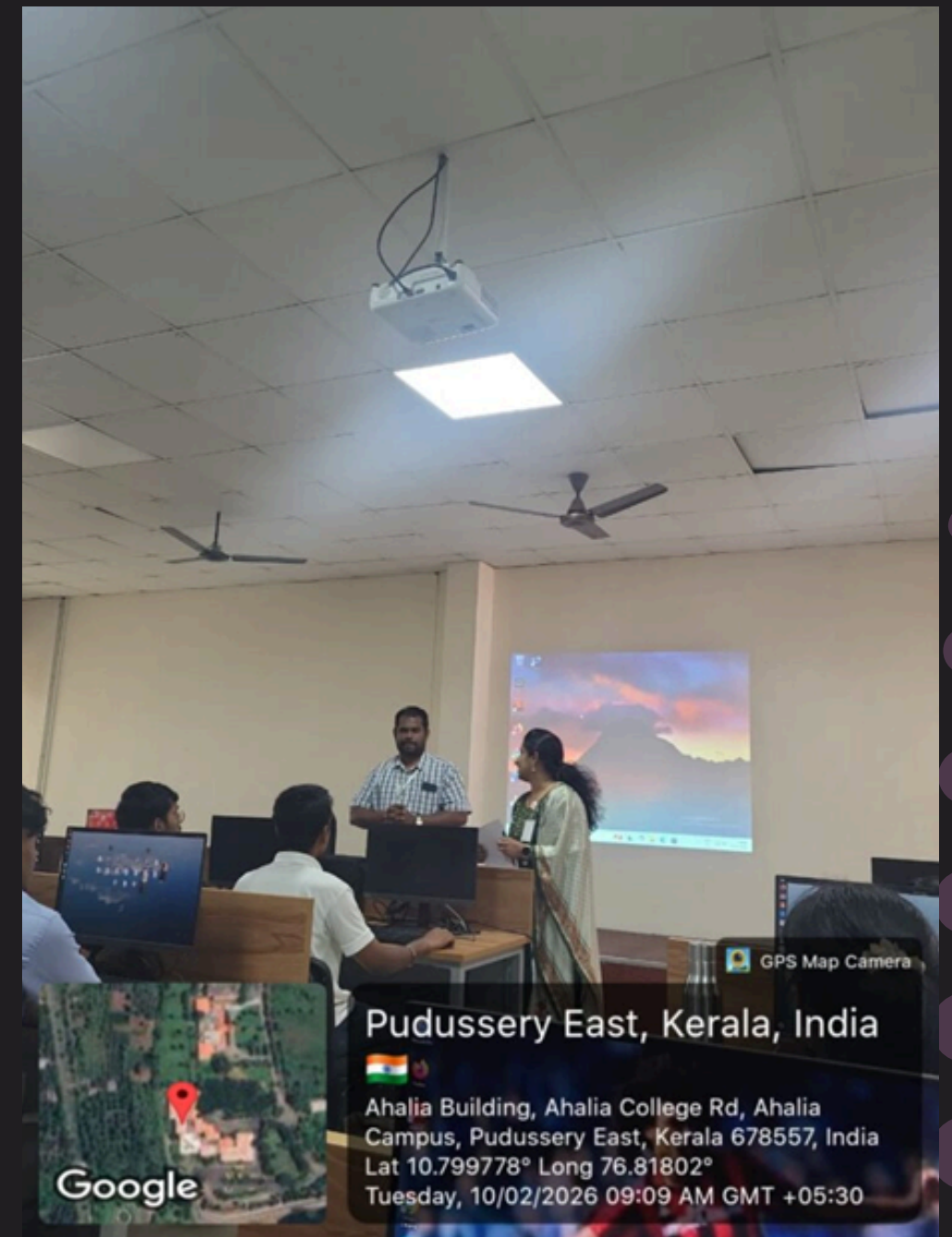
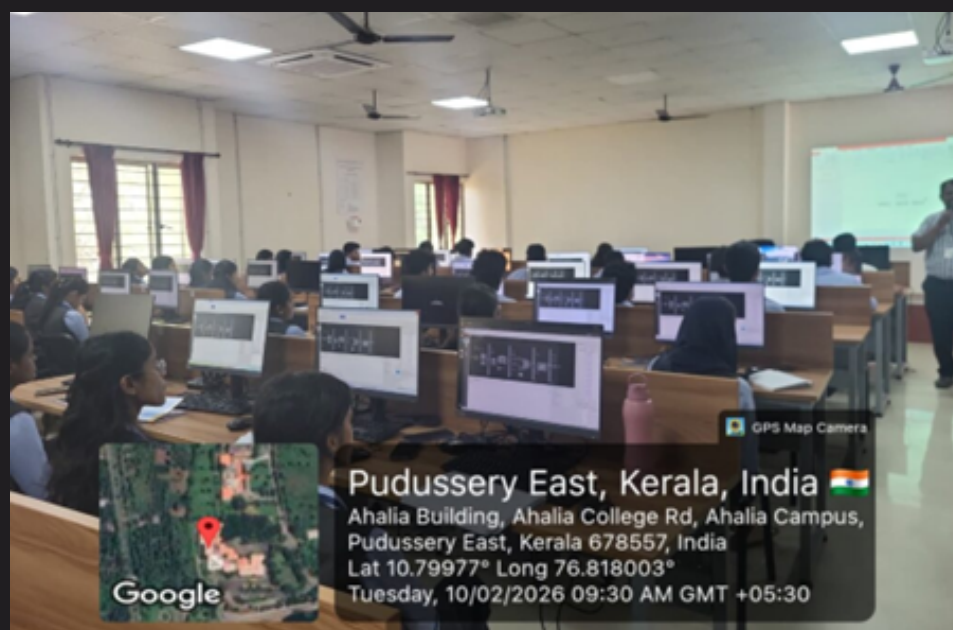
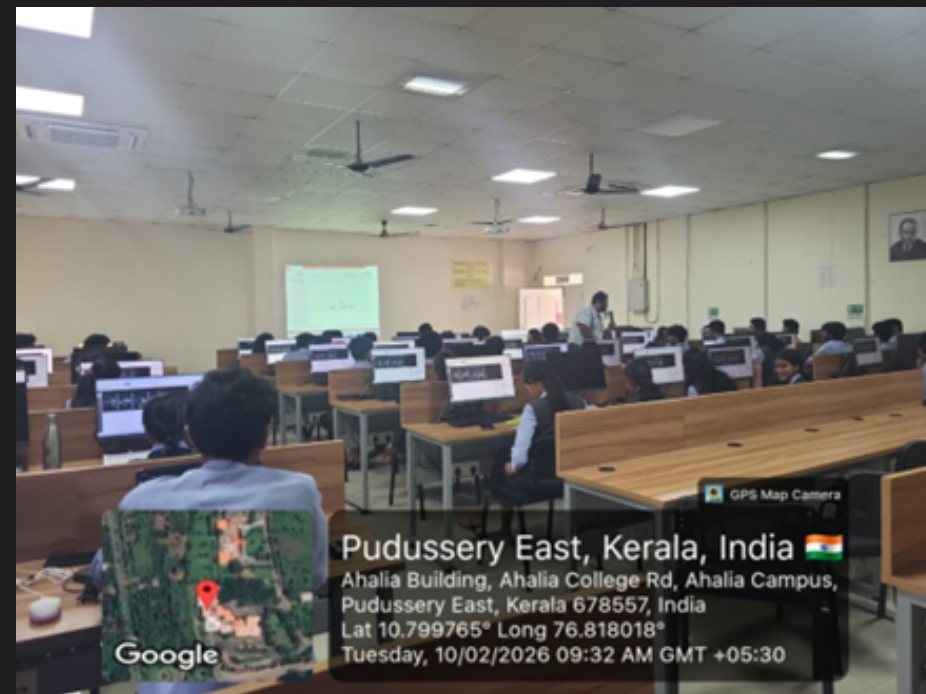
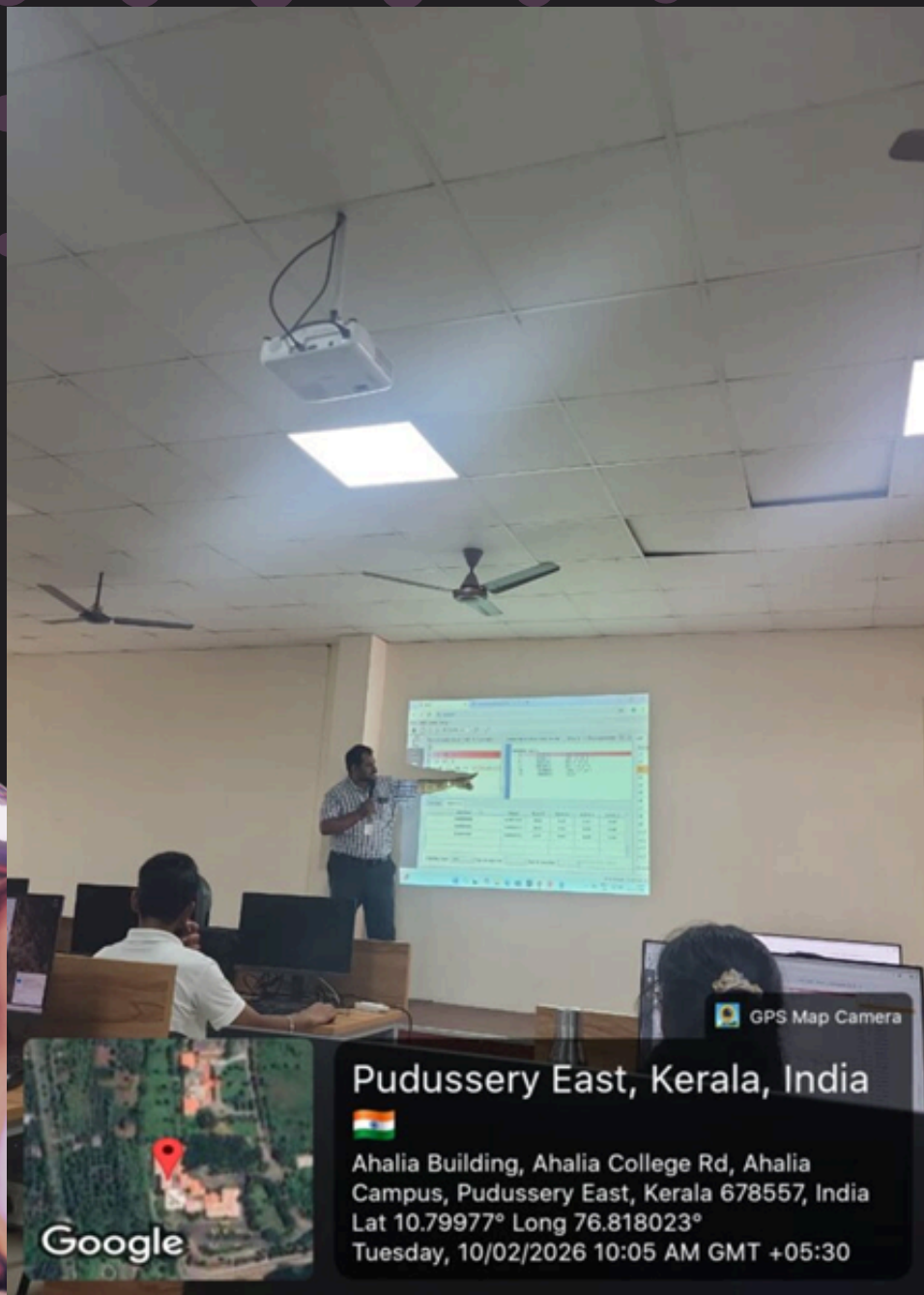
Resource Person

The workshop was conducted by Mr. Anees Nassar, Mobile Application Senior Developer/AI Architect, Accenture, Bangalore. The resource person brought extensive industry experience in mobile application development and backend architecture, having worked on numerous production applications.

The session aimed at bridging the gap between theoretical concepts and real-world implementation. Students gained hands-on experience with Android Studio, Firebase services, Python backend development, and MongoDB database management. The workshop emphasized practical skills that are highly relevant in today’s job market.

The workshop also emphasized analytical thinking, debugging skills, and understanding of full-stack architecture, thereby equipping students with industry-relevant competencies essential for developing production-ready mobile applications.

HANDS-ON WORKSHOP ON RISC-V ASSEMBLY PROGRAMMING USING RIPES SIMULATOR.



The Department of Computer Science and Engineering conducted two-day hands-on workshop titled “Hands-on Workshop on RISC-V Assembly Programming using Ripes Simulator.” The workshop was organized to provide students with practical exposure to RISC-V Assembly Programming and to strengthen their understanding of Computer Organization and Architecture (COA) concepts through simulation-based learning. The workshop was conducted by Mr. Boobalan T., M.E., (Ph.D), CTO, R2C Technologies, Coimbatore. Mr. Boobalan shared his industry expertise and academic knowledge in RISC-V architecture and processor design. He provided detailed explanations of RISC-V instruction formats, register organization, and assembly programming concepts. Through live demonstrations using the RIPES simulator, he illustrated how instructions are executed inside the CPU and how data flows through different components of the processor.

SEMINAR ON “GENERATIVE AI IN DATA ANALYTICS”



The Department of Computer Science and Engineering (CSE) at Ahalia School of Engineering & Technology (ASET), Palakkad, organized a seminar on 27 January 2026 (Tuesday) from 1:15 PM to 4:15 PM at the CSE Seminar Hall. The session was led by Mr. Sudhesh K M, Research Scholar from Amrita School of Computing, Ettimadai, Coimbatore.

The seminar aimed to introduce students and faculty to emerging concepts in Generative Artificial Intelligence (AI) and its expanding role in Data Analytics, focusing on bridging the gap between theoretical knowledge and practical, real-world AI-driven analytical applications.

QUANTUM COMPUTING: ALGORITHMS AND PRACTICALITY



On the 12th of January 2026, the Department of Computer Science and Engineering, Ahalia School of Engineering, organized a guest lecture titled “Quantum Computing: Algorithms and Practicality”, delivered by Mr. Ravishankar Ashok Kumar, Researcher and Software Engineer at QuTech, Delft University of Technology, Netherlands. The session commenced at 11:00 AM.

Mr. Ravishankar shared his academic and professional journey from his graduation at TKM College of Engineering to his current research in quantum computing at QuTech, University of Delft, offering valuable insights into building a research-driven career.

The lecture covered fundamental concepts of quantum computing, algorithms, and their practical limitations, along with current developments and future prospects of the field. The speaker also cautioned students about the hype surrounding emerging technologies, encouraging a balanced and realistic approach. A 45-minute interactive session followed the talk, during which students clarified doubts related to quantum computing, computer science, and higher education opportunities in quantum computing in Europe. The session concluded at 1:00 PM, marking a meaningful and engaging academic interaction.

GATE PREPARATION

13-01-2026



THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING RECENTLY ORGANIZED AN INSIGHTFUL GATE (GRADUATE APTITUDE TEST IN ENGINEERING) PREPARATION SESSION FOR THE STUDENTS OF S4 CSE B. THE INITIATIVE AIMED TO INTRODUCE STUDENTS TO THE IMPORTANCE OF GATE, ITS STRUCTURE, AND EFFECTIVE STRATEGIES TO BEGIN PREPARATION EARLY IN THEIR ACADEMIC JOURNEY.

HANDS-ON WORKSHOP ON CISCO PACKET TRACER, WIRESHARK, AND NS2 SIMULATOR



The poster is for a hands-on workshop. At the top, it features the Ahalia School of Engineering & Technology logo, which includes a gear and a network diagram. The school's name is in bold, and below it, smaller text mentions ISO 9001:2015 certification and affiliation with A.P.J. Abdul Kalam Technological University. To the right of the school name is the NAAC logo. Below the school information, it says 'Department of Computer science & Engineering'. The main title of the workshop is 'HANDS ON WORKSHOP ON CISCO PACKET TRACER WHIRESHARK & NS2 SIMULATOR'. On the left, there is a circular portrait of a man with a beard and a blue shirt. To his right is a graphic of a blue rocket launching from a base. Below the portrait, the text identifies the resource person as 'Sudhesh K M, Research Scholar'. Further down, it lists the convenor as 'Dr.S Gunasekaran, HoD CSE' and the program coordinators as 'Anisree PG' and 'Kavitha S'. On the right side of the poster, the date '13-3-2026' and '16-3-2026' are listed, along with the venue 'Lab 3'. The poster has a blue background with white and yellow text and graphics.

Accredited by NAAC

Department of Computer science & Engineering

HANDS ON WORKSHOP ON CISCO PACKET TRACER WHIRESHARK & NS2 SIMULATOR

Resource person :
Sudhesh K M,
Research Scholar

Convenor :
Dr.S Gunasekaran , HoD CSE
Program coordinators :
Anisree PG
Kavitha S

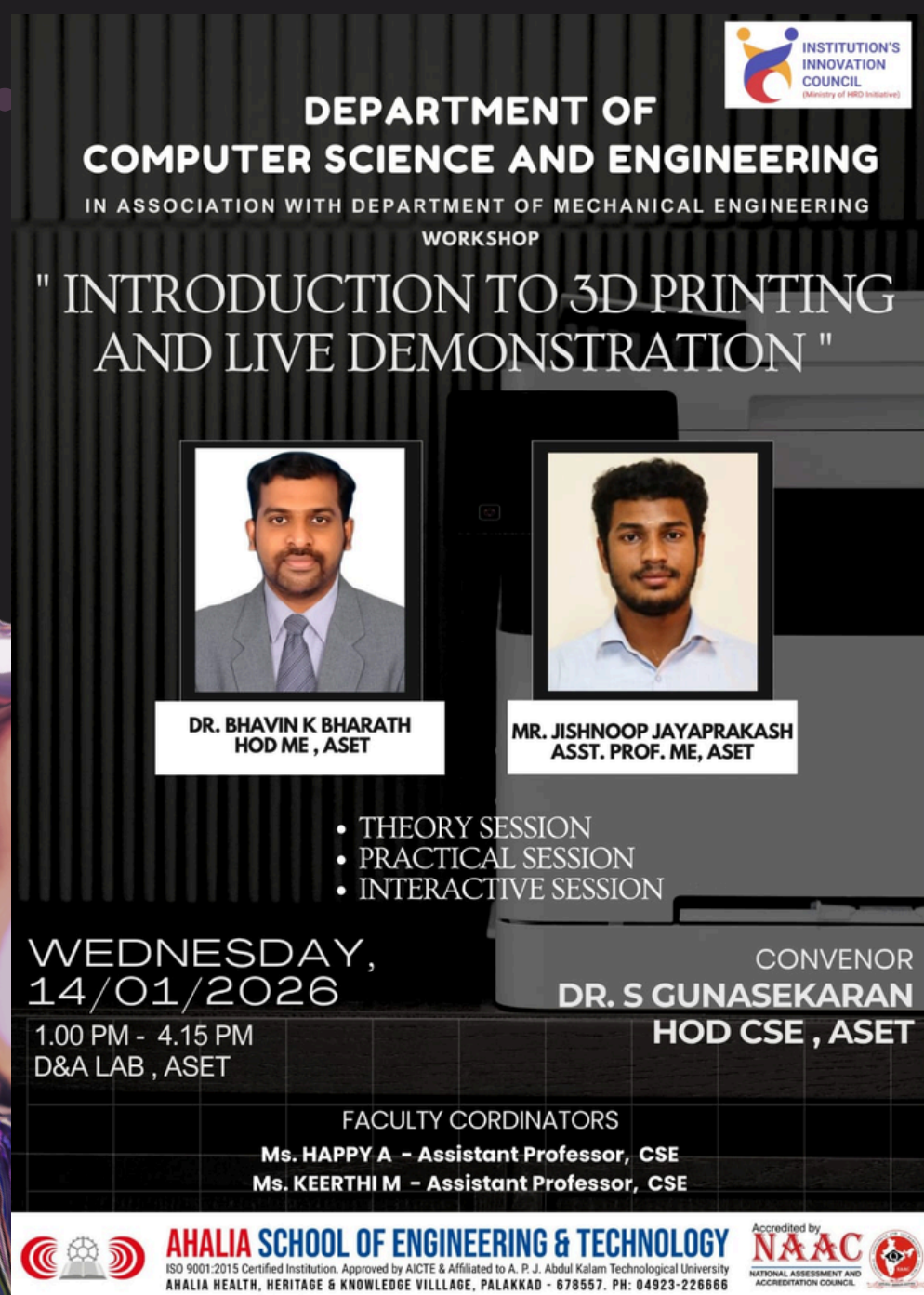
Date: 13-3-2026
16-3-2026
venue : Lab 3



The Department of Computer Science and Engineering at Ahalia School of Engineering and Technology successfully organized a hands-on workshop on Cisco Packet Tracer, Wireshark, and NS2 Simulator for the S6 CSE A and B students from 13th and 16th March 2026 at Lab 3. The session was led by Mr. Sudhesh K M, Research Scholar, who served as the resource person. The workshop aimed to provide students with practical exposure to networking tools, simulation techniques, and real-time packet analysis, bridging the gap between theoretical concepts and industry-oriented skills.

The program was conducted under the guidance of Dr. S. Gunasekaran, HoD CSE, and was coordinated by Assistant Professors Anisree PG and Kavitha S from the Department of CSE. Students actively engaged in hands-on activities using Cisco Packet Tracer, Wireshark, and NS2 Simulator, which helped them strengthen their practical knowledge and problem-solving skills in networking. The workshop proved to be an insightful and enriching experience for all participants.

HANDS-ON WORKSHOP ON “INTRODUCTION TO 3D PRINTING AND LIVE DEMONSTRATION.”



**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**
IN ASSOCIATION WITH DEPARTMENT OF MECHANICAL ENGINEERING
WORKSHOP

**"INTRODUCTION TO 3D PRINTING
AND LIVE DEMONSTRATION"**

DR. BHAVIN K BHARATH
HOD ME, ASET

MR. JISHNOOP JAYAPRAKASH
ASST. PROF. ME, ASET

- THEORY SESSION
- PRACTICAL SESSION
- INTERACTIVE SESSION

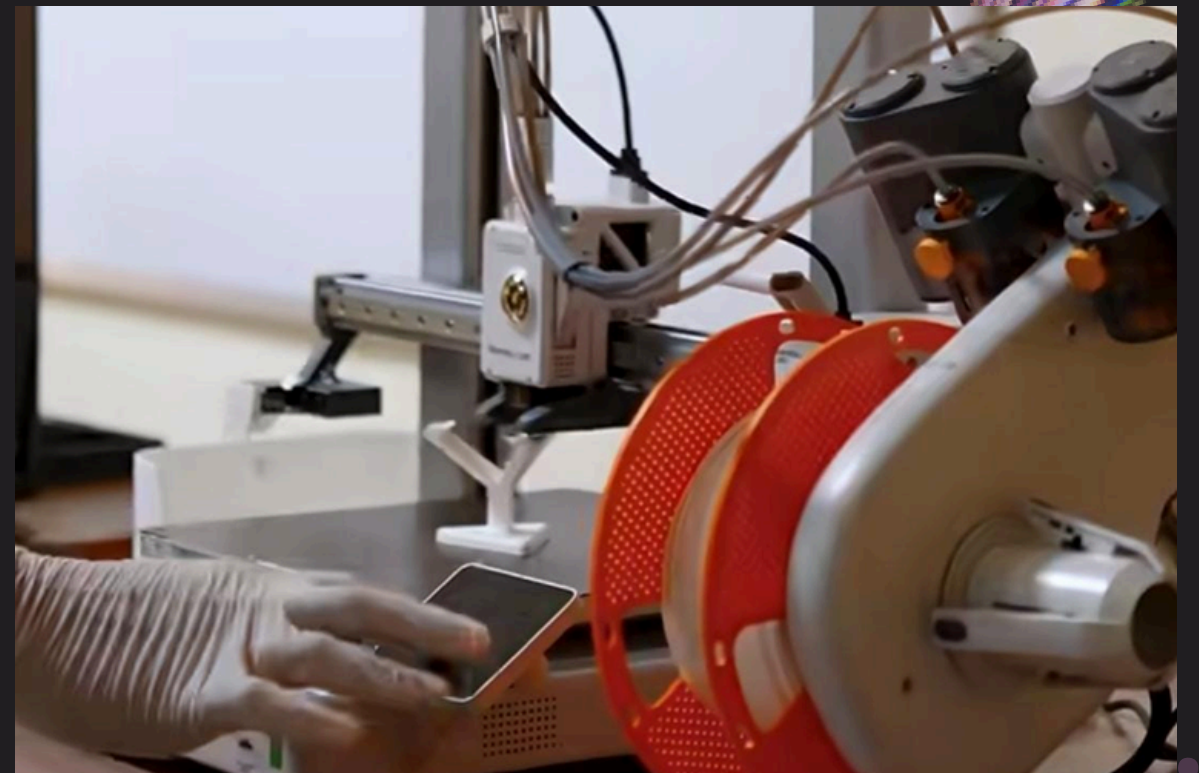
**WEDNESDAY,
14/01/2026**
1.00 PM - 4.15 PM
D&A LAB, ASET

CONVENOR
DR. S GUNASEKARAN
HOD CSE, ASET

FACULTY COORDINATORS
Ms. HAPPY A - Assistant Professor, CSE
Ms. KEERTHI M - Assistant Professor, CSE

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY
ISO 9001:2015 Certified Institution. Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
AHALIA HEALTH, HERITAGE & KNOWLEDGE VILLAGE, PALAKKAD - 678557. PH: 04923-228666

Accredited by **NAAC**
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



The Department of Computer Science and Engineering, in association with the Department of Mechanical Engineering, organized a workshop titled “Introduction to 3D Printing and Live Demonstration.” The session was designed to provide participants with a foundational understanding of 3D printing technology, including its principles, processes, and real-world applications. The workshop featured expert guidance from Dr. Bhavin K. Bharath, Head of the Mechanical Engineering Department, and Mr. Jishnoop Jayaprakash, Assistant Professor, who shared both theoretical insights and practical knowledge.

The program included a well-structured combination of theory sessions, practical demonstrations, and interactive discussions to ensure comprehensive learning. Conducted on Wednesday, 14 January 2026, at the D&A Lab, ASET, the workshop offered attendees hands-on exposure to 3D printing techniques and equipment. Coordinated under the leadership of Dr. S. Gunasekaran, Head of the Computer Science and Engineering Department, the event successfully enhanced participants’ technical awareness and engagement in emerging manufacturing technologies.

INDUSTRIAL VISIT TO ZEPHYR TECHNOLOGIES

26/2/26



The students of S4 CSE B recently embarked on an insightful industrial visit to Zephyr Technologies & Software Solutions Pvt. Ltd., Mangaluru. The visit provided a valuable opportunity to bridge the gap between academic learning and real-world industry practices.

During the session, professionals from the company shared their expertise on current trends in software development, emerging technologies, and the expectations of the IT industry. The interactive discussions and demonstrations offered students a deeper understanding of practical applications and career pathways.

INDUSTRIAL VISIT TO ZEPHYR TECHNOLOGIES

13/3/26



The students of S4 CSE A recently embarked on an insightful industrial visit to Zephyr Technologies & Software Solutions Pvt. Ltd., Mangaluru. The visit provided a valuable opportunity to bridge the gap between academic learning and real-world industry practices.

During the session, professionals from the company shared their expertise on current trends in software development, emerging technologies, and the expectations of the IT industry. The interactive discussions and demonstrations offered students a deeper understanding of practical applications and career pathways.

INDUSTRIAL VISIT TO QSPIDERS, NOIDA



On 24/02/2026, the students of S6 CSE B had the opportunity to visit QSpiders – Software Development Training & Placement Institute, Noida. The visit aimed to provide practical exposure to the world of software development and industry-oriented training.

During the session, experts shared valuable insights into programming skills, current industry requirements, and effective placement preparation strategies. The interactive sessions helped students understand the importance of technical proficiency and continuous learning.

This visit was an enriching experience that motivated students to enhance their skills and prepare confidently for future career opportunities in the IT industry.

INDUSTRIAL VISIT TO BITS PILANI, GOA CAMPUS

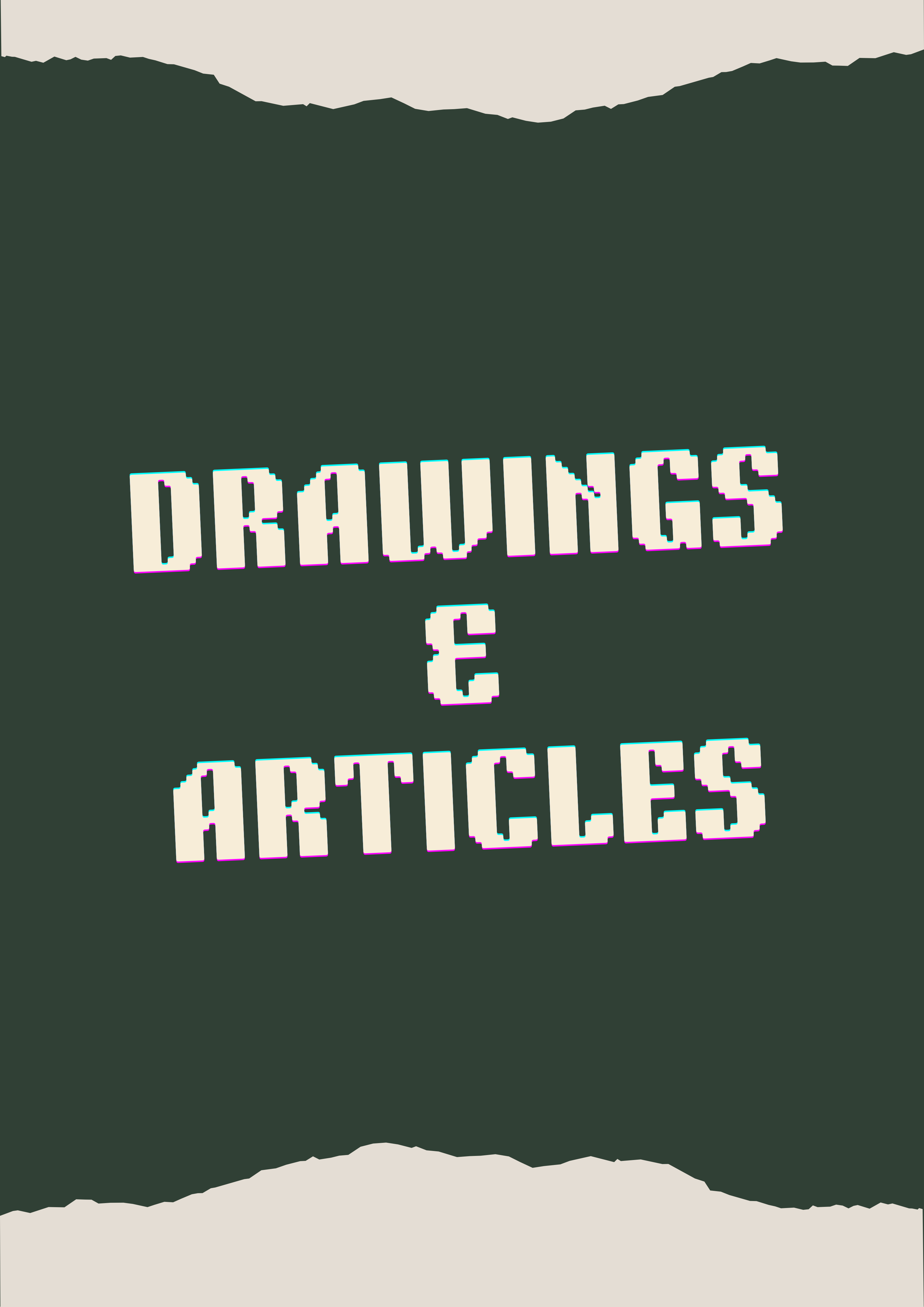
28/02/2026



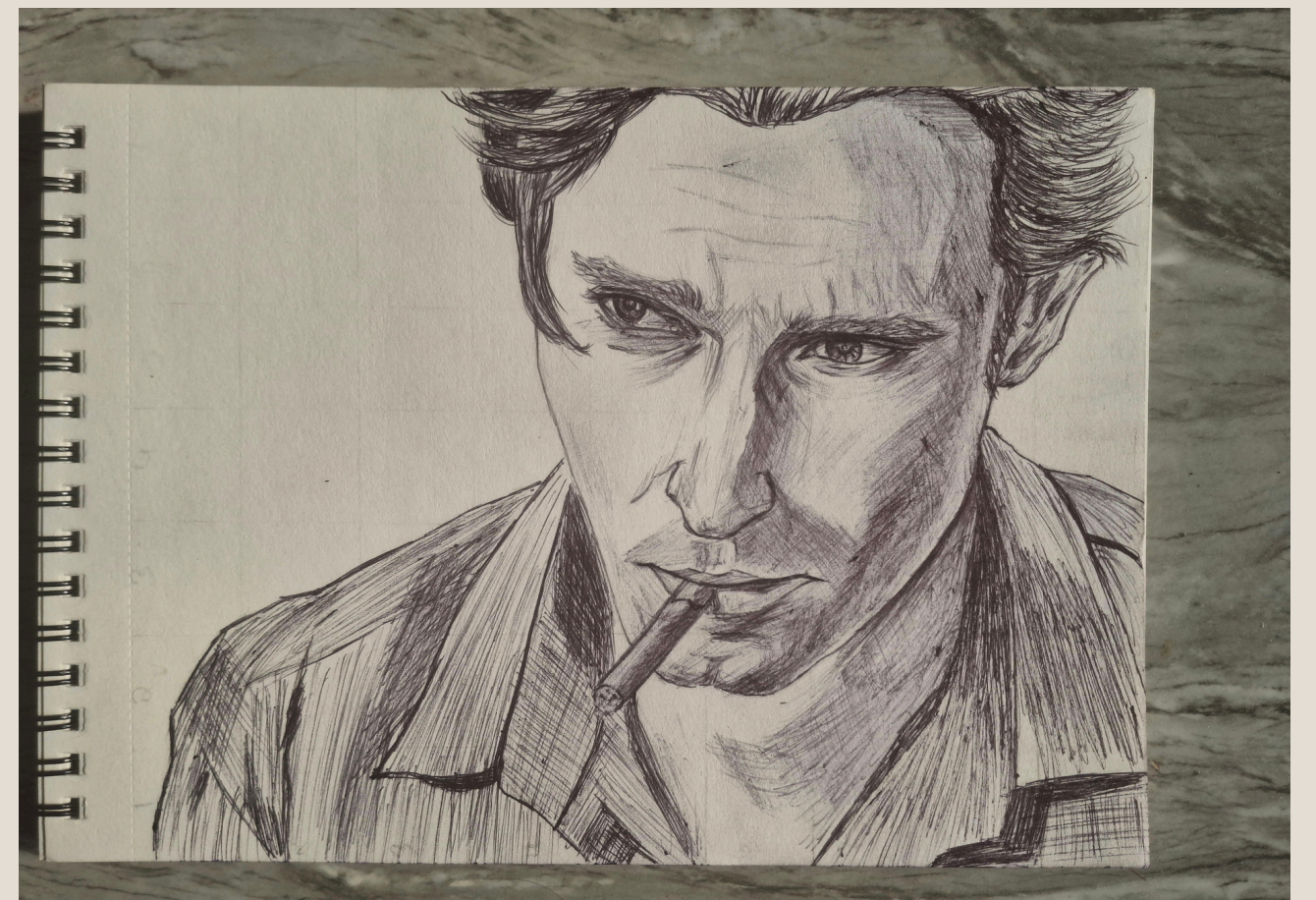
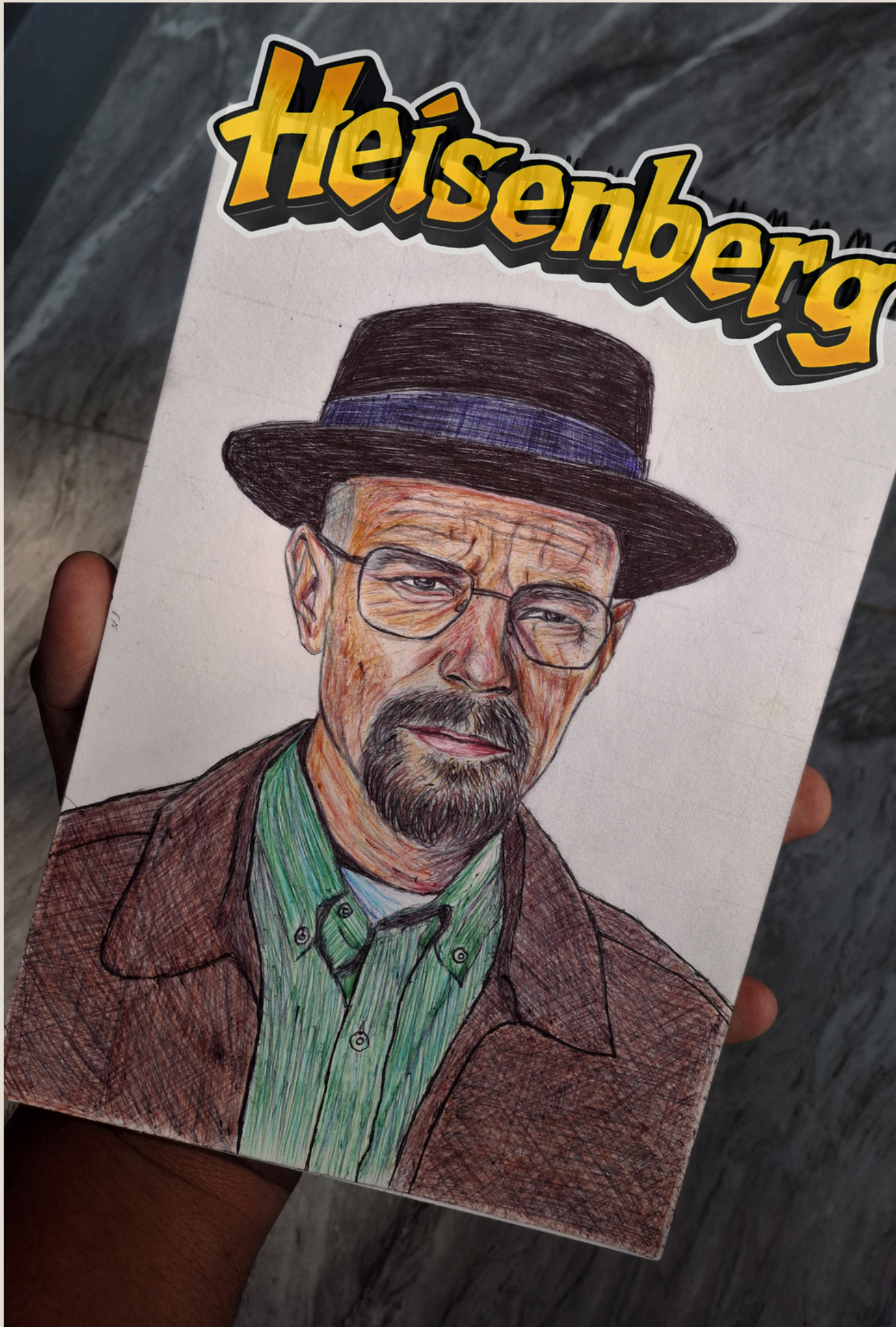
The students of S8 CSE had the opportunity to visit Birla Institute of Technology and Science, Pilani, Goa, India. The visit aimed to provide exposure to a premier institution known for its excellence in education, research, and innovation.

During the visit, students explored the campus facilities, laboratories, and ongoing research activities. Informative sessions conducted by faculty and students offered insights into advanced technologies, academic opportunities, and innovation-driven projects.

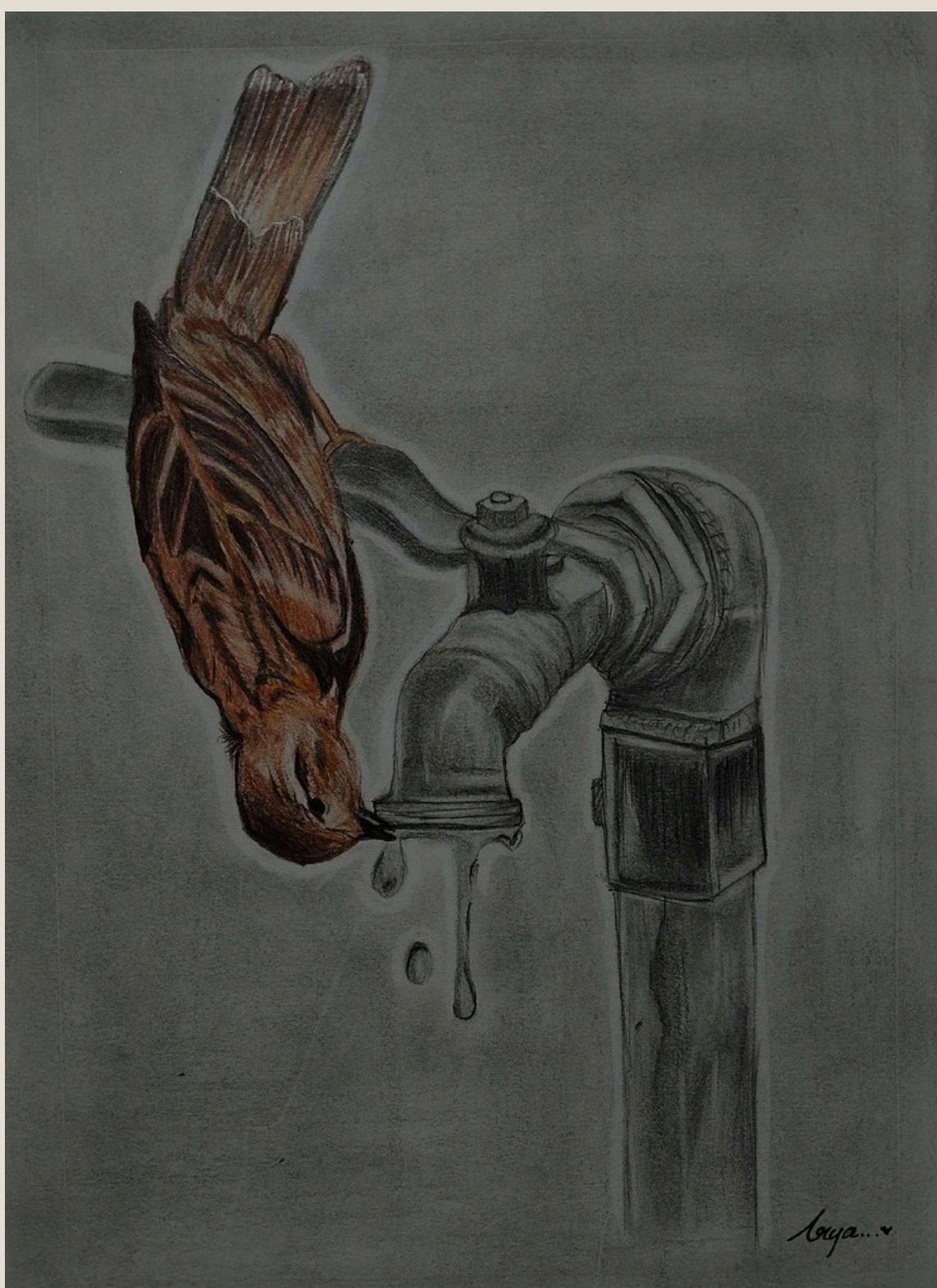
The visit was an inspiring experience that broadened our perspective on higher education and research, motivating us to strive for academic and professional excellence.



DRAWINGS & ARTICLES



MIDHUN T CHANDRAN
S6 CSE(A)



ARYA P M
S6 CSE (A)

What's
New?

Samsung Galaxy S26 Ultra 17.5 cm (6.9") Dual SIM Android 16.0
5G USB Type-C 12 GB 256 GB 5000 mAh Black

Brand : Samsung Product family: Galaxy Product code: SM-S948BZKDEUB

Product name : Galaxy S26 Ultra



Samsung Galaxy S26 Ultra . Display diagonal: 17.5 cm (6.9"), Display resolution: 3120 x 1440 pixels. Processor family: Snapdragon, Processor model: 8 Elite Gen 5. RAM capacity: 12 GB, Internal storage capacity: 256 GB. Rear camera resolution (numeric): 200 MP, Rear camera type: Quad camera. SIM card capability: Dual SIM. Operating system installed: Android 16.0. Battery capacity: 5000 mAh. Product colour: Black. Weight: 214 g

Display		Camera	
Display diagonal *	17.5 cm (6.9")	Slow motion rate	240fps in FHD, 120fps in FHD, 120fps in UHD
Screen shape	Flat	AI scene recognition	✓
Display technology marketing name	Dynamic AMOLED 2X	Network	
Display glass type	Gorilla Glass	SIM card capability *	Dual SIM 5G NanoSIM + eSIM UMTS, WCDMA LTE-TDD & LTE-FDD Sub6 FDD, Sub6 SDL, Sub6 TDD Wi-Fi 7 (802.11be)
Gorilla Glass version	Gorilla Glass Armor 2	Mobile network generation *	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
Display resolution *	3120 x 1440 pixels	SIM card type *	
Display number of colours	16 million colours	3G standards *	
Maximum refresh rate	120 Hz	4G standard *	✓
Display brightness	1500 cd/m²	5G standard *	6.0 Tri-band 1900,2100,850,900 MHz
Maximum display brightness (HDR)	2600 cd/m²	Top Wi-Fi standard *	2100,2600,700,800,900,1900,1500,1800,850,2300,2500 MHz
Pixel density	499 ppi	Wi-Fi standards	700,900,2100,1900,800,1800,850,2600,2300,2500,3700,3500
Brand specific technologies	Always-on display	Bluetooth *	,1500 MHz
Processor		Bluetooth version	✓ ✓
Processor family *	Snapdragon	Frequency band	
Processor model *	8 Elite Gen 5	3G bands supported	
Processor cores	8	4G bands supported	
Processor boost frequency	4.74 GHz	5G bands supported	
Neural processor unit (NPU)	Qualcomm Hexagon	Wi-Fi Direct	
Storage		MIMO	
RAM capacity *	12 GB	Modulation	4096-QAM
Internal storage capacity *	256 GB	Ports & interfaces	
Compatible memory cards *	Not supported	USB connector type	USB Type-C
Camera		USB version	3.2 Gen 1 (3.1 Gen 1)
Rear camera sensor size	1/1.3"	Headphone connectivity	USB Type-C
Second rear camera sensor size	1/2.52"	Messaging	
Third rear camera sensor size	1/2.52"	Short Message Service (SMS)	✓
Rear camera resolution (numeric)	200 MP	E-mail	✓
Second rear camera resolution (numeric)	50 MP	Navigation	
Third rear camera resolution (numeric)	50 MP	GPS (satellite)	✓
Fourth rear camera resolution (numeric)	10 MP	GLONASS	✓
Rear camera aperture number	1.4	BeiDou	✓
Second rear camera aperture number	1.9	Galileo	✓
Third rear camera aperture number	2.9	Quasi-Zenith Satellite System (QZSS)	✓
Fourth rear camera aperture number		Position location *	✓
Rear camera pixel size	2.4	Design	
	0.6 µm	Form factor *	Bar
		Product colour *	Black

MacBook Air (M5)



Date introduced
March 3, 2026



This report includes data current as of product launch. Product evaluations are based on U.S. configuration of MacBook Air (M5). Product carbon footprint calculations include in-box accessories as well as packaging.

55% recycled content
in MacBook Air (M5)¹

50% of manufacturing electricity
is sourced from supplier
renewable energy projects²

100% recycled cobalt
and 95% recycled lithium in the battery

Product Insights

Water

Water is a local resource. For this reason, our water strategy is respectful of local conditions where we and our suppliers operate. We collect and analyze data and site-level feedback to make sure we understand our water impacts.

Our Supplier Clean Water program prioritizes high water users in high water stress locations and drives participants to an average 50 percent water reuse rate by 2030.

[Learn more >](#)



Safer Cleaners

All final assembly supplier sites are required to use safer cleaners and degreasers in their manufacturing processes, as determined by methodologies like ChemFORWARD, US EPA Safer Choice, or GreenScreen[®].⁶

Learn more about the requirements in our [Regulated Substances Specification](#).



Energy Efficiency

MacBook Air (M5) uses at least 55 percent less energy than the ENERGY STAR standard.⁷

55%



Package and Ship

The packaging is 100 percent fiber-based and uses only recycled or responsibly sourced fibers.⁴

Fiber-based
packaging⁴



Longevity

We assessed MacBook Air (M5) in our Reliability Testing Lab using rigorous testing methods that simulate customers' experiences. [Learn more >](#)

We're continuously striving to increase product longevity through new design and manufacturing technologies, ongoing software support, and expanded access to repair services. [See repair options >](#)

Smarter Chemistry

All of the materials used in Apple products, accessories, and packaging are covered by our [Regulated Substances Specification](#), one of the first in the industry to set out clear requirements for manufacturers to manage or restrict key substances of concern. Apple continues to stand out from our industry peers through other substance restrictions and initiatives:

- Our Full Material Disclosure (FMD) program, which allows us to collect material and chemical data deep into our supply chain to support Apple initiatives and compliance
- Routine and robust toxicological assessments of all materials in prolonged skin contact to help minimize risk to customers under normal use conditions
- NGO partnerships to advance safer alternatives, including the identification of substitutes and improved access to chemical hazard data

To learn more, read [A Protocol for Prioritizing Chemicals of Concern in the Electronics Industry](#) and [Integrating Toxicological Assessments in Material Selection for Apple Products](#).



Zero Waste to Landfill



People and Environment in Our Supply Chain

We require our suppliers to provide safe and healthy workplaces where people are treated with dignity and respect, and to reduce their environmental impact. From the strong foundation set by our Supplier Code of Conduct, we go further—from helping suppliers transition to clean electricity, to providing educational opportunities for their employees, to supporting final assembly suppliers in reducing waste.

For more information, see apple.com/supply-chain.



Specifications.

The New X7.



Technical Data	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Acceleration 0-100 km/h in sec	5,9	5,8
BMW TwinPower Turbo inline 6-cylinder engine	Diesel	Petrol
Capacity in ccm	2,993	2,998
Cylinders/Valves	6/4	6/4
Max. Engine Output in kW(hp) at 1/min ^a	250(340)/4400	280(381)/5200-6250
Max. Engine Torque in Nm at 1/min ^a	700/ 1750-2250	520/ 1850-5000
48V Electric Motor	■	■
Max. Electric Motor Output in kW(hp)	9(12)	9(12)
Max. Electric Motor Torque in Nm	200	200
8-Speed Steptronic	■	■
8-Speed Steptronic Sport Transmission, including gearshift paddles on the steering wheel	■	■
xDrive - Intelligent 4WD with variable torque distribution	■	■
Servotronic Steering Assist	■	■
Cruise Control with braking function	■	■
BMW Driving Experience Switch (Modes: ECO PRO, COMFORT, SPORT and ADAPTIVE)	■	■
Launch Control Function	■	■
Adaptive 2-axle Air Suspension	■	■
Integrated Brake System	■	■
Remote engine start	■	■
	-	
M Sport Package Exterior equipment	X7 xDrive40d M Sport	X7 xDrive40i M Sport
- M Aerodynamics package with front apron, side skirts and wheel arch trims in body colour		
- M designation on the sides		
- M Sport brake with blue painted brake callipers with M designation		
- Specific design elements in Black Chrome and Dark Shadow metallic		
- Tailpipe trim strip in M Sport package specific geometry	■	■
Interior equipment		
- Door sill finishers with M designation		
- Individual Extended Leather Trim 'Merino'		
- M Leather steering wheel		
- BMW Individual Headliner Alcantara Anthracite		
- Vehicle key with exclusive M lettering		
Comfort Access System	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Electric operation of split tailgate	■	■
BMW Split LED Headlights with	■	■
- Separate structure for Daytime Running Lights and LED Headlight cluster		
- Fully Adaptive LED Headlights	■	■
- Fully Integrated High Beam Assistant		
LED Rear Lights		
LED Fog Lights	■	■
Rain sensor and automatic driving lights	■	■
Sun Protection Glazing	■	■
Aluminium Running Board	■	■
Ambient Light Package with:	■	■
- 15 pre-defined selectable light designs		
- X7 illuminated trim element on dashboard, customizable with ambient light setting		
- Welcome Light Carpet	■	■
Exterior mirrors, electrically adjustable and heated, electrically foldable with automatic		
anti-dazzle function (driver's side) and parking function for passenger side exterior mirror		
Automatic operation of tailgate	■	■
Two-part tailgate		
Panorama 3-part glass roof	■	■
Panorama glass roof Sky Lounge, with a light graphic composed of over 15,000 lighting elements	■	■
BMW Individual High-Gloss Shadow Line	■	■
BMW Individual roof rails High-Gloss Shadow Line		
Soft-Close function for doors	■	■
	■	■
	■	■
Automatic air conditioning with 5-zone control, with individualised climate control for front driver and passenger, rear left and right passengers including two additional air-vents in the B-pillars and 3rd row passengers	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Instrument panel in Sensatec		■
Comfort seats front, fully electrically adjustable with lumbar support for driver and front passenger	■	■
2 cupholders in front centre console	■	
2 cupholders in centre armrest in rear / rear end of centre console for 2nd seat row and integrated in armrest for 3rd seat row	■	■
Floor mats in Velour	■	■
Glass application 'CraftedClarity' for interior elements	■	■
Interior rear-view mirror with automatic anti-dazzle function	■	■
Comfort cushion made of alcantara for 2nd row outer seats	■	■
6 Seater 2 comfort seats with armrest for passengers in the 2nd seat row	■	■
3rd Row seats fully foldable into floor of luggage compartment and dividable by 50:50	■	■
M Leather steering wheel including multifunction buttons, an M badge, steering wheel rim in leather 'Walknappa' Black with black stitching and contoured thumb rests	■	■
Electrically operated roller sunblind for the rear side windows		
Seat adjustment electrical and memory function for driver and front passenger	■	■
Active seat ventilation for driver and front passenger		
Seat heating for driver and front passenger	■	■
Power socket (12 V) 1 x centre console front, centre console rear, luggage compartment on right	■	■
Acoustic glazing in the front side windows and the windscreen	■	■
- Effective reduction of noise level in the interior	■	■
- Less noise in the interior created by wind and engine	■	■
- A comfortably peaceful ambience		
	■	■

BMW ConnectedDrive	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Wireless Smartphone Integration	■	■
BMW Gesture Control	■	■
BMW Head-Up Display	■	■
Bluetooth with audio streaming, handsfree and USB connectivity	■	■
BMW Connected Package Professional - Teleservices - Intelligent E-call - Remote software upgrade - MyBMW App with Remote Services - Intelligent Personal Assistant	■	■
BMW Live Cockpit Professional - Widescreen Curved Display - Fully Digital 12.3" Instrument Display - High-resolution (1920x720 pixels) 14.9" Control Display - BMW Operating System 8.0 with variable configurable widgets - Navigation Function with 3D maps - Touch Functionality - iDrive Controller - Voice Control	■	■
Augmented View in touch display	■	■
Harman Kardon Surround Sound system (464 W, 16 speakers)	■	■
Park Distance Control (PDC), front and rear	■	■
Parking Assistant Professional including - Surround View Camera - Reversing Assistant - Remote 3D View - Fully Remote Parking via smartphone	■	■
Rear-View Camera	■	■
Drive Recorder	■	■
Anti-Theft Recorder	■	■
Surround view cameras with 360 degree view including top view, panorama view and 3D view	■	■
BMW EfficientDynamics	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Automatic Start/Stop function	■	■
Adaptive air flap control	■	■
Intelligent Light Weight Construction with 50:50 load distribution	■	■
Brake Energy Regeneration	■	■
CO Emission g/km ⁹	185	210
Fuel Economy km/L ⁹	14.31	11.29
Safety Features	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Active Park Distance Control (PDC)	■	■
Airbags: - Airbags for driver and front passenger - Head airbags for 1st and 2nd seat row - Side airbags for driver and front passenger - Knee airbag	■	■
Anti-Lock Braking System (ABS) with Brake Assist and Automatic Differential Brake (ADB-X)	■	■
Active Protection with Attentiveness Assistant	■	■
BMW Condition Based Service (Intelligent maintenance system)	■	■
Cornering Brake Control (CBC) and Dynamic Brake Control (DBC)	■	■
Dynamic Stability Control (DSC) including Dynamic Traction Control (DTC)	■	■
Electric Parking Brake with auto hold function	■	■
Hill Descent Control	■	■
ISOFIX child seat mounting, rear outward seats 2nd seat row and 3rd seat row	■	■
Side-impact protection	■	■
Three-point seat belts at all seats, including pyrotechnic belt tensioners and belt force limiters in the front	■	■
Tyre pressure indicator	■	■
Warning triangle with first-aid kit	■	■
Crash Sensor and Dynamic Braking Lights	■	■
Integrated Emergency Spare Wheel	■	■
M Sport Brake	■	■
Fine-wood trim 'Fineline' Black with metal effect High-Gloss	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Exterior Colours⁸	■	■
Mineral White (Metallic)	X7 xDrive40d M Sport	X7 xDrive40i M Sport
BMW Individual Paintwork Dravitz Grey (Metallic)	■	■
BMW Individual Paintwork Tanzanite Blue (Metallic)	■	■
Carbon Black (Metallic)	■	■
	■	■
BMW Individual Extended Leather Trim Merino Ivory White	■	■
BMW Individual Extended Leather Trim Merino Tartufo	X7 xDrive40d M Sport	X7 xDrive40i M Sport
BMW Individual Extended Leather Trim Merino Black	■	■
	■	■
	■	■
53.34 cm (21") M light alloy wheels Double-spoke style 754 M Bicolour Orbit Grey gloss-lathed, (9.5J x 21 with 285/45 R21 tyres)	X7 xDrive40d M Sport	X7 xDrive40i M Sport
	■	■
Maintenance packages^c (inclusive of taxes)	X7 xDrive40d M Sport	X7 xDrive40i M Sport
Service Inclusive Basic 3 Years / 40,000 KMs	¹ 18 236	¹ 96 760
Service Inclusive Plus 3 Years / 40,000 KMs	¹ 2 23 846	¹ 82 782
Repair Inclusive 3 rd Year / No Mileage limit	¹ 53 046	¹ 53 046

■ Standard equipment – Not available

Notes: ^a Performance data as measured in the emission test done under controlled conditions of environment, driving cycle, fuel, etc. as specified in Rule 115 of Central Motor Vehicle Rules, 1989. Performance data measured on the test under controlled conditions of environment, fuel, etc. as per Central Motor Vehicle Rules, 1989.

^b Terms and Conditions apply. For further information please refer to the product brochure or contact your local Authorised BMW Dealer.

Available as optional equipment. Price is inclusive of GST (as applicable). For detailed Terms & Conditions, scope of services (inclusions & exclusions) and coverage duration (in years) & mileage (in kilometers), please refer to BSI brochure and/or contact your Authorised BMW Dealer. Package prices are applicable only for one month from Warranty Start Date. Compliance under Legal Metrology Act.

^d The models, equipment and possible vehicle configurations illustrated in this specification sheet may differ from vehicles supplied in the Indian market.

* For available colour and upholstery combinations, please check with your local Authorised BMW Dealer.

Please visit www.bmw.in for more information.