



**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY



# SAKSHIN

MONTHLY NEWSLETTER OF DEPARTMENTS OF  
CSE | CSE(AI) | CSE(DS) | MCA

## VISION

Nurturing globally competent Computer Science and Engineering graduates capable of taking challenges in the Industry and Research & Development activities

## MISSION

Imparting quality education to meet the needs of industry, and to achieve excellence in teaching and learning

Inculcating value-based, socially committed professionalism for development of society

Providing support to promote quality research

## ABOUT ASIET

Adi Shankara Institute of Engineering & Technology (ASIET) was established in Kalady with the goal of providing technical education that instills in students both professional excellence and strong ethical values. The institute is run by the Adi Shankara Trust, a well-respected educational organization that has been active for over 50 years.

Founded in 2001 and maintained by the Sringeri Mutt with the benign blessings of His Holiness Sri Sri Bharathi Tirtha Mahaswamiji, the college is dedicated to promoting the overall growth and development of its students.

ASIET is situated in a beautiful and inspiring location, reminiscent of the peaceful presence of Jagadguru Adi Shankaracharya. The college is affiliated with the A P J Abdul Kalam Technological University in Kerala, and is approved by the AICTE. It offers undergraduate, graduate, and PhD level courses, with four of its programs being NBA accredited (CSE, ECE, EEE & MECH) demonstrating its commitment to high-quality education.





## "AAKASHIEN" AS A TRUST

On November 1st, 2023, a significant milestone was achieved by the ASIET (Adi Shankara Institute of Engineering and Technology) alumni community. The revered alumni group known as "AAKASHIEN" attained official registration status as a trust, marking a momentous achievement in the institution's history. This accomplishment stands as a testament to the dedication and concerted efforts of numerous individuals who worked tirelessly to bring this vision to fruition.

The formation of AAKASHIEN as a registered trust symbolizes a new phase in the institution's commitment to fostering enduring relationships with its alumni. It signifies the collective aspiration to provide a platform that goes beyond mere affiliation, aiming to create an environment conducive to continual growth, collaboration, and skill development for alumni members.

The announcement made to the ASIET community expresses heartfelt gratitude to all those individuals who contributed fervently, acknowledging their unwavering commitment that facilitated the establishment of AAKASHIEN as a trust. The commitment and passion displayed by these contributors played a pivotal role in making this significant achievement possible.

The transition of AAKASHIEN into a registered trust signifies a strategic move to amplify efforts in providing alumni with enriched opportunities for engagement and networking. The trust aims to foster an open forum where alumni can freely exchange knowledge, share experiences, and leverage each other's expertise. This platform is envisioned as a catalyst for enhancing the professional journeys of alumni, adding substantial value to their careers through collaborative learning and mutual support.

The announcement hints at the promising future that lies ahead for the ASIET alumni network. It promises forthcoming initiatives and programs that will offer alumni members opportunities for growth and engagement. The alumni are encouraged to maintain their connections to stay updated on the upcoming endeavors facilitated by AAKASHIEN, reinforcing the commitment to unity and collective inspiration within the ASIET alumni community.





# AAKASHIEN



Adi Shankara Institute of Engineering and Technology



ALUMNI REGISTRATION ON  
01/11/2023





# GAME DEVELOPMENT CLUB INAUGURATION

NOV  
23

## Launch

### ASIET Launches Official Gaming Community: A New Era of Gaming Begins

On November 1st, 2023, ASIET marked a significant milestone with the official launch of its Game Development Club (GDC) and gaming community. The inaugural ceremony, held in the Auditorium, was graced by the presence of dignitaries including the Principal and Heads of various departments, showcasing the institution's commitment to fostering a vibrant gaming environment.

Driven by the objective to enhance gaming skills and empower creative visions, the GDC aims to provide a supportive platform for aspiring game developers and enthusiasts. The event began at 10:30 am with a melodious prayer song, followed by a welcoming address by Tom, the Campus Lead of GDC. As the ceremony commenced, the ceremonial lighting of the lamp added a touch of tradition and symbolism.

The Principal's inaugural address highlighted the growing significance of gaming in the modern world, emphasizing its potential as a creative outlet and a career path. The unveiling of the GDC's official emblem marked a pivotal moment, signifying the club's official establishment and its promise of future endeavors.

Esteemed guests, including faculty members and industry experts, shared their insights and perspectives on the unique aspects of gaming, providing valuable knowledge and inspiration to the attendees. The introduction of the dedicated executive committee members highlighted the strong foundation upon which the GDC is built, recognizing their crucial role in driving the club's success.

The program concluded gracefully with a vote of thanks delivered by Teena George, Assistant Professor of the CSE Department. Refreshments were served as the attendees dispersed, carrying with them the enthusiasm and excitement for the journey ahead.

The GDC launch was a resounding success, a testament to the dedication of the organizing team and the unwavering support of the ASIET community. It effectively established the club's goals and aspirations, hinting at future achievements and growth within the gaming realm. As the GDC sets the stage for further developments, it promises to unlock a new era of gaming within the ASIET community, providing a platform for creativity, collaboration, and success.



# GAME DEVELOPMENT CLUB INAUGURATION

NOV  
23





Date: 15-11-2023

Time: 9:30 AM - 12:40 PM

Location: Seminar Hall, Adi Shankara Institute of Engineering and Technology

The meeting commenced promptly at 9:30 AM with a strong presence of 86 enthusiastic students.

Execom Members of Model Engineering College (MEC) were present:

1. Amal Shine - Chairperson, GDC
2. Abhijith Vineesh - Vice Chairperson, GDC
3. T A Asma - Campus Lead, GDC MEC
4. Hridhya KP - Event Lead, GDC MEC
5. Joel Chackochan - Execom and Outreach, GDC MEC
6. Ashlin Lawrence - Outreach, GDC MEC
7. Jayanth - Execom, GDC MEC

Akshara Balan, Campus Co-Lead of GDC, ASIET, initiated the meeting with a warm welcome speech.

The Execom members of Model Engineering College (MEC) played a pivotal role. Vice Chairperson Abhijith Vineesh captivated the audience with an engaging class, introducing the Game Development Club and delving into the intricate Maze-x project, which concluded by 12:10 PM.

Merin Johnny from S3 CS-AI provided feedback on the class followed by the expression of gratitude from Arun Nand B.S, Program Lead, GDC ASIET. Post session activities involved an extensive meeting between the

Execom Members of both institutions. Detailed information regarding GDC's structure, roles of leads, and monitoring members were shared, fostering a comprehensive understanding.





The pivotal moment of the gathering was the formalization of an agreement between GDC ASIET and GDC MEC. An official sanction agreement was presented and signed, cementing the collaboration and mutual commitment between the two entities. The agreement signing concluded at 12:40 PM, marking a successful and productive joint session. This gathering not only facilitated knowledge sharing but also solidified the collaborative relationship between Game Development Clubs, promising exciting future endeavors.





# SUYATI FELICITATION

NOV  
23

On November 9, 2023, at 11:30 AM, the Main Seminar Hall hosted the certificate distribution ceremony for the previous group of students who successfully completed their internship at Suyati Technologies Pvt. Ltd.

Certificates were distributed to 16 students from various departments by dignitaries including Mr. Vinod Kumar, Head of Administration at Suyati Technologies Pvt. Ltd., Principal Dr. S Sreepriya, and Professors R Rajaram and Dr. Bipin P. R.

This ceremony marked a significant milestone for the students and served as a testament to their hard work and dedication during their internship. The presence of esteemed guests from Suyati Technologies further highlighted the importance of the program and the valuable learning opportunities it provides.







# SUYATI FELICITATION

NOV  
23





# SUYATI FELICITATION

NOV  
23





# SUYATI INTERNSHIP SELECTION 2021-2025 BATCH

NOV  
23



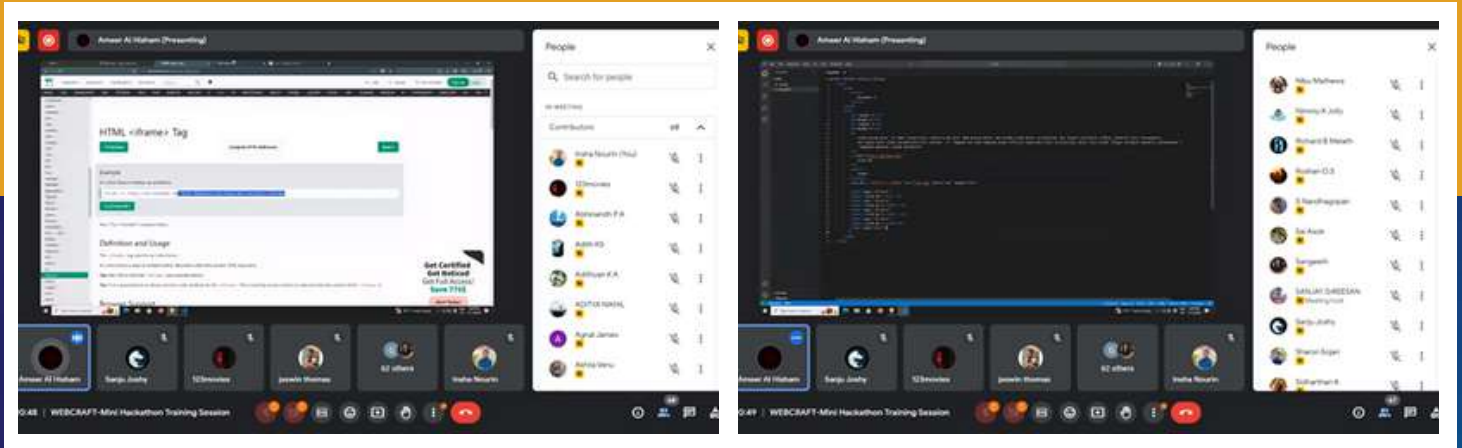
## CONGRATULATIONS

2021-2025 BATCH STUDENTS SELECTED FOR INTERNSHIP



## Online Sessions

The online session was conducted by Ameer Al Hisham, a mentor of TinkerHub foundation. Ameer helped the students gain a strong foundation on the basics of front end web development and made them aware of the trending technologies in the same field.



## Offline Mini-Hackathon

The offline session was a Mini-Hackathon planned for the participants to work in teams of two on a set of problem statements. The team with the most innovative and real-time solution was awarded the winner tag.

The Hackathon was conducted on 18th November 2023. There were 4 problem statements given to the participants, out of which they could choose any one and work on its solution. The day dawned with the official launch of the CSI SB ASIET logo for the academic year 2023-24. The prestigious ceremony took place in the Seminar Hall, graced by the esteemed presence of Dr. Sreepriya S, Principal of ASIET, Prof. Manesh T, HoD of CSE, Dr. Sreekrishnan, HoD of MCA, Prof. Aneesh, HoD of CE, and faculty members from MCA and CSE and CSE-AI departments.

The event commenced with a welcoming address by Sanjay Gireesan, Campus Lead of CSI SB ASIET, followed by an insightful speech by Dr. Sreepriya S, Principal of ASIET. The logo was unveiled by Dr. Sreekrishnan, HoD of MCA, after a motivating exhortation to the participants.

The ceremony also recognized the winners of Exposito Fiesta, awarding them certificates and cash prizes. Abhinand K Prasad and Anabel George of S5 CSE-A secured first place, while Harsh R Nair and Sooraj S secured second place. Dr. Sreepriya S and Prof. Manesh T bestowed the certificates upon the winners.



NOV  
23

# Offline Mini-Hackathon-Inauguration





Following the logo launch, participants eagerly moved to the CCF labs for registration of the anticipated Mini-Hackathon.

Over 100 students from Adi Shankara Institute of Engineering and Technology (ASIET), Cochin University of Science and Technology (CUSAT), and Viswajyothi College of Engineering and Technology (VJCET) were welcomed with swag bags and an opportunity to connect with fellow participants.

The day buzzed with activity as students exchanged ideas, learned from each other, and collaborated to build their innovative projects. Refreshments were provided at 11 am, followed by lunch at 1 pm, fueling the participants' continued efforts.

By 3 pm, the judging panel commenced their rigorous evaluation of each project, meticulously assessing their creativity, implementation, and overall impact.

Finally, at 4 pm, the much-awaited moment arrived. The winners were announced, with their accomplishments celebrated by the entire community:

**1st Prize:**

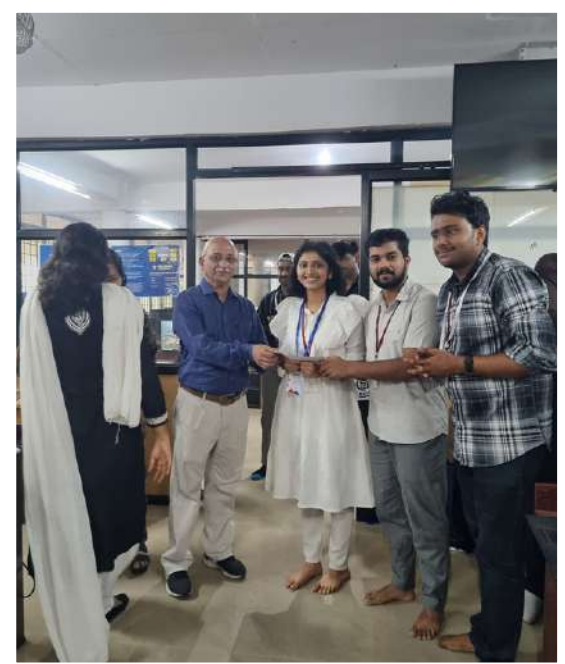
- Dyna Joshy (ASIET, Kalady)
- Sreeraj Rajeev (ASIET, Kalady)

**2nd Prize:**

- Jaison T Paulose (ASIET, Kalady)
- Anna Poly (ASIET, Kalady)

**3rd Prize:**

- Amal Mathew (ASIET, Kalady)
- Harikrishnan H (ASIET, Kalady)





# CSE ASSOCIATION INAUGURATION

NOV  
23

Date : 21/11/23  
Venue : Auditorium  
Duration : 45 min  
Audience : 100



The event commenced with an auspicious lighting of the lamp, symbolizing the enlightenment and knowledge that the CSE Association aims to bring to its members. This was followed by a warm welcome address by U Hari Krishnan Chairman CSE Association], expressing gratitude to all the dignitaries, faculty members, and students for their presence. The primary objectives of the CSE Association were outlined, emphasizing its commitment to fostering a collaborative and innovative learning environment.

The association aims to:

- **Promote Academic Excellence:** Facilitate an atmosphere that encourages academic achievements and excellence in the field of Computer Science and Engineering.
- **Professional Development:** Provide opportunities for students to enhance their skills, network with industry professionals, and stay updated on the latest technological trends.
- **Community Building:** Foster a sense of community and collaboration among CSE students, creating a supportive network that extends beyond the classroom.

The Presidential address was delivered by Prof Manesh T HOD CSE , who shared valuable insights into the ever-evolving field of computer science and the importance of student associations in shaping the future of aspiring engineers. The Presidential address was followed by the inaugural address by Dr. Sreepriya S, Principal ASIET. The speech served as an inspiration to the students , motivating them to strive for excellence in their academic and professional pursuits. The Keynote address was given by Prof Rajaram, Dean Projects and Consultancy and Prof Rajaraman HOD CSE(AI).

A symbolic moment of the event was the unveiling of the CSE Association **EXCECOM** that was unveiled by Gayathri Devanand, Vice Chairperson CSE Association. She also touched upon the exciting plans and initiatives that the CSE Association has in store for the upcoming academic year. These include workshops, seminars, hackathons, and industry collaborations, all aimed at providing students with a holistic learning experience.

The event concluded with a heartfelt vote of thanks by Gouri J Shenoj, expressing gratitude to everyone who contributed to the success of the inauguration ceremony. In conclusion, the inauguration of the CSE Association marks the beginning of a journey towards academic excellence, professional development , and community building. We look forward to a year filled with learning, collaboration, and innovation.

After the Inauguration there was a talk session by Mr Akhilesh K S, L&D Specialist on the importance and future scope of AR/VR. The session provided an overview of the fundamental concepts, current trends, and the potential impact of AR/VR on various industries. Participants gained a solid foundation, laying the groundwork for the subsequent discussions on job opportunities.



# CSE ASSOCIATION INAUGURATION

NOV  
23

A detailed exploration of specific job roles within the AR/VR sector was a key focus of the talk. Industry recruiters and human resources professionals highlighted the diverse career paths available, ranging from AR/VR developers and designers to project managers and quality assurance specialists. Emphasis was placed on the technical and soft skills essential for success in these roles. Practical advice on building a successful career in AR/VR was provided in this session. The speaker discussed strategies for professional development, networking, and continuous learning. Attendees learned about certifications, workshops, and online courses that can enhance their skills and make them more competitive in the job market. The AR/VR Job Opportunities talk provided a comprehensive understanding of the dynamic landscape of AR/VR and its vast potential for career growth. Participants left the webinar equipped with knowledge about industry trends, specific job roles, and strategies for building a successful career in this exciting field.







# CSE ASSOCIATION EXECOM MEMBERS

NOV  
23

## CSE ASSOCIATION



U HARIKRISHNAN  
CHAIRPERSON



GAYATHRI DEVANAN  
VICE-CHAIRPERSON



CYRIL C KURIAN



VYSHNAVI C.V

## CSE ASSOCIATION

### TREASURERS



AJAI BINO



ROHAN JOSEPH

### EVENT COORDINATOR



KARTHIK R KRISHNAN

## CSE ASSOCIATION

### YEAR REPRESENTATIVES



REEPRASAD. L.S



MERITTA JOY



GOURI J SHEN



MANUEL



AJISHNA



ELSWIN.P.ELDH



AMMED FARIS M.N



ANAMIKA UMESH



JERIN GEORGE

## ACTION PLAN (2023-2024)



Sno	EVENT NAME	DATES
1	Hackathon	21-11-2023
2	Coding Competition	*Feb 1st week
3	Dextra	*Feb Last week
4	Workshop on Hardware	*March
5	Tech Quiz(online)	*March
6	AR\VR workshop	*March
7	Project Expo	*April
8	Social Awareness	*April



# CSE ASSOCIATION

## AR VR Hackathon

NOV  
23

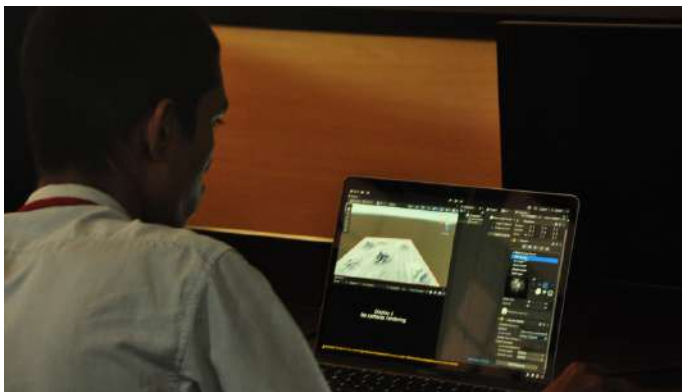
Date : 21/11/23 , Venue : CCF Lab, Duration : 6 hrs  
Audience : S3 CSE-CSE AI Students

The AR/VR Hackathon, held on 21/11/23, brought together good participants from diverse backgrounds, including developers, designers and beginners. Sponsored by Tiltedu labs, the event aimed to foster innovation in augmented and virtual reality technologies. This report outlines the key activities, projects, and outcomes of the hackathon. The AR/VR Hackathon, organized by CSE association, was designed to encourage collaboration and creativity in the rapidly evolving field of AR and VR. The event took place at the CCF lab. Participants were challenged to address specific themes and showcase their skills in developing immersive experiences



The Participants were given problem statements a day before and were divided into groups and were asked to prepare the necessary solutions for the problems in the form of a ppt presentation describing how they would solve that problem. Around 26 teams participated in this event. The judges from TiltEdu, felt very difficult to find the winners from these teams.

In conclusion, the AR/VR Hackathon was a resounding success, showcasing the talent and creativity within the AR/VR community. The event not only provided a platform for innovation but also fostered a sense of community and collaboration among participants.





## AR VR Hackathon-Winners of Ideation

# CONGRATULATIONS

**Team: Quantum Forge (First Prize)**



**Team-Titans (Second Prize)**



**Team: Jack Boys (Third Prize)**

The announcement of AR Hackathon winners will be made in the next edition.



The CBSE Kalotsav 2023 held at Sarada Vidyalaya from 24th to 26th November 2023 served as a platform for students to exhibit their talents and innovations. Among the array of remarkable displays was Amal Mathew's CNC Pen Plotter, showcased as part of the CSE department's presentation. This exhibition highlighted the creativity and expertise within different departments, emphasizing the technical prowess and innovative spirit of the students.

**Amal Mathew**, a student from S5 CSE A, garnered attention for his creation—an assignment writing machine or CNC Pen Plotter. What made this invention stand out was the incorporation of an Artificial Neural Network (ANN), enabling the generation of handwritten text, a unique feature distinguishing it from conventional pen plotters. His project showcased not just technical proficiency but also an innovative approach to merging technology with practical applications.



The event at Sarada Vidyalaya was a pivotal platform for students like Amal to showcase their groundbreaking creations. The integration of an ANN into the pen plotter exemplifies the kind of innovation and sophistication encouraged within the CSE department. Moreover, this creation symbolizes the forward-thinking mindset and commitment to excellence nurtured among the students, aligning perfectly with the exhibition's spirit of celebrating ingenuity and academic brilliance.

The exhibition's significance lies not just in the display of projects but in the spotlight it sheds on the potential and capabilities of the participating students. Amal Mathew's CNC Pen Plotter, with its integrated ANN for generating handwritten text, exemplifies the level of technical advancement fostered within the educational institution. It underscores how platforms like the CBSE Kalotsav 2023 serve as catalysts for students to showcase their talents and technological innovations, reiterating the institution's dedication to fostering a culture of creativity and academic excellence. The CBSE Kalotsav 2023 held at Sarada Vidyalaya from 24th to 26th November 2023 served as a platform for students to exhibit their talents and innovations. Among the array of remarkable displays was Amal Mathew's CNC Pen Plotter, showcased as part of the CSE department's presentation. This exhibition highlighted the creativity and expertise within different departments, emphasizing the technical prowess and innovative spirit of the students.

Amal Mathew, a student from S5 CSE A, garnered attention for his creation—an assignment writing machine or CNC Pen Plotter. What made this invention stand out was the incorporation of an Artificial Neural Network (ANN), enabling the generation of handwritten text, a unique feature distinguishing it from conventional pen plotters. His project showcased not just technical proficiency but also an innovative approach to merging technology with practical applications.



The event at Sarada Vidyalaya was a pivotal platform for students like Amal to showcase their groundbreaking creations. The integration of an ANN into the pen plotter exemplifies the kind of innovation and sophistication encouraged within the CSE department. Moreover, this creation symbolizes the forward-thinking mindset and commitment to excellence nurtured among the students, aligning perfectly with the exhibition's spirit of celebrating ingenuity and academic brilliance.

The exhibition's significance lies not just in the display of projects but in the spotlight it sheds on the potential and capabilities of the participating students. Amal Mathew's CNC Pen Plotter, with its integrated ANN for generating handwritten text, exemplifies the level of technical advancement fostered within the educational institution. It underscores how platforms like the CBSE Kalotsav 2023 serve as catalysts for students to showcase their talents and technological innovations, reiterating the institution's dedication to fostering a culture of creativity and academic excellence.



For more images,  
please scan the above



## November 1 : Celebrating Kerala Piravi and Union's inception

The inaugural program of the newly formed Student Union coincided auspiciously with November 1st, 2023, a date commemorating the birth of the captivating state of Kerala.

Enhancing the significance of this occasion, the college band delivered a captivating performance, celebrating both Kerala Piravi and the nascent union's inception.



## Nov 3 :

The department of Computer Science Engineering and Dept. of CSE(AI) in connection with SOEBIT Cybersecurity-Netherlands on Cybersecurity Service, arranged the webinar session "Career in Cyber Security, AI, ML, VLSI & Quantum Computing" on Nov 3rd, 2023. The session imparts the knowledge of cybersecurity, reasons to learn cybersecurity, VLSI Security, correlation between cybersecurity & VLSI, Machine Learning with Cybersecurity, Quantum Computing and Blockchain security. The session acquainted the students about the various career opportunities in the Field of Cyber security.

The resource persons are Mr. Soenil Soebedar (Founder, Cryptography Architect- SOEBIT Training, Netherlands), Mr. Vinni Kiran (IT Career mentor, Hyderabad), Ms. Priya Singh (Founder & CEO, Ishank Techno Service, Delhi) and Mr. Mukul Anand (Senior Staff Engineer, Delhi).

**SOEBIT CYBER SECURITY NETHERLANDS & ASIET PRESENTS**

**WEBINAR ON**  
**CAREER IN CYBERSECURITY, AI, ML, VLSI & QUANTUM COMPUTING**  
 EXPERTS

 <b>SOENIL SOEBEDAR</b> Founder SOEBIT Cybersecurity, Penetration Tester, Cryptography Architect Netherlands	 <b>VINNI KIRAN</b> IT Career mentor, Hyderabad - India	 <b>PRIYA SINGH</b> Founder & CEO Ishank Techno Services, Delhi - India	 <b>MUKUL ANAND</b> Senior Staff Engineer, Delhi - India
--	--	---	---

BELOW TOPICS WILL BE DISCUSSED IN THIS WEBINAR

- CYBERSECURITY FOUNDATION
- CYBERSECURITY & AI
- CYBERSECURITY & ML
- CYBERSECURITY & VLSI
- CYBERSECURITY & BLOCKCHAIN
- CYBERSECURITY & CRYPTOGRAPHY
- CYBERSECURITY & QUANTUM COMPUTING
- CAREER IN CYBERSECURITY

**3 NOV 2023, 2PM TILL 4 PM IST ONLINE ON WEBEX**  
 JOINTLY ORGANISED BY DEPARTMENT OF CSE AND DEPARTMENT OF CSE-AI





## November 4 : 'Keraleeyam'

"Keraleeyam," a seven-day celebration, served as a vibrant expression of our identity, encompassing the pride we hold in our heritage, the richness of our culture, and the aspirations we hold for the future. ASIET was privileged to participate in this momentous occasion, representing both our institution and the esteemed state of Kerala. It was a moment of immense pride for all involved.



## November 6, 2023

Siri Sridhar Chithyala graced our campus with a generous spirit, leaving an indelible mark of philanthropy. His benevolence extended to the realms of education as he donated ₹1,00,000 to enhance the robotics lab at Shri Sharadha Vidyalaya School, fostering innovation and technological advancement for the students. The impact of his generosity further rippled through the corridors of Adi Shankara Institute of Engineering and Technology, where a substantial ₹5 lakhs were contributed, fortifying the institution's pursuit of academic excellence.

During his visit, Siri Sridhar Chithyala demonstrated a genuine commitment to the academic community. Engaging with the primary labs across the campus, he shared valuable insights and recommendations, igniting a spark for improvement and innovation. His advice, rooted in experience, served as a guiding light for both educators and students, emphasizing the importance of collaboration with the industry.



Siri Sridhar Chithyala's visit not only left behind tangible contributions but also sowed seeds of inspiration and progress within our educational ecosystem. His commitment to education and technology will undoubtedly resonate, fostering an environment of continuous growth and collaboration in the pursuit of knowledge.



## Chairman and CEO of Adi Group, Sri. Sanjay Viswanathan, Engages in Collaborative Discourse at ASIET Campus

We were honored to welcome Sri. Sanjay Viswanathan, the distinguished Chairman and CEO of Adi Group, to the ASIET campus. His visit was marked by insightful discussions and potential avenues for collaboration in various realms.

During his visit, Sri. Sanjay Viswanathan held constructive meetings with Heads of Departments across various disciplines. The discussions delved into cutting-edge research trends, technological advancements, skill-based training initiatives for students, and the pivotal role of teachers in preparing students for the industry. He expressed his commitment to supporting student projects, internships, and other collaborative initiatives.

Furthermore, Sri. Sanjay Viswanathan explored multiple avenues for collaboration between ASIET and the Adi Group. His visit extended beyond administrative discussions as he took the time to tour various departments, engaging in conversations about the facilities and innovative projects in progress.

The Chairman and CEO also paid a visit to the Adi Shankara Technology Business Incubator (TBI), where he not only appreciated but also motivated several startup companies. Notably, discussions revolved around the potential collaboration in the manufacturing of Electric Vehicle (EV) charging infrastructure and related services.

Sri. Sanjay Viswanathan's visit was not only a gesture of goodwill but also a testament to the shared commitment to fostering innovation, skill development, and collaborative opportunities between ASIET and Adi Group. His insights and support are valuable assets in propelling our institution and its students towards new heights of excellence. This promising collaboration holds great promise for the future, and we eagerly anticipate the positive impact it will have on our academic and entrepreneurial endeavors.







17th Nov  
Literary club activity -Art of writing & Publishing Fiction



17th Nov Alumni Interactions

19-23 passouts interact with First Year students. They inspired and guided students on excelling in academics and securing promising placements.





## November 9 : Volleyball Championship 2023-24 (Women)

### ASIET Women's Volleyball Team Dominates KTU D-ZONE Championship!

Our women's volleyball team has achieved remarkable success in the KTU D-ZONE Inter Collegiate Volleyball Championship 2023-24. They secured a decisive victory in the semifinals against MA College, Kothamangalam, with a set score of 25-1 and 25-3. Their dominance continued in the finals, where they defeated FISAT with a score of 25-9 and 25-5, claiming the championship title. Congratulations to the team on their outstanding performance!

Semis: ASIET defeated MA College, Kothamangalam, 25-1 and 25-3.

Finals: ASIET defeated FISAT, 25-9 and 25-5.

## November 7 : KTU Badminton Team

A moment of victory for ASIET as Ann Rose Mannara of S1 EBE gets selected in the KTU Badminton Team.





## November 28: Victory for the Inter-university match at VIT, Vellore

### ASIET Volleyball Team Spikes Its Way to KTU Victory!

We are ecstatic to announce the triumphant journey of our ASIET Volleyball Team! Their unwavering dedication, teamwork, and passion on the court have propelled them to a remarkable victory, securing their place in the coveted KTU University Volleyball Team.

**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY

NEA COLLEGE CODE ASI

**SMASHING THEIR WAY TO SUCCESS!**

OUR SIXSOME HIT THEIR WAY TO THE KTU UNIVERSITY VOLLEYBALL TEAM... SETTING UP GOALS OF VICTORY FOR THE INTER-UNIVERSITY MATCH AT VIT, VELLORE.

Vidya Bharathi Nagar, Malloor road, Kalady, Ernakulam(Dist), Kerala 683574  
www.adishankara.ac.in

**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY

NEA COLLEGE CODE ASI

COMING TOGETHER,  
KEEPING TOGETHER & WORKING TOGETHER  
WE WIN - CHAMPIONS

APJ KTU VOLLEYBALL CHAMPIONSHIP 2023-24  
(WOMEN)

Vidya Bharathi Nagar, Malloor road, Kalady, Ernakulam(Dist), Kerala 683574  
www.adishankara.ac.in





Training program done for MCA Students by Prof.Sharika on State Government upskilling and ASIET branding activities



Sanjay Gireesan, an S7 CS B student, organized a Quiz named "Chakravyuha 2.0" to celebrate the launch of the Maths Club ASIET in collaboration with the BSH department of ASIET on November 22, 2023.





8 November 23  
First Year PTA Meeting



GPS Map Camera  
Kalady, Kerala, India  
Entrance way to ASIET, Mattoor, Kalady, Kerala 683574, India  
Lat 10.178283°  
Long 76.430143°  
08/11/23 10:47 AM GMT +05:30

NOV 15 2023  
ASAP training at ASIET (15-16 November 2023).



GPS Map Camera  
Kalady, Kerala, India  
0211+004, Entrance way to ASIET, Mattoor, Kalady, Kerala 683574, India  
Lat 10.178283°  
Long 76.430143°  
15/11/23 09:31 AM GMT +05:30

GPS Map Camera  
Kalady, Kerala, India  
0211+004, Entrance way to ASIET, Mattoor, Kalady, Kerala 683574, India  
Lat 10.178283°  
Long 76.430143°  
15/11/23 09:31 AM GMT +05:30

GPS Map Camera  
Kalady, Kerala, India  
0211+004, Entrance way to ASIET, Mattoor, Kalady, Kerala 683574, India  
Lat 10.178283°  
Long 76.430143°  
15/11/23 09:31 AM GMT +05:30





Prof. AJAY BASIL VARGHESE had been invited as one of the chief guests at Sahrdaya College of Engineering & Technology (SCET) on 25 November 2023, for the event where they partnered with NASSCOM Startups for the National Entrepreneurship Acceleration Programme, launching the transformative 'Productathon' on November 25, 2023 which focus on incubating AI-based student startups. This collaboration aims to turn innovative ideas into viable businesses. The eight-month 'Productathon' features workshops, mentorship sessions, Hackathons, and hands-on activities, providing students with a transformative journey through entrepreneurship complexities.





Prof. Ajay Basil Varghese was invited as a mentor for one day workshop on “Innovation to Incubation”, on 4 November 2023 by IEDC cell of St.Thomas Institute for Science and Technology, Trivandrum in association with ‘IIC Dept of ECE, CSE,EEE and ISTE’



**ST. THOMAS**  
INSTITUTE FOR SCIENCE AND TECHNOLOGY  
TRIVANDRUM

**WORKSHOP**  
“ INNOVATION TO INCUBATION ”

As part of National Entrepreneurship Day 2023

4/11/2023, Saturday  
9:00 AM to 4:00 PM  
Seminar Hall, STIST  
www.stistvm.edu.in

**Resource Person**  
Prof. Ajay Basil Varghese  
Startup Coach

Prof Ajay Basil Varghese was invited as a speaker for “STARTING A START UP”, an orientation program on entrepreneurship and building a startup by IEDC MITS, for S7 EEE students of Muthoot Institute of Engineering and Technology on 15 November 2023

**STARTUP LAUNCHPAD**  
Igniting Innovation, Empowering Entrepreneurs

Speaker:  
**AJAY BASIL VARGHESE**  
STARTUP COACH  
FOR S7 EEE STUDENTS

15TH NOV, WEDNESDAY  
9:00AM - 4:00 PM  
VISWESWARAYA HALL





Dr. Hari Narayanan A G, recently conducted two sessions at Nirmala College of Arts & Science, Chalakudy. The sessions, held on November 21 and 22, 2023, were part of ICT Academy's Front-end Application Development with React training program. Sincere gratitude to the ICT Academy and the Department of Computer Applications at Adi Shankara Institute of Engineering and Technology for providing the platform to conduct this Expert Session. The collaborative effort between institutions contributed significantly to the success of the event. The sessions covered crucial aspects, with the first day focusing on an "Overview of Node and Express," followed by an in-depth exploration of "Express API/CRUD" on the second day. The enthusiasm and active participation of the attendees reflected the dedication to excellence nurtured within your academic environment. We are grateful for the opportunity and look forward to future collaborations.







Prof. Sharika played a pivotal role as the resource person in an enlightening one-day workshop titled "CRYPTOLOGIC: DECIPHERING THE BASICS OF AI AND ENCRYPTION" held at the esteemed Indira Gandhi Institute of Polytechnic and Engineering on November 20, 2023. This workshop aimed to delve into the fundamental concepts of both Artificial Intelligence (AI) and Encryption, providing participants with a comprehensive understanding of their interplay.

**INDIRA GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

*Step to future*

**CRYPTOLOGIC WORKSHOP :  
DECIPHERING THE BASICS  
OF AI AND ENCRYPTION**

ORGANIZED BY:  
**QUBITS**  
(ASSOCIATION OF DEPT. OF COMPUTER SCIENCE AND ENGINEERING)

**MONDAY**  
20 November 2023

**TIME**  
09:30 am- 04:00 pm

**RESOURCE PERSON :**  
**Mrs. SHARIKA T R**  
ASSISTANT PROFESSOR,  
ADI SHANKARA INSTITUTE OF ENGINEERING  
AND TECHNOLOGY, KALADI

Nellikuzhi PO, Kothamangalam





From November 16th to 18th, 2023, a group of 16 students representing various departments of ASIET participated in the Huddle Global Summit 23 in Kovalam, Kerala. This IEDC Summit seamlessly integrates events across diverse domains such as technology, entrepreneurship, skill development, and more.

The summit serves as a comprehensive platform that brings together student innovators, industry leaders, and startups. Beyond being a series of events, it provides a unique opportunity for participants to connect, engage, and network, fostering connections that endure over a lifetime.





## 27 NOVEMBER 2023 : WORKSHOP ON WORLD STARTUP OPPORTUNITIES

The main key points discussed during the session is in today's global corporate environment, identifying innovation is a bit of a challenge. When it comes to defining innovation, appropriately framing and critically appraising society's requirements is crucial. Being able to come up with and apply new and useful ideas to specific problems. It is vital for the development of a society to translate them into solutions that bring value. Country. Innovative ideas can have a positive impact on societies in a variety of ways. Start-ups are newly formed business endeavors. Start-up innovation exemplifies the concept of taking chances. and obligations in order to create sustainable business models that match market demands. In addition, it comprises extensively evaluating an enterprise's prospective growth as well as uncovering opportunities that no one else sees coming. Given the rapid speed of technological disruption, It has become difficult and competitive to innovate, communicate fresh ideas, and bring them to life. The geographic scope of start-up activity and venture capital investment is rapidly expanding. As a result of globalization, communities are becoming more involved with one another in terms of information sharing.

Total no of Participants :80

**DiST** DE PAUL INSTITUTE OF SCIENCE & TECHNOLOGY  
 Affiliated to MG University | Accredited by NAAC with 'A' Grade | Approved by AICTE

**Innovation and Entrepreneurship Development Centre (IEDC)**

INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE

**WORKSHOP**

**"WORLD STARTUP AND ITS OPPORTUNITIES"**

Resource Person



**Eldhose P Sim**  
 IEDC Nodal Officer,  
 ASIET, Kalady

Seminar Hall, St Vincent Block  
 27.11.2023 | 10.30 AM

De Paul Nagar, Angamaly South- 683 573, Ernakulam, Keralam, India  
 Ph: +914842911800 | Website: www.depaul.edu.in  
 Email: mail@depaul.edu.in





## MAJOR EVENTS

**1.Asian mountain bike cycling championship:** 5 volunteers are selected by the tourism club,govt of kerala for the volunteering the bike cycling championship held at Ponmudi ,Trivandrum from 24th – 28th october.They handled the hospitality of foreign participants.

**2.Meri matti mera desh program:** Abhinav raj of S5 CSA has been Participated in meri matti mera desh program held at new delhi.it is a unity campaign where he carries soil from various regions representing Ernakulam

**3.Pre republic day parade camp:** Aparna prasad of s5 ECE has been participated in pre rd parade camp held at Tamil Nadu





**4. Blood donation camp:** Nss units of ASIET , Kalady along with IMA blood bank, ALUA, HDFC Bank, WBO cochin completed 71th blood donation camp.

**5. Unity run:** The unity run held as a part of unity day .It began from the college and ended at Mattoor, Kalady and ended with an oath taking ceremony.

**6. Aadhar Mela:** NSS units along with the postal department conducted an aadhar mela on 15th November to correct mistakes and also update the biometrics.

**7. National integration camp:** Ajin P D of S5 CSAI selected for national integration camp which is going to be held at Madurai Kamaraj University in the month of December.

**8. Awareness Class on World AIDS day:** As a part of world AIDS Day, NSS units along with red ribbon club conducted an awareness class focusing on the prevention and information regarding aids that was taken by Dr Lija divakaran, Assistant gynecologist of Govt. hospital Kalady ,they all took anti aids day prevention pledge



acted as Volunteers For Asian Mountain Bike Cycling Championship Ponmudi, Thiruvananthapuram





**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY



# Congratulations



AJIN PD  
S5 CS(AI)

SELECTED FOR NATIONAL INTEGRATION CAMP WHICH IS GOING TO BE HELD AT MADURA KAMARAJ UNIVERSITY IN THE MONTH OF DECEMBER.



IEEE SB ASIET and the Women Empowerment Cell ASIET joined forces to host a session on "She Well Being" on November 17, 2023.

The session was led by Dr. Saroj Menon, an in-house gynecologist, who shared valuable insights and information on women's health and well-being.

This event aimed to empower women and provide them with the knowledge and resources they need to take charge of their health.





# RESEARCH AND PUBLICATIONS CORNER

NOV  
23

Kudos to Prof. Rajaraman PV, CSAI HOD, on the publication of three indexed journals and one conference in the year 2023.

- 1. Crowd Social Distance Measurement and Mask Detection - Scopus Indexed - <https://doi.org/10.53555/sfs.v10i2S.316>. Journal of Survey in Fisheries Sciences. 2023.
- 2. Graph Sample and Aggregate Attention Network optimized with Barnacles Mating Algorithm based Sentiment Analysis for Online Product Recommendation - Applied Soft Computing (Elsevier \_ Science Direct) - Q1 Journal - SCI Indexed - Scopus Indexed - <https://doi.org/10.1016/j.asoc.2023.110532>. 2023.
- 3. Reliable cluster based data collection framework for IoT-big data healthcare applications - Journal of Intelligent & Fuzzy Systems - IOS Press - Q2 - SCI Indexed - Scopus Indexed. 2023. DOI: 10.3233/JIFS-233505 (Link:<https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs233505>)
- 4. Explainable AI for Medical Imaging: Advancing Transparency and Trust in Diagnostic Decision-Making. 4th International Conference on Innovations in Power and Advanced Computing Technologies. (i-PACT'23). Organized by Vellore Institute of Technology and UNIVERSITI MALAYA. IEEE Conference.. 2023.



Prof. Rajaraman P V  
HOD AI





# RESEARCH AND PUBLICATIONS CORNER

NOV  
23

Thankappan, M., Rifà-Pous, H., Garrigues, C. (2023). Multi-channel Man-in-the-Middle Attacks Against Protected Wi-Fi Networks and Their Attack Signatures. In: Mercier-Laurent, E., Fernando, X., Chandrabose, A. (eds) Computer, Communication, and Signal Processing. AI, Knowledge Engineering and IoT for Smart Systems. ICCSP 2023. IFIP Advances in Information and Communication Technology, vol 670. Springer, Cham. [https://doi.org/10.1007/978-3-031-39811-7\\_22](https://doi.org/10.1007/978-3-031-39811-7_22)



Prof. Manesh T  
HOD CSE

Sudhakar, K., Saravanan, D., Hariharan, G., Sanaj, M. S., Kumar, Santosh, Shaik, Maznu, Gonzales, Jose Luis Arias and Aurangzeb, Khursheed. "Optimised feature selection-driven convolutional neural network using gray level co-occurrence matrix for detection of cervical cancer" Open Life Sciences, vol. 18, no. 1, 2023, pp. 20220770. <https://doi.org/10.1515/biol-2022-0770>



Dr. Sanaj MS  
Associate Professor





## Skill Based Certification Courses

MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY GOVERNMENT OF INDIA

nasscom

Adi Shankara INSTITUTE OF ENGINEERING AND TECHNOLOGY

FACEIN TECHNOLOGIES

**CERTIFICATION PROGRAM IN  
CYBERSECURITY AND FORENSICS**

CERTIFIED BY NASSCOM

**50% Government Incentive**

**100% Placement Assistance**

Networking Essentials • Ethical Hacking • Python Programming  
System Administration • Cloud Security • Cyber Forensics

Lab Oriented Training • Global Certification • 100+ Learning Hours  
3500+ Hacking Tools • 519 Attack Techniques • Practicals With Industrial Tools

**Join Now : +91 6282391223**

info@facein.in | www.facein.in

- **Course Name:** Certification Program in Cybersecurity & Forensics
- **Certified by:** NASSCOM and Ministry of Electronics & Information Technology (Govt. of India)
- **Course Duration:** 100 Hours
- **Course Fee:** Rs. 13,600/-
- **Government Incentive:** 50% of the fee will be refunded by Govt. of India for the eligible candidates
- **Placement Support:** 100% Placement support will be provided by NASSCOM and FACEIN
- Interested candidates can register in the below link:
- <https://forms.gle/V8tg2Qa9CAZCQjy6>



## Skill Based Certification Courses

**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY

**FACEIN**  
TECHNOLOGIES

**STED**  
COUNCIL

### FULL STACK WEB DEVELOPMENT USING PHP

- Front End Development-HTML
- MVC Codegniter
- Server Handling
- Back End PHP
- Domian Purchasing
- SEO

- Affordable Fee
- Internship Certificate
- Industry Experienced Trainers
- Training on Real-Time Projects

**+91 6282391223**

**100% Placement Assurance**

info@facein.in | www.facein.in

- **Course Name:** Certification Program in PHP Full Stack Web Development
- **Certified by:** STED COUNCIL
- **Internship:** Internship certificate will be provided by FACEIN
- **Course Duration:** 100 Hours
- **Course Fee:** 12000/- plus GST
- **Note:** Students can pay the fee in four instalments.
- **Placement Support:** 100% Placement support will be provided by FACEIN
- **Interested candidates can register in the below link:**
- <https://forms.gle/pjFeh8RXhJzDn1P58>
- **Please click on the below link to view the brochures:**
- [https://drive.google.com/drive/folders/17WAlt1pIzVqhYmPnvq4gMZMjk-bjd6Z7?usp=drive\\_link](https://drive.google.com/drive/folders/17WAlt1pIzVqhYmPnvq4gMZMjk-bjd6Z7?usp=drive_link)



## Skill Based Certification Courses



**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY

**FACEIN**  
TECHNOLOGIES

**STED**

---

**FULL STACK  
WED DEVELOPMENT USING  
PYTHON**

---

▶ Html   ▶ Css   ▶ Django  
▶ MySQL   ▶ Javascript

---

- Affordable Fee
- Internship Certificate
- Training on Real-Time Projects
- 100% Placement Assurance

**+91 6282391223**

---

**info@facein.in | www.facein.in**

- **Course Name:** Certification Program in Python Full Stack Web Development
- **Certified by:** STED COUNCIL
- **Course Duration:** 100 Hours
- **Course Fee:** 12000/- plus GST
- **Note:** Students can pay the fee in four instalments.
- **Placement Support:** 100% Placement support will be provided by FACEIN
- **Interested candidates can register in the below link:**
- <https://forms.gle/pjFeh8RXhJzDn1P58>
- **Please click on the below link to view the brochures:**
- [https://drive.google.com/drive/folders/17WAlt1pIzVqhYmPnvq4gMzMjk-bjd6Z7?usp=drive\\_link](https://drive.google.com/drive/folders/17WAlt1pIzVqhYmPnvq4gMzMjk-bjd6Z7?usp=drive_link)



## Skill Based Certification Courses

 **Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY

 **FACEIN**  
TECHNOLOGIES

 **STED**  
COUNCIL

+91 6282391223

### DATA SCIENCE

- ✓ Introduction To Data Science
- ✓ Python packages
- ✓ Numpy
- ✓ Pandas
- ✓ Matplotlib
- ✓ Graphical User Interface



- Affordable Fee
- Internship Certificate
- Training on Real-Time Projects
- Industry Experienced Trainers

**100% Placement Assurance**

info@facein.in | www.facein.in

- **Course Name:** Certification Program in Data Science
- **Certified by:** STED COUNCIL
- **Course Duration:** 100 Hours
- **Course Fee:** 12000/- plus GST
- **Note:** Students can pay the fee in four instalments.
- **Placement Support:** 100% Placement support will be provided by FACEIN
- **Interested candidates can register in the below link:**
- <https://forms.gle/pjFeh8RXhJzDn1P58>
- **Please click on the below link to view the brochures:**
- [https://drive.google.com/drive/folders/17WAlt1pIzVqhYmPnvq4gMzMjk-bjd6Z7?usp=drive\\_link](https://drive.google.com/drive/folders/17WAlt1pIzVqhYmPnvq4gMzMjk-bjd6Z7?usp=drive_link)





## Top 5 Free Certification from IBM on Data Science are :

---

**IBM**  
**IBM Data Science**  
**Professional Certification**

Python free certification :

<https://cognitiveclass.ai/courses/python-for-data-science>

SQL Free Certification :

<https://cognitiveclass.ai/courses/learn-sql-relational-databases>

Machine Learning Certification :

<https://cognitiveclass.ai/courses/machine-learning-with-python>

Data Science Free Certification :

<https://cognitiveclass.ai/learn/data-science-with-python>

Data Analysis :

<https://cognitiveclass.ai/courses/course-v1:CognitiveClass+DA0101EN+v2>





# OUTSTANDING PERFORMANCE AWARDS-KTU EXAMS

NOV  
23



Aswath Salim  
S3 CSA



Amritha Sibi  
S3 CSA



Lakshmi Nadana R  
S3 CSB



Sona Deyo  
S3 CSC



LAKSHMI BALAN  
S3 AI



Fabiya Philomana M J  
S5 CS A



Safa R.H  
S5 CSB



# OUTSTANDING PERFORMANCE AWARDS-KTU EXAMS

NOV  
23



Joan Teresa Jose  
S5 CSAI



Geethu B  
S7 CS A



K K Haridev  
S7 CS B



Malu Mohan  
S7 CS AI







## The TCS National Qualifier Test (NQT)

The TCS National Qualifier Test (NQT) is a recruitment exam by India's largest IT firm, TCS. It's partnered with over 2700 companies across 23 domains in IT and non-IT sectors. Eligible candidates include final year students, pre-final year students, graduates from 2018 to 2022, and professionals with up to 2 years of experience. Various exam packages are available, with NQT IT specifically for IT professionals. A scorecard with a 2-year validity is provided. More information and registration for the NQT exam can be found [here] (<https://learning.icsionhub.in/hub/national-qualifier-test/>). The NQT is conducted every 2-4 weeks, and applications for the next TCS NQT are open until November 1st.

<https://learning.tcsionhub.in/hub/national-qualifier-test/>



## Infosys Test

Infosys conducts an online test as part of its recruitment process, which includes a technical interview and an HR interview. Eligible candidates for this process include those with qualifications such as B.E., B.Tech, M.Tech, and M.S.C. Backlogs are not allowed. The online test consists of sections like mathematics, analytical reasoning, verbal ability, coding, and puzzle-solving. The online test can be taken from the comfort of your home. Technical interviews, which include questions related to topics like C, C++, and data structures, are conducted in the final rounds.

<https://www.infosys.com/careers.html>

## Aspiring Minds Computer Adaptive Test

The "Aspiring Minds Computer Adaptive Test (AMCAT)" is an assessment test primarily used by entry-level job seekers to help various companies assess candidates. Many companies, such as SAP, Deloitte, ITC, Axis Bank, and Accenture, utilize AMCAT scores. It assesses skills in various areas, including communication skills, logical reasoning, and quantitative skills. An AMCAT score is valid for one year.

<https://www.myamcat.com/>





# POPULAR PLACEMENT EXAMINATIONS

## CoCubes

CoCubes is an employment evaluation conducted by businesses in the fields of IT products and services, knowledge processing, and outsourcing. It evaluates candidates in areas like computer proficiency, programming abilities, personality traits, aptitude, and technical skills. The resulting score remains valid for a year.

<https://cocubes.com/>



## E-Litmus

E-Litmus is one of the oldest recruitment tests in the field of IT recruitment examinations. It assesses candidates in areas such as problem-solving, reasoning, quantitative aptitude, verbal ability, and more. The score remains valid for two years. Companies like McCafe, IBM, Accenture, ITC InfoTech, HCL, Mindtree, and many others utilize these scores for their recruitment processes.

<https://www.elitmus.com/>

## Mettl Employability Test

Mettl Employability Test assesses communication skills, logical reasoning, quantitative aptitude, and technical skills. It is utilized by more than 700 companies for their recruitment processes, and the score remains valid for one year.

<https://mettl.com/>



## Corporate Employability Assessment Test

Corporate Employability Assessment Test conducted by Freshersworld, a leading job information portal. It assesses attributes like aptitude, technical skills, and communication skills. It covers areas such as C, C++, .Net, Java, Networking, PHP, and Software Testing when evaluating technical proficiency.

<https://www.freshersworld.com/ceat>



**Freshersworld**.com  
A TeamLease Company



- **UK to build new satellite to monitor climate crisis and natural disasters**

The UK will give £3 million for a new spacecraft in the £70 million Atlantic Constellation project with Spain and Portugal. This aims to create satellites for Earth monitoring. Open Cosmos from Oxfordshire will help fund it. Andrew Griffith, a minister, sees this as crucial for climate change, disaster relief, and supporting UK industries. He emphasizes collaboration for shared goals and economic growth through space technology.

- **Microsoft Office will now use AI to make meetings less painful**

Microsoft upgrades Copilot in Microsoft 365 at \$30/month. Copilot Studio integrates business software data. In Teams, it answers queries, records notes, and adjusts chat tones. It helps with Outlook meetings, PowerPoint slides, and formatting in Word/PowerPoint. These updates aim to increase Copilot's value and address pricing concerns, announced at Microsoft's Ignite conference.

Interest in AI efficiency tools rose after Microsoft-backed OpenAI launched ChatGPT. Adobe, Google, Salesforce, and others released similar AI-driven tools.

- **Cyber Monday forecast boosted after record online holiday sales**

Revised Cyber Monday forecast follows strong Thanksgiving sales for US retailers. Online spending surged to \$10.3 billion, up 7.7% from last year. Analysts monitor consumer resilience amid lower pandemic savings and high interest rates. Adobe analyzed 1 trillion website visits across 18 categories. Mastercard reported a 2.5% rise in US retail sales on Black Friday, with e-commerce up 8.5% and in-store sales climbing 1.1%.

- **Chip Wars of 2024: Will a cell phone take the laptop crown?**

The ongoing mobile vs. laptop competition evolves with technology and user preferences. Advancements in mobile tech bring smartphones closer to laptops but depend on factors like performance and convenience. AMD, Intel, and Qualcomm aim to rival laptops with enhanced smartphone capabilities, prioritizing AI and battery life. OpenAI explores NPUs to replace GPUs in high-performance models like ChatGPT. Smartphones threaten laptops, with Qualcomm and Lenovo potentially leading. By 2024, fierce competition may reshape views on laptops, desktops, and smartphones.



## FACULTY BLOG

### NATURE-INSPIRED COMPUTING IN COMPUTER SCIENCE: HARNESSING THE POWER OF NATURAL PHENOMENA

- **Introduction:**

Nature-inspired computing, often referred to as bio-inspired computing or simply nature computing is a burgeoning field within computer science that draws inspiration from the complex, efficient, and adaptive processes found in the natural world to solve complex computational problems. As the demand for more efficient and intelligent computing systems continues to grow, researchers have turned to nature's wisdom to develop innovative algorithms, techniques, and models. This write-up explores the diverse applications and significance of nature-inspired computing, shedding light on its significance, key paradigms, and real-world applications.

- **Key Paradigms of Nature-Inspired Computing**

Nature-inspired computing encompasses various paradigms, each drawing inspiration from different natural phenomena. Some of the prominent paradigms include:

- a) **Genetic Algorithms (GAs):** Inspired by the process of natural selection and genetics, GAs use populations of potential solutions to find the best solution to a problem. They are widely used for optimization and search problems.
- b) **Particle Swarm Optimization (PSO):** Inspired by the collective behavior of swarms, PSO algorithms use a population of particles to search for optimal solutions by adjusting their positions and velocities iteratively.
- c) **Ant Colony Optimization (ACO):** Inspired by the foraging behavior of ants, ACO algorithms are used to solve optimization problems, particularly in routing and scheduling. They rely on pheromone-based communication among artificial ants to discover optimal paths.

- **Significance, Real-World Applications and Future Prospects**

The world of nature is a treasure trove of sophisticated solutions to complex problems that have evolved over millions of years. Nature-inspired computing leverages this wealth of knowledge to tackle computationally intensive tasks in novel and often more efficient ways. Its significance in computer science lies in several key aspects:

- a) **Optimization:** Nature-inspired algorithms excel in optimization tasks, where the goal is to find the best solution from a vast solution space. Examples include genetic algorithms (GA) inspired by biological evolution and ant colony optimization (ACO) inspired by foraging behavior.



b) **Adaptation:** Natural systems are inherently adaptive, responding to changes in their environment. Nature-inspired computing models, such as neural networks inspired by the human brain, enable computers to learn and adapt to new data and situations.

c) **Robustness:** Natural systems are resilient and capable of functioning even in harsh conditions. This robustness is a desirable trait in computing, where systems must continue to operate effectively in the face of errors or failures.

Nature-inspired computing has found application in a wide range of real-world domains, revolutionizing industries and solving previously intractable problems. Some notable applications include:

- **1 Healthcare**

In the field of healthcare, nature-inspired computing has been used to optimize treatment plans, discover new drug compounds, and analyze medical imaging data. Genetic algorithms have played a crucial role in drug design, while neural networks have been employed in disease diagnosis and prediction.

- **2 Transportation**

In transportation, nature-inspired computing has been applied to optimize traffic management, vehicle routing, and airline scheduling. Particle swarm optimization has been particularly effective in solving complex logistics and routing problems.

- **3 Finance**

Financial institutions have harnessed the power of nature-inspired algorithms for portfolio optimization, risk management, and fraud detection. Evolutionary algorithms and neural networks have been instrumental in making data-driven decisions in the fast-paced world of finance.

- **4 Environmental Conservation**

In environmental conservation, researchers have used nature-inspired computing to develop models for species distribution, climate modeling, and ecosystem monitoring. Ant colony optimization has been applied to solve complex spatial optimization problems in this domain.

- **5 Robotics**

Nature-inspired algorithms have also found application in the field of robotics, where they are used for path planning, swarm robotics, and autonomous navigation. Swarm robotics, in particular, draws inspiration from the collective behavior of social insects.

Future prospects for nature-inspired computing in computer science include:

**Hybrid Algorithms:** Combining multiple nature-inspired algorithms or integrating them with traditional methods to create hybrid approaches that can solve a wider range of problems.



**Explainable AI:** Developing interpretable machine learning models by incorporating biological principles, making AI systems more transparent and accountable.

**Quantum Nature Computing:** Exploring the synergy between quantum computing and nature-inspired algorithms for enhanced problem-solving capabilities.

**Interdisciplinary Applications:** Expanding the use of nature-inspired computing in fields like healthcare, finance, and environmental science, where optimization and pattern recognition are essential.

In conclusion, nature-inspired computing represents a captivating fusion of biology, ecology, and computer science, offering innovative solutions to some of the most challenging problems in various domains. As computer science continues to evolve, the integration of nature-inspired algorithms and paradigms promises to usher in new levels of efficiency, adaptability, and robustness in computational systems, ultimately improving our ability to solve complex real-world problems.



Dr. Sanaj MS  
Associate Professor





# QUANTUM COMPUTING

Quantum computing is an exhilarating field that's reshaping the landscape of computational possibilities. Its foundation lies in quantum mechanics, harnessing the principles of superposition and entanglement to perform operations on data in entirely new ways.

Imagine bits in classical computing – they're like switches, either 0 or 1. Quantum bits, or qubits, can exist in a superposition of both states simultaneously. This property enables quantum computers to perform parallel computations, potentially solving complex problems exponentially faster than classical computers.

One of the most fascinating aspects is quantum entanglement. When qubits become entangled, the state of one qubit instantly affects the state of another, regardless of the distance between them. This phenomenon holds immense promise for secure communication and faster information processing.

Despite these incredible prospects, quantum computing is still in its infancy. Challenges like maintaining qubit stability and reducing errors (decoherence) are actively being addressed by researchers and scientists worldwide.

Applications of quantum computing span various domains, from cryptography and drug discovery to optimizing logistics and tackling complex optimization problems. As advancements continue, quantum computing is poised to revolutionize industries and unlock solutions to problems previously considered intractable.

### Advantages of Quantum Computing :

Quantum computing offers incredible potential advantages like solving complex problems exponentially faster than classical computers, enhancing cryptography with stronger security, optimizing simulations for drug development or materials science, and revolutionizing machine learning algorithms for data analysis.

### Disadvantages of Quantum Computing :

Quantum computing faces several challenges. Quantum bits, or qubits, are highly sensitive to environmental interference, making error correction complex. Maintaining qubits' stability at scale is a significant hurdle. Additionally, building and operating quantum computers is expensive due to the need for specialized infrastructure and extremely low temperatures. Quantum computers are also not a one-size-fits-all solution; they excel at certain tasks but might not outperform classical computers for every problem.

### What does a Quantum Computer do ?

Using qubits, quantum computers could buzz through calculations that would take classical computers a long time – if they could even finish them.

For example, today's computers use eight bits to represent any number between 0 and 255. Thanks to features like superposition, a quantum computer can use eight qubits to represent every number between 0 and 255, simultaneously.

It's a feature like parallelism in computing: All possibilities are computed at once rather than sequentially, providing tremendous speedups.

So, while a classical computer steps through long division calculations one at a time to factor a humongous number, a quantum computer can get the answer in a single step. Boom!

That means quantum computers could reshape whole fields, like cryptography, that are based on factoring what are today impossibly large numbers.



## Quantum Parallelism :

Quantum parallelism refers to the ability of quantum computers to evaluate a function for multiple input values simultaneously. This can be achieved by preparing a quantum system in a superposition of input states, and applying a unitary transformation that encodes the function to be evaluated. The resulting state encodes the function's output values for all input values in the superposition, allowing for the computation of multiple outputs simultaneously. This property is key to the speedup of many quantum algorithms.

## The Father of Quantum Computing :

Oxford physicist David Deutsch invented quantum computing to prove the existence of parallel universes. In 1985 David Deutsch of the University of Oxford described the construction of quantum logic gates for a universal quantum computer, and in 1994 Peter Shor of AT&T devised an algorithm to factor numbers with a quantum computer that would require as few as six qubits (although many more qubits would be necessary for factoring large numbers in a reasonable time). When a practical quantum computer is built, it will break current encryption schemes based on multiplying two large primes; in compensation, quantum mechanical effects offer a new method of secure communication known as quantum encryption. However, actually building a useful quantum computer has proved difficult. Although the potential of quantum computers is enormous, the requirements are equally stringent.

In 1998 Isaac Chuang of the Los Alamos National Laboratory, Neil Gershenfeld of the Massachusetts Institute of Technology (MIT), and Mark Kubinec of the University of California at Berkeley created the first quantum computer (2-qubit) that could be loaded with data and output a solution. Although their system was coherent for only a few nanoseconds and trivial from the perspective of solving meaningful problems, it demonstrated the principles of quantum computation.

Quantum computers based on semiconductor technology are yet another possibility. In a common approach a discrete number of free electrons (qubits) reside within extremely small regions, known as quantum dots, and in one of two spin states, interpreted as 0 and 1. Although prone to decoherence, such quantum computers build on well-established, solid-state techniques and offer the prospect of readily applying integrated circuit "scaling" technology.

David Deutsch



Gowri Shankar Kanth S  
S3 CS AI





### ADVANCEMENTS IN GENERATIVE AI: PUSHING THE BOUNDARIES OF ARTIFICIAL CREATIVITY

In the ever-evolving landscape of artificial intelligence, Generative AI has emerged as a technological powerhouse, pushing the boundaries of what machines can achieve. At its core, Generative AI leverages advanced algorithms, notably Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs), to simulate human-like creativity. VAEs, rooted in probabilistic principles, excel at learning latent representations of data, enabling the generation of diverse and meaningful samples. On the other hand, GANs introduce a competitive dynamic between a generator and a discriminator, fostering the creation of content that is indistinguishable from authentic data.

Recent strides in Generative AI have witnessed the evolution of advanced GAN architectures, notably Progressive GANs. This innovative approach incrementally refines the generated content, starting from low-resolution images and progressively enhancing them to achieve unparalleled realism. The progressive training methodology not only enhances the stability of GANs but also accelerates the convergence towards high-quality output.

Transfer learning, a pivotal technique in Generative AI, facilitates the adaptation of pre-trained models to new tasks. Preeminent models like OpenAI's GPT-3, initially trained on diverse datasets, exhibit extraordinary proficiency in generating high-quality content across various domains. Fine-tuning further tailors these models to specific applications, demonstrating their versatility in domains such as natural language processing and code generation.

Generative AI's impact extends beyond image synthesis and style transfer. In the realm of natural language processing (NLP), models like GPT-3 exhibit unparalleled capabilities in generating coherent and contextually relevant text, revolutionizing content creation and conversational agents.

As we delve deeper into the capabilities of Generative AI, ethical considerations emerge as crucial focal points. The potential for misuse, biases in training data, and security risks necessitate a vigilant approach towards the responsible development and deployment of generative models. Addressing these challenges will be paramount in harnessing the full potential of Generative AI and ensuring its positive impact on diverse technological landscapes. The quest for responsible development becomes the compass that steers us towards a future where the synthesis of human ingenuity and machine capability leads to harmonious co-creation. The journey into the depths of Generative AI beckons, promising not just groundbreaking technologies but a profound exploration of what collaboration between human and artificial intelligence can truly achieve.



Eeceta Varghese  
2019-2023 BATCH



# Upcoming Events

NOV  
23



**Adi Shankara**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY

**NBA**  
NATIONAL BOARD  
OF ACCREDITATION  
ACCREDITED PROGRAMS  
CSE, ECE, EEE, ME

**ATAL** **AICTE**  
for upskilling

**AICTE TRAINING AND LEARNING (ATAL)  
ACADEMY SPONSORED**

**6 - DAY OFFLINE  
FACULTY DEVELOPMENT PROGRAM (FDP)  
ON  
EXPLORING EXPLAINABLE AND GENERATIVE AI  
IN CONTEMPORARY MACHINE LEARNING  
DURING  
15<sup>th</sup> to 20<sup>th</sup> JANUARY 2024**

**JOINTLY ORGANISED BY**

**DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING  
AND  
DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING  
(ARTIFICIAL INTELLIGENCE)**

(Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University)

 Vidya Bharathi Nagar, Mattoor road, Kalady, Ernakulam(Dist), Kerala 683574  
0484 2463825, 2461933, 9446523599, 9995533744  
www.adishankara.ac.in

Join with us for the \*ATAL FDP\* on " \*Exploring Explainable and Generative AI in Contemporary Machine Learning\* " at \*Adi Shankara Institute of Engineering and Technology\*, Kalady, from \*January 15th to 20th, 2024\*. Renowned professors from IIT, IIIT, and industry experts will lead the sessions.

This FDP covers foundational and advanced machine learning topics, encompassing deep learning, natural language processing, cybersecurity, forensics, and explainable AI. Additionally, we delve into generative AI, focusing on AI models that create content in various forms, such as text, music, and images.

Discover the latest advancements in cutting-edge AI. Register at <https://atalacademy.aicte-india.org/login>.

For the brochure and detailed schedule, visit [The TCS National Qualifier Test \(NQT\)](https://learning.tcsionhub.in/hub/national-qualifier-test/) is a recruitment exam by India's largest IT firm, TCS. It's partnered with over 2700 companies across 23 domains in IT and non-IT sectors. Eligible candidates include final year students, pre-final year students, graduates from 2018 to 2022, and professionals with up to 2 years of experience. Various exam packages are available, with NQT IT specifically for IT professionals. A scorecard with a 2-year validity is provided. More information and registration for the NQT exam can be found [here](<https://learning.tcsionhub.in/hub/national-qualifier-test/>). The NQT is conducted every 2-4 weeks, and applications for the next TCS NQT are open until November 1st.

<https://learning.tcsionhub.in/hub/national-qualifier-test/>.

Contact:

- Ms. Sreedevi R. Krishnan, Assistant Professor, CSE. Mobile: +919605359348
- Ms. Remya Raveendran, Assistant Professor, CSE (AI). Mobile: +919496460551



Scan To Know More :



[CLICK HERE DOWNLOAD OUR PREVIOUS NEWS LETTERS](#)



**CONTACT US:**  
[newslettercse@adishankara.ac.in](mailto:newslettercse@adishankara.ac.in)

## EDITORIAL BOARD

**CHIEF EDITOR :** PROF.ANILA S, PROF TEENA GEORGE, PROF. GAYATHRI DIL, DR. HARI NARAYANAN. PROF. GRIPSY PAUL, PROF.SHARIKA T R.

**ADVISORS :** PROF. R RAJARAM (DEAN PROJECTS & CONSULTANCY), DR. SRIKRISHNAN SUNDARARAJAN (DEAN CSE, HOD-CA), PROF.MANESH T (HOD-CSE), PROF.P V RAJARAMAN (HOD-AI ), PROF AJAY BASIL VARGHESE.

**CREATIVE DESIGN:**V HARIHARAIYER . SARANG R,MADHAVAN, KEERTHANA SANTHOSH

**CONTENT TEAM :**

Anurudh PM, Anandakrishnan(S3 CSE-A), K M Tharian, Gloriya Titto(S3 CSE-B), Zaem, Nafeesa(S3 CSE-C), Gowri Shankarakanth, Merin Johny(S3 CSE-AI), Akhila Venu, Fabiya(S5 CSE-A), Shoun Augustine (S5 CSB), Nandana Narayan Das, Swathi Dinesh(S5 CSE-AI), Amritha R, Ann Maria(S7 CSE-A), Sanjay Gireesan, Navaneeth(S7 CSE-B), Aaron, Amrita Das(S7 CSE-AI)

