



Federal Institute of Science And Technology (FISAT)[®]

Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University & MG University

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VISION

To become a centre of excellence, moulding quality computer science professionals, catering to the ever-changing needs of the industry, society and promoting quality research.

MISSION

Department of Computer Science and Engineering is committed to:

M1- (Teaching-Learning) : Inculcate a passion for academic excellence through innovative teaching and learning process.

M2- (Develop Entrepreneurial Skills) : To create opportunities for students to pursue research and develop entrepreneurial skills.

M3- (Social Skills) : Nurture the students to be technically competent, morally upright and socially responsible computer science engineers to meet global challenges.

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CHAIRMAN



Ms. Anitha P

I'm very much delighted to know that the Department of Computer Science is releasing the 11th volume of newsletter-ICON 2020. It helps to showcase the activities which are happening in the department. It also provides a platform for exposing the merits and academic achievements of the faculty and the students.

Great advances have taken place in the field of computer science and engineering, bringing together the understanding of the scientific and technological foundations of computing, the concepts of software and hardware as well as those of communication technologies. The Department of Computer Science and Engineering endeavors to contribute to these advances through teaching and research in this field. I take this opportunity to congratulate the editorial board for bringing out this magazine as per schedule, which in itself is an achievement considering the effort and time required. May all our students soar high in uncharted skies and bring glory to the world and their profession with the wings of education

PRINCIPAL



Dr. George Issac

As we look to the future, one thing is certain – knowledge will be a key resource and will be highly sought-after around the world. To meet this, FISAT primarily focuses on educating and training students to work in fields where they will be valued both for their specialized knowledge and for their ability to research, communicate and solve problems.

Learning is not just confined to the classroom at FISAT. It is something beyond that in the form of conferences, workshops, seminars, guest lectures, Hackathons, project making, community initiatives, sports, Culturals, clubs and other co-curricular and extracurricular activities. The Department of Computer Science and Engineering primarily exposes students to aspects beyond the curriculum, thus adding value to their professional success.

I congratulate the entire editorial team for their hard work and dedication that has resulted in the publication of this issue of the newsletter.

VICE-PRINCIPAL



Dr. C. Sheela

It gives me immense pleasure to know that the Department of Computer Science and Engineering is publishing the eleventh edition of their newsletter this month..All of us are equally delighted to witness the happenings of significant events and tremendous achievements.I wish to extend my hearty congratulations to those who have brought laurels to the department and I appreciate all of you for working together as a team. I really believe that CSE annual newsletter shall develop a taste of reading department updates among students during this Covid-19 pandemic and will keep students with a sense of belongingness with FISAT.

DEAN



Dr. Sunny Kuriakkose

I am glad to know that the Department of Computer Science and Engineering is releasing its newsletter ICON-2020. I am sure that the newsletter will be a repository of news and information regarding the innovative events and programs organized by the department for the year 2020.The initiatives taken by the faculty and students in the department deserve appreciation. I wish all the success for their newsletter ICON -2020.

WE ARE PROUD TO BE NBA ACCREDITED



Accreditation helps the stakeholders to monitor, assess and evaluate the standards and quality of the education a student receives at a college, university or other institution of higher learning. A student in India graduating from an institute accredited by NBA is eligible to practice as an engineer in his/her relevant domain in any of the countries that have signed the Washington Accord. NBA primarily focuses on Outcome Based Education.

Outcome based education (OBE) is a student-centered instruction model that focuses on measuring student performance through outcomes. Outcomes include knowledge, skills and attitudes. Its focus remains on evaluation of outcomes of the program by stating the knowledge, skill and behavior a graduate is expected to attain upon completion of a program and after 3-5 years of graduation.



Benefits of NBA Accreditation:

- ❖ Accredited institution / program offers the highest quality education available
- ❖ Accreditation helps institutions to know their strengths, weaknesses and opportunities, pushes them to continuously improve their programs and give them a new sense of direction, identity and targets.
- ❖ Accredited institution / program demonstrates accountability to the public, commitment to excellence and continuous quality improvement.

After the epoch-making success in achieving NAAC accreditation with A grade, we focused on NBA accreditation for five B.Tech. programmes.

The following is the gist of preparations done in the initial phase.

- ❖ Department Advisory Committee was formed and meetings were conducted.
- ❖ Vision, Mission, PEOs and PSOs were finalized after the stipulated process designed by the College.
- ❖ Course Outcomes of each course were framed and fine-tuned in several meetings.
- ❖ CO-PO mappings were done by the Course Assessment Committee (CAC).
- ❖ Various gaps in the syllabus and content beyond syllabus were identified and follow up actions were executed.
- ❖ The content delivery was done using innovative methods using modern tools.
- ❖ Assessment and Evaluation were done using the prescribed rubrics designed by the College.



The second phase preparations were concentrated mainly on the five under graduate programmes presented before NBA viz. Computer Science and Engineering, Electronics and Instrumentation Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering. The second phase preparations include:

- ❖ Submission of the Pre-Qualifiers and got them approved by NBA.
- ❖ Registration and submission of the Self Assessment Report (SAR). [The hard copies of the SAR of the five programmes were prepared to be submitted as required by the NBA with the Current Assessment Year (CAY) as 2018-19. But later, it was intimated to upload the eSAR that also with the CAY 2019 – 20.]
- ❖ Conduct of Mock visits by external experts.



Special Congrats to Dr Prasad J C, DR Arun Kumar M N, Ms. Reshmi R and all criteria coordinators and their team for organizing all the NBA activities in a fruitful manner.

Criteria 1- Vision, Mission and Program Educational Objectives

Dr Prasad J C, Meera Tressa

Criteria 2- Program Curriculum and Teaching – Learning Processes

Jyothish K John, Anitha T Nair, Meenu Mathew, Jinu Mohan

Criteria 3 - Program Outcomes and Course Outcomes

Shimy Joseph, Simi Stephen, Neenu Johnson

Criteria 4 - Students' Performance

Divya John, Chethna Joy, Remya R, Merin Cherian

Criteria 5 - Faculty Information and Contributions

Lakshmi S, Dr Paul P Mathai, Siyamol C, Sruthy S

Criteria 6 - Facilities and Technical Support – Teaching Labs and Special Laboratories

Preethy N P, Pankaj Kumar M N

Criteria 7 - Continuous Improvement

Soumya S Raj, Anuranj P

Criteria 8 - First Year Academics

Hansa J Thattil, Jismy Mathew

Criteria 9- Student Support System

Hema Krishnan

Criteria 10- Governance, Institutional Support and Financial Resources.

Roshna K I

The NBA Peer Team visited our department on 13th, 14th, 15th of February 2020. The evaluators visited the department and assessed every key detail as per the Self Assessment Report. There was a detailed interaction with teaching and lab/technical staff and verification of various files & documents. They also visited the labs, attended a few live classes and interacted with the students. Computer Science and Engineering department achieved the highest score among all other departments in FISAT.

We thankfully express our gratitude to the present and former members of the Management Committee particularly Mr. George C. Chacko & Mr. Rajavarma, (who were assigned duty of supervising the NBA accreditation process), the former chairman Dr. Paul Mundadan, the present Chairman Ms. Anitha P, the Vice Chairman Mr. Anish Kumar R & the Treasurer, Mr. Sachin Jacob Paul, for their unconditional and unfailing support all through the preparations.

We are greatly indebted to the Principal Dr. George Issac, Vice Principal Dr. C. Sheela, the Director Academics Dr. KSM Panicker, Dr. Sunny Kuriakose (NBA Coordinator), the Chief Administrative Officer Sri. Prakash C. Chandy, all HoDs, members of various committees, and the entire FISAT fraternity-staff (teaching and non-teaching), students, PTA, Alumni-for their unflagging support extended. The entire exercise has been a good manifestation of dedicated team work and has been really a learning experience for us.



Dear Students, Parents and Faculty members,
New Year Greetings!

The world has changed a lot during the last year due to the restrictions and lockdowns as preventive measures to avoid the widespread of corona virus. The world hastily turns into a digital world. The importance of computer and communication technologies through Internet has been increased rapidly which in turn creates lots of opportunities for IT professionals'.



Dr. Prasad J C

Online environment for every day to day activity due to COVID pandemic was a great challenge and at the same time opened many technologies and opportunities before us. To organize classes and student development activities in the most comfortable way in online mode is another challenge we faced in 2020. Because of the cooperation of students and faculty, the CSE department organised all regular activities through virtual mode. Fifth International Conference with the support of IEEE, International and National level Workshops, Webinars, Cultural Programs, Christmas/Onam Celebrations, Debates, Quiz, Placement-training programmes, Farewell Meetings, Induction Meeting, Class Committee Meetings, Faculty Meetings etc were organised in addition to the regular Online classes and Lab sessions. I take this opportunity to thank all members of faculty, technical staff and student leaders for their timely leadership to organize various events in the department. I hope blended learning with online and offline classes will be the future of education as per the new policy of MHRD in the coming years.

CSE Department of FISAT is proud to share the placement and academic result of the year 2020. 162 job offers received for CSE students (2016-2020 Batch) in the year 2020 with 100% pass in S8 examination. In the year 2019, the final semester FISAT CSE students bagged the second position among the other KTU affiliated colleges. We feel very proud and I am taking this opportunity to congratulate my students' and faculty for their dedication and hard work

In the year 2020, CSE Department got NBA accreditation with the highest score in FISAT. I am sure that this accreditation will help us to get more research and project opportunities for FISATians, so that engineering students will be more focused with research and project related activities.

Also felt very happy to say that the Team CSE is not only concerned about their performance in academics, but also as socially committed professionals. Team CSE always offers generous hands to the needy. The students used to visit the nearby orphanages. Also we, the CSE family, are thankfully remembering all the members who contributed for supporting our CSE lab faculty who are down due to an unexpected stroke that happened in April 2020. More than 15 Lakhs were contributed by faculty, students and alumni of FISAT. May God Almighty reward you all and praising Him as she is recovering now.

I hope the year 2021 demands more technical Computer expertise in terms of both quality and quantity. To cope up with the current demand, we are trying to increase additional seats for the B.Tech CSE programme in the coming years. Technical skill-set will play an important role for the engineers, especially in the area of data science, Artificial Intelligence and Machine Learning, because entire data is online now. In the year 2020, more than 600 Online Certifications were obtained by CSE department students and faculty. Hearty Congratulations. Let's continue this to enrich ourselves and offer our best to society.

Although we are regularly communicating in virtual mode, we all are eagerly waiting for the moment that we all go back to our lovely FISAT campus. We started the offline classes partially; I request all to take utmost care in making ourselves safe.

Also, I am taking this opportunity to congratulate the CSE Team for their initiative and efforts taken to publish the 11th edition of the Annual Newsletter 2020. I wish you all once again a happy and healthy year ahead.

“When times are good, be grateful, and when times are tough, be graceful.”

-Dustin Poirier

The CSE department continued its activities even in the midst of adversities. We in the department feel that adversities will have potential opportunities in them. The IEEE conference hosted in this duration in the CSE department stood separate with its professional conduction and quality papers. The department has evolved as a centre of research with seven students pursuing their PhDs. But for the undergraduate students, the focus should be on programs that make them industry ready professionals. FISAT has emerged as a top institute with five accredited programs. The educational policy proposed by the central government emphasizes bridging the gap between industry and academia.

The ASAP (Additional Skill Acquisition Programme) by Govt. of Kerala treats FISAT as a trusted partner. With the programmes designed by ASAP and FISAT, the students in FISAT can graduate with at least three Industry preferred professional certifications. Such students will get an extra edge in their job selection and growth. The CSE department is a major contributor to the Institutions' such initiatives. We have to establish more programs that give the students more exposure to industry practices such as quality internships and establishing industry-supported labs.

Thank you.



Dr Jyothish K John
Associate Professor

Alumni Speaks



Anoop Krishnan
Senior PMO Analyst, CareStack

The computer science department of FISAT has been instrumental in shaping my career path, thanks to their unique approach in teaching and development. While our labs and

research centres remain one of the best in the state, what I appreciate the most was how the CSE department nurtured our networking skills through frequent technical events. Meeting and connecting with leading industry folks helped me identify and develop my own best practices in networking that later helped me in both my career and higher education.

I graduated from FISAT in 2013 and joined the IT workforce, but the dedicated faculty remained connected in the best interest of my career aspirations. I still remember how Dr. JC Prasad and the rest of our faculty helped me plan my applications for higher education during the year 2016- I secured admission in one of the most prestigious Universities of USA - Texas A&M University. I would without reservation vouch for the CSE department of FISAT which is committed to helping students attain success both while enrolled within the college and as the college alumni.

Online Teachers Day Celebration

On 5th September 2020, as a part of National Teachers Day, the A batch students of 2019-23' Computer Science conducted an entertainment programme MAHALO for the teaching faculty. It was hosted on Google Meet platform from 3pm to 5pm.

Dr J C Prasad, HoD of CSE Department was the Chief Guest of the event. It was a fun, lively and energetic session which included many games, songs, storytelling and dances. The event ended with beautiful busts of memories.



ACCTHPA 2020-THE FIFTH INTERNATIONAL CONFERENCE

ACCTHPA 2020, the fifth International Conference on "Advanced Computing and Communication Techniques for High Performance Applications (ACCTHPA)" was a prime conference that provided a forum to bring together the researchers from academia and industry to convene and swap the ideas and recent research work in the area of High Performance Applications. ACCTHPA was conducted on July 2-4, 2020 at Federal Institute of Science And Technology (FISAT). The Conference turned out to be a great Success and the entire event was coordinated by Dr Prasad

J C ,Dr Arunkumar M N , Dr Jyothish K John, Dr Paul P Mathai and Dr Jestin Joy.

Due to the covid pandemic conference was hosted online. ACCTHPA was organized in association with IEEE Kerala Section. All accepted and presented papers were published in IEEE Xplore.

The theme for the conference was "Latest trends in human centered HPC applications". HPC applications have the power to realize a better future for humanity. This involves utilizing knowledge from different fields of computing.



HPC applications can be developed in various fields of Science and Engineering for the progress of humanity.

Event turned out to be a great success with 16 papers were presented on each day of the conference.

KEYNOTE SPEAKERS



Dr. S. D. Madhu Kumar

Professor of CSE Dept. & Dean (SW),
NIT Calicut

Cyber Security and Dark Web.

He shared the scope of various research areas in the field of cyber crimes in social media. He also contributed ideas on how to counter those crimes using machine learning, AI, deep learning and NLP techniques.



Mr. Fabin Rasheed

Pretia, Japan

Creating for creating.

He shared his experiences in working at the merger of creativity and technology through Art and Design using Technological innovations like AI, AR/VR, Generative design etc.



Mr. Sreelal T S

Delivery Head, Strategic Program, TCS

Industry Adoption of Human Centered Design

He shared his ideas of human centered design in industry. He gave the importance of switching technology centered design to human centred design for commercially-successful products



ICEFOSS 2020 THE EIGHTH NATIONAL CONFERENCE



ICEFOSS is a Free and Open Source Software Conference organized by FISAT Free Software Cell (FFSC). ICEFOSS 2020 held on 3rd and 4th February was the eighth edition of this conference. The conference provided an open platform for idea exchange, discussions and awareness. With more than 150 participants from various colleges in Kerala, ICEFOSS,2020 was a highly successful event. The conference was inaugurated by Dr. J. Latha, Pro-Vice Chancellor of Jain University. Eminent speakers of the program were Naufal Ibrahim (Free Software Consultant and Trainer), Johny James (Senior Software Engineer at Myntra), Midhun K (Senior Software Engineer at United Layer), Adam Shamsudeen (Research Engineer at Saama) and Dr. Sreeraj M (Asst. Professor at Sree Ayyappa College Eramallikkara). The conference included workshops covering different aspects of free software.

Machine Learning Using Tensorflow 2.0 3



Dr. Sreeraj M delivered an interesting talk on Machine Learning using TensorFlow. This workshop covered the basics of TensorFlow 2.0 and Machine Learning. It also addressed image processing applications using TensorFlow 2.0.



DOCKER and KUBERNETES



An enlightening session on DOCKER and KUBERNETES was handled by Mr. Johny James and Mr. Midhun K. Docker provides virtualization capabilities and nowadays it is widely used in industries. Docker is used to run software packages called "containers". Originally designed by Google, Kubernetes is widely used in industry for automating application deployment.

Introduction to Go programming language



A practical session on 'Introduction to Go programming language' was taken by Mr. Noufal Ibrahim. The session covered a quick introduction to Go and its main features including the concurrency primitives called "GoRoutines".

Natural Language Processing



Sessions on Natural Language Processing was taken by Mr. Adam Shamsudeen. He solved simple tasks in natural language processing. The feedback received from the participants was highly appreciable.



MANTRA 2020

The Annual CSE Day – Mantra 2020, was conducted in an impressive manner on July 29th 2020, in association with THYRA, the students association of Computer Science and Engineering Department, FISAT. This year, amidst the current pandemic situation, the event was successfully conducted through a digital platform. It included a week-long engagement of coding contest, quiz, cultural competitions, MEAN stack workshop, Alumni interactions, technical talk and project expo exhibited by the students of final year and third year.

Virtual project Exhibition 2020

The Department of Computer Science and Engineering conducted a virtual project exhibition

for the students to exhibit their ideas and solutions. It was inaugurated by Dr.J.C. Prasad, HOD CSE Department. This initiative focuses on enhancing the learning opportunity to the students of CSE Department of FISAT with guidance from well supported faculty in dynamic learning environments.



ACHIEVEMENTS

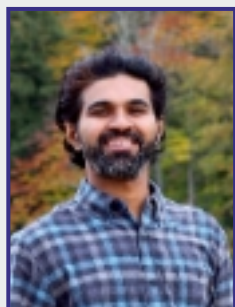
Best Outgoing Student

Mr. Yedhin Kizhakkethara received the award for the best outgoing student.



Special Recognition Award

Ms. Nandini Menon received the special recognition award for showcasing various talents in both extra curricular and academic activities.



Alumni Speaks

“FISAT’s excellent Computer Science Dept., has really been helpful in building my skills as a Software Engineer. In addition to academics, the faculty encourages students to apply the knowledge to solve real problems”

Arun Stanislavose
Senior Software Engineer, RoadBotics

BEST MAIN PROJECT

Assistive Humanoid Robot for the elderly -

In the current world, where people strive day and night to meet their day-to-day goals, people often have to leave their weak and disabled elderly parents alone at home. This situation causes mental distress to both the person staying at home and the people leaving their dear ones alone at home. It will also lead to the need for a personal assistant for the weak or disabled person at home. Hiring a human caregiver is not preferred by many due to the lack of privacy, unskilled employees, and are more often considered an overburden. The objective of this project was to develop a cost-effective, reliable, and trustworthy human-like assistive robot. The robot, with cognitive capabilities, could verbally and physically interact with humans, send alerts to the necessary people when an emergency arises, and even provides a capability to be completely monitored and controlled by an authorized remote person. Low-cost, yet strong, building materials, easily available hardware, and openly available software resources were used to develop the robot.



Job Jacob, S8 CSE B



Meta-Heuristic Algorithms for Global Optimization

As part of the project, two new algorithms were introduced to find solutions for such large optimization problems. Global Tree Optimization (GTO) and Iravatham Optimization algorithm. The GTO algorithm is inspired by the growth of a tree. The basic principle is that there is a single tree with several branches and each branch represents a portion of the different possibilities with which the problem can be solved and each branch consists of several leaves each of which represents a unique solution. Iravatham optimization is an algorithm based on the Sanskrit word 'Airavata' which means 'white elephant' or 'elephant of the clouds'. The Iravatham optimisation algorithm is specifically developed for the purpose of optimizing scheduling problems, especially cloud scheduling. Each elephant in our algorithm has multiple heads each of which represents a possible solution to the problem.



Abhijith P, Aswin Kumar K S, Dileep Vijayakumar S8 CSEA

Best Popular Project: Data Slicer



Paul Antony, Mohammed Zeeshan, Shreya Kulangara,
Zachariah Joshy - S8 CSE B

The field of machine learning has seen a rapid advancement in the past decade. Our day to day life is influenced directly or indirectly by my machine learning algorithms. ML is being used to predict natural disasters to movie recommendations. Even with this rapid advancement in the field, interpreting and debugging of ML models is still an area requiring further research. Data Slicer solves this issue by automatically identify such problematic slices. It identifies the subsets or slices of data in a human-readable form (gender = male, salary > 20K) rather than an arbitrary collection of data points.

ARTECH TECHNICAL WRITING CONTEST



As part of mantra, a technical writing contest was conducted on July 25th, 2020 by the Department of CSE, in association with Thyra

First Prize



Sanika T C
S2 CSE B

Second Prize



Basil Leju
S4 CSE A

Third Prize



Joseph Shaju C
S2 CSE B

BEST DESIGN PROJECT

Video Transcription using Segmented Keyframe Extraction



Linda Joy , Maria Sajan - S6 CSEB

"Video transcription using segmented keyframe extraction" elaborates an efficient key frame extraction method for video summarization using the concept of comparison by parts. Videos are made up of an indefinite number of recurring frames that contributes to a major share of its storage requirement. This limitation can be handled if it's possible to extract the core essence of the video by eliminating the repetitive content and storing the key frames alone. The frames are divided into a suitable number of segments, and segment by segment comparison using absolute difference is adapted. Then the threshold technique was used to extract the key frames. This algorithmic procedure doubled the CPU efficiency when compared to the existing threshold method. This work gained its success from the inspiration it got from Cognitive Computing and Research Centre(CCRC),FISAT. A research paper entitled "Segmented Keyframe Extraction" was published in NCOCS-2019 held at NIT, Puducherry. An extended application level work of the same , titled "An automated surveillance camera monitoring and analysis using segmented keyframe extraction" ,also received awards including one from NIT,Calicut as part of TATHVA'19 and one at the national fest of Rajagiri college of social sciences, 2019.

Recommender System:

Acharya is a community learning platform where the students can avail the various tools for learning, including additional web-resources, video-lectures, virtual labs and self evaluation. It's introduced to improve the current standard of education system by introducing trending technologies. It follows a unique, creative and innovative teaching strategy in order to meet students' individual needs. It encourages contributors to upload multilingual videos. Multiple videos on the same topic makes it easier for users to learn.



Liya Laiju , Saurav N S , Rishad - S6 CSEB

HORTARI ONLINE CODING CONTEST



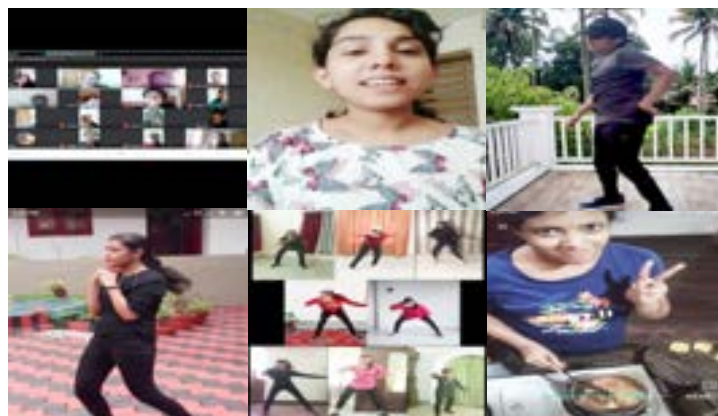
CSE Department signed an MOU with HORTARI TECHNOLOGIES PRIVATE LTD on May 9th, 2019. The MOU stimulated and facilitated the skill development of students through HORTARI platform. To enhance the coding skills of students a coding competition was conducted in association with Thyra.

Position I



Ajay Nair
S2 CSE A

ENIGMA CULTURAL COMPETITION



Position I : S4 CSE A

Position II : S6 CSE B

Position III: S2 CSE A

SMRITHI 2020 COMPETITIVE PROGRAMMING CONTEST



Every year coding contest is conducted by the Department of CSE in remembrance of Lt Shagheej A (2017 passout student). It is a technical event where students can showcase their coding skills in a creative and stimulant competitive environment. The event provides a stage to showcase one's skill and find new knowledge.

First Prize



Abijith Pradeep
S8 CSE

Second Prize



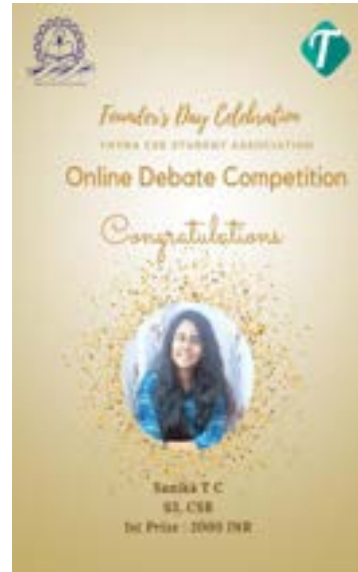
Paul Antony
S8 CSE B

Third Prize



S Krishna Bhat
S6 CSE B

CSE department, in association with THYRA -CSE student association conducted a debate competition in remembrance of Shri P V Mathew on 27th September 2020. Ms Sanika T C of S3 CSE B and Mohammed Shehzad Hanif of S5 CSE B won the First and Second prize respectively.



LAUNCHING of LORAWAN



FISAT became the first engineering college in Kerala to open a public Lora gateway. Cognitive Computing Research Centre (CCRC), FISAT has currently set up two lorawan gateway in Ernakulam district. The public can utilize the gateway freely for their innovative research works. LoRaWAN (Long Range Wide Area Network), a protocol for creating large-scale public networks allows IoT devices to communicate over large distances without 3G or WiFi.

Team: Dr. Jyothish K John, Mr. Pankaj Kumar G, Mr. Shemin Anto, Mr. Narayanan V Eswar, Ms. Maria & Ms. Linda

WEBINAR CONDUCTED BY CSE DEPARTMENT

A webinar was conducted on June 26th 2020 by ACM Student Chapter, FISAT on the topic **“Future of Work :Opportunities and Challenges”** by Mr Sreejith K, Senior manager, CTS, California. The focus of the webinar was to imbibe knowledge about the various opportunities a BTech Computer Science graduate has in his career. A total of 28 ACM members from the department attended the session.



database of records of all transactions or digital event that have been executed and shared among participating parties. Blockchain is the backbone technology of digital cryptocurrency Bitcoin. Hyperledger is an



Resource Person
Mr. Parthiban Selvaraj is a certified Blockchain Architect, Researcher and Design Thinking Practitioner at TCS.

umbrella project of open source blockchains and related tools, started in December 2015 by the Linux Foundation, and has received contributions from IBM, Intel and SAP Ariba, to support the collaborative development of blockchain-based distributed ledgers. In this session an introduction to blockchain architecture and Hyperledger framework were done.



An industry interaction was organised on 28th July 2020 in connection with Kerala Block Chain Academy on the topic **“Introduction to Digital Twin & its Applications”** by Mr Bibin Manuel, Lead-Microsoft Azure COE, TCS. Introduction to blockchain, its applications

and challenges were discussed in the interaction.

CSI Student Branch, FISAT hosted a webinar on **“Web App Development using Bootstrap and Hosting”** on 24th July by Mr. Anish S Nair, Co-Founder & CEO, Logix Space .The webinar focused on how to build fast, responsive web sites using Bootstrap. Mr. Anish also demonstrated how to deploy the website through heroku, a cloud platform which serves the purpose of hosting the web sites. Almost 50 students participated in the session.



A talk was conducted on 29th July 2020 in association with Thyra on the topic **“Building Expectations and Building Professional Competencies”** by Mohammad Farhan, Alumni and Security Consultant at Synopsys, SIG, Bengaluru. He shared his industrial experiences and his view to build professional competencies among employees.



Department of Computer Science And Engineering in association with Computer Society of India (CSI) student branch conducted an interactive talk by alumni Mr. Ashwin Kurian Wilson on the topic **“Digital Designing”**. Talk was conducted on August 8th, 2020. Due to COVID-19 pandemic, talk was conducted in Google Meet. Mr. Ashwin gave an insight into the various courses which can be opted by computer science graduates for doing

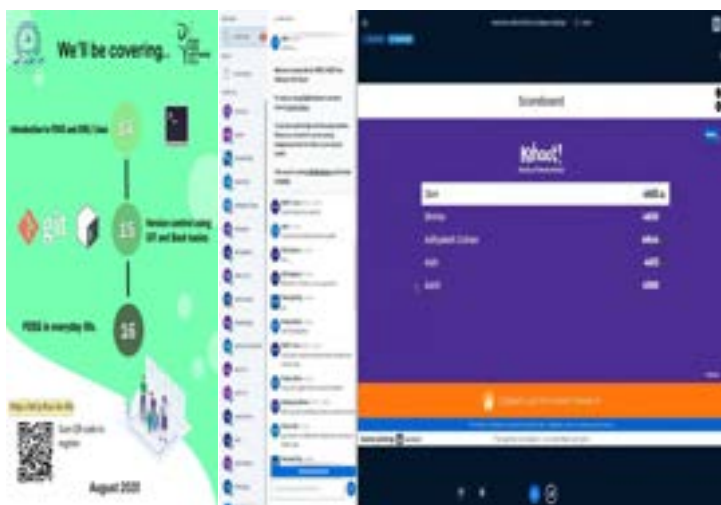
A talk on the topic **“Introduction to Blockchain And Hyperledger Framework”** was conducted by Mr Parthiban Selvaraj on 6th and 7th August 2020. He is a certified Blockchain Architect Researcher and Design Thinking Practitioner at TCS. Blockchain is a distributed

Masters in Design. He spoke on where and how to enroll for the design courses, how to prepare for the entrance exams etc. He illustrated his experiences in Human Centered Design.

A webinar on Free introductory classes on the topic “**AI :Stepping into the future**” was organised by CSE department in association with FFSC ,FISAT on the topic on 9th August, 2020.



The FISAT Free Software Cell Conducted a workshop “**Hack Life for FREE**”. It was a 3 Day Workshop on Free and Open Source Software focused on the First Year students .The workshop was inaugurated by Dr Prasad JC (HOD, CSE Dept). In this workshop we discussed what is FOSS, importance of FOSS, what are the FOSS alternatives, FOSS in Daily Life etc.



A webinar was organised by CSE dept, FISAT in association with IIT Roorkee & Wiley on **Post graduate certification in AI for BFSI** on 21st August, 2020.



Kerala Blockchain Academy Innovation Club (KBAIC), Dept of CSE conducted a

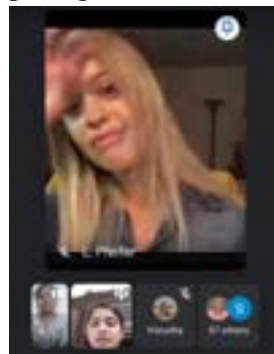


“**Hands-on workshop on blockchain**” by Mr Melwin Sunny and Ms Lekshmi K B, Research and Development Engineer, Kerala Blockchain Academy on 23rd November. The topics covered were Types of Blockchain, Potential Disruptions with Blockchain, Future Job Aspects.

CCRC conducted an Online MEETUP and workshop “**HACKTOBERFEST**” on 10th October as part of the International Annual Hacktoberfest Challenge, as an effort to introduce and encourage students to take part in FOSS activities and contribute to open source projects. Mr Jacob Herrington ,Springdale, AR USA was the chief guest.



A hands-on session workshop ‘**VIZIA**’ on Computer vision using fast.ai by Ms Lauren Pfeifer, Data scientist San Francisco, California on November 21st 2020. She's the one who leads the AI project for the world economic forum's global shapers hub in San Francisco, which built a global community of next generation leaders in AI and has launched a public engagement survey on youths' perception on AI.



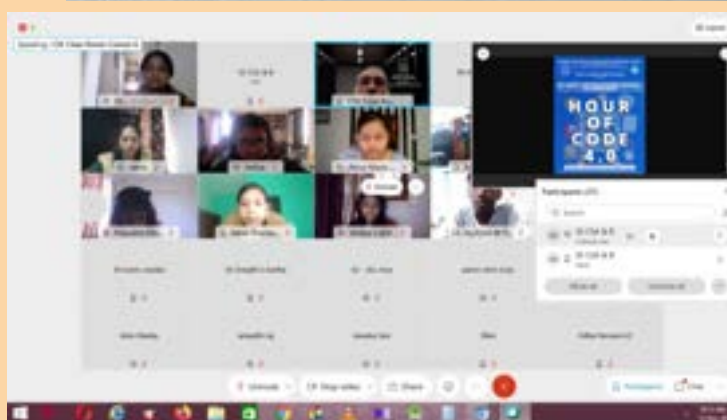
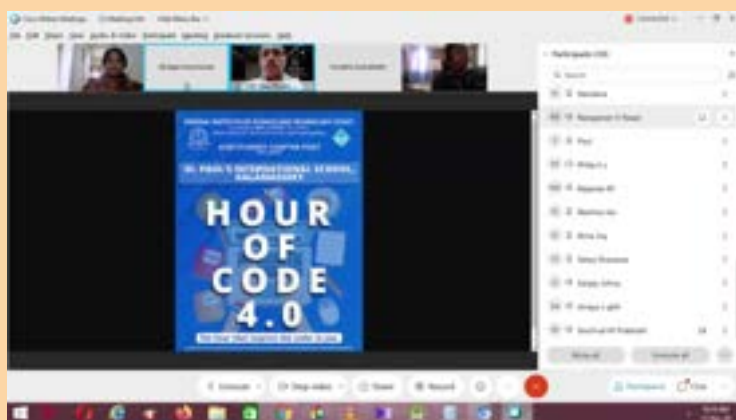
The session was basically for beginners, elucidating the basics of Computer vision and it's approach through the usage of fast.ai. The participants made bounteous use of the session along with Ms. Pfeifer by the aid of Google Collab. The session was inaugurated with an introductory speech by the HOD of Computer Science Department, Dr. Prasad J.C. A total of 50 ACM and Non-ACM members from different departments of FISAT attended the session.

Every year **FISAT Free Software Cell** conducts an introductory class for the newly joined first year students. This year they conducted an introductory class on 28th December. All the students actively participated and interacted for the class.



HOURLY OF CODE

Every year ACM Student chapter FISAT organizes 'Hour of Code Programme' as a part of the world wide celebration of Computer Science week in association with ACM. On 12th December 2020, ACM Student chapter conducted Hour of code for the students of St Paul's International School Kalamassery. Our HOD, Dr. Prasad J. C, ACM Faculty Sponsor, Mrs. Sruthy Suresh, St. Paul's School Principal Sheela Xavier attended the inaugural session. ACM members took class on Scratch Software and about 25 students of 7th standard of the school attended the session. The participants were awarded with online certificates.



CELESTIA 2020

An intercollegiate quiz was conducted by ACM ,student chapter FISAT on 29th July 2020

First Prize : S Krishna Bhat(S7CSB)

Second Prize : Malini S Rao(S7 CSB)



Web Development Bootcamp for FISATians was conducted by ACM Student chapter on 19th and 20th December. The session was handled by our CS Alumni, Mohit Rajan E. The sessions covered topics on Introduction to HTML, CSS and Bootstrap. About 35 students attended the two day session.

LAUNCHING OF ACHARYA

Acharya-an E-Learning platform developed by Cognitive computing Research Centre (CCRC) FISAT. Unlike traditional E-Learning platforms, Acharya offers users multiple videos for the same topic. The platform also offers multilingual support. The platform also offers a virtual lab where students can experience the lab environment. Currently, a course titled "**Introduction to Python**" is completed. The contents of the course is completely developed by the students of CCRC.

Team: Mr. Pankaj Kumar G, Mr. Saurav N S, Mr. Rishad Ms. Liya Laiju, Mr. Jerin Jayaraj, Ms. Anagha Zachariah

Faculty with 100% Result

Ms Reshmi R - Graph theory and combinatorics in S6 CSB (2013 Adm Yr)

MPOWER

Mpower was conducted to second year students by Mr K Krishnakumar and Dr Mridhula M. This program with the objective of improving the soft skills of students helped them present and visualise their ideas.



Farewell Program

Like every year's traditional farewell programme for the pass out students, this year due to the pandemic situation, an online farewell function was arranged to our 2016-2020 batch students on 1st August 2020. Faculty members and students shared their experiences through online platform. Faculty shared blessings and various guidelines on how to move forward and be successful in life.



Panel discussion with ICT Academy of Kerala

Three students from each class participated in an online panel discussion on the future career opportunities in IT, organised by ICT Academy of Kerala, supported by Amazon, TCS, EY, InApp, KTU and Govt. of Kerala on 8th May 2020. Major discussions were changes for the students and education institutions in the unprecedented time. The team also discussed the recruitment's future of jobs, working environment in companies and so on. It was a very beneficial talk for the students.

Industrial Visit

CSE department organised an Industrial visit for S7 CSE Batch students to "West Coast Paper Mills Limited (WCPM)", Dandeli in Uttara Kannada district in Karnataka, 5th October 2019. They visited WCPM to interact with the industry and to understand current market scenarios and latest demanding technologies being used in the industry. The West Coast product-line features well-established brands of commercial to premium grades of paper and boards ranging from 54 to 600 GSM, catered to across six different product segment namely; Writing, Printing, Business stationery, specialty, industrial and packaging. The Technical Head of WCPM conducted a very informative session for the students, about the elaborate process of paper making and the importance of technology in the model. He talked about the practical use of machinery and equipment developed particularly for the application of making different qualities of paper that is used in a number of different applications. The visit was best of its kind, students were exposed to various technologies and got to learn from it.



Webinar by ACM India

Our Students actively participated in the webinar conducted by ACM India on 19th May by Mr. Navin Kabra, Cofounder and CTO of ReliScore on the topic "Common mistakes in campus tests and job interviews". Mr. Shekhar Sahasrabudhe, chief operating officer of ACM hosted the session. The main objective of the webinar was to cover some of the most important areas where students commonly fall short, including practical aspects, writing good SQL queries, using the right data-structures in different situations, and other such issues. He covered the major differences between student programmers and professional programmers. The session mainly focused on soft-skills, professional etiquette and interview preparation and TCS overview and codevita.

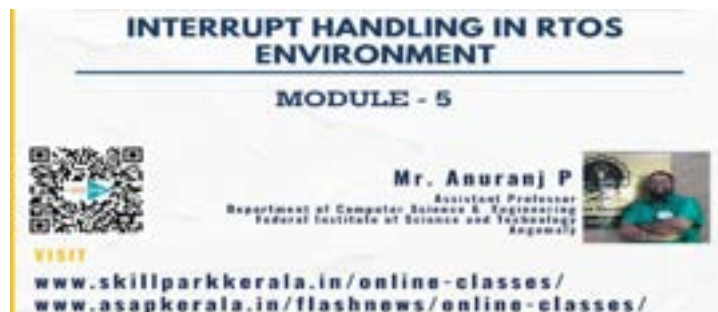
STAFF ARENA

Congrats to Mr. Jestin Joy

Mr Jestin Joy was awarded the degree of Doctor of Philosophy under the faculty of Technology for the thesis entitled “**Design and Development of Assistive software tools for improving the effectiveness of Sign Language Based Learning**”



Dr. Jestin Joy handled a class on “**Python for beginners**” for the CSI cochin chapter on November 21st 2020.



Mr. Anuranj P Conducted ASAP, online classes on the topic “**Interrupt handling in RTOS Environment**” to all KTU students on 11th May

Mr Mahesh C Conducted ASAP, online classes for the subject Principles of Information Security to all KTU students.

edX & webX

All the members of the CSE department switched on to the Edx platform due to the Covid pandemic this year. Mr. Mahesh. C, Assistant Professor of CSE Department gave training to all the staff members of the college on how to use the Edx platform. All the members of our department shared their Course Materials and even their recorded videos through this platform. This was very helpful to the students in the pandemic situation.

In addition to this, the entire CSE team took live classes on their respective areas initially through Google Meet and later on we moved to the Webex platform. Any issues in the usage of Edx and Webx platforms were addressed by Mr. Rajesh. T. R and his team of CSE Department.

The team led by Mr Pankaj Kumar G Received Best Paper Award for paper titled “**Sustainable and Collaborative Automated Farming Technology with LoRa**”, NCECC-2020: National Conference on Electronics, Communication and Computation, **NIT Jamshedpur**, September 2020. The team includes Shemin Anto, S Krishna Bhat, Keerthana Krishnakumar, Sherin Shaju, Narayanan V Eswar.

Goodbye!



Ms Mareena Mathews and Mr. Arun departed our department during this academic year. The CSE Department wishes both success in their future endeavours.



Dr. PRASAD JC

- >> General Program Chair, and Chief Organizer for the fifth international conference ICACCTHPA-20, held at FISAT
- >> KTU Panel member of International Finastra Hackathon
- >> Judging committee member of the event “HACK to the Future” conducted by KTU
- >> Institute Representative of IIT-M for NPTEL examinations Dec 2020
- >> Reviewer of CSMCS-2020, NIT Calicut
- >> Reviewer of ICCACCTHPA 20, FISAT
- >> Submitted two research project proposals 1) ASEAN -DST in October 2020 2) National Super Computing Mission in Nov 2020
- >> Resource person of career guidance programme NICAT, Thrissur.
- >> Dr. Prasad JC ,HOD ,CSE department was selected as a member of the judging committee for the event “HACK to the Future” conducted by KTU .

Dr. ARUN KUMAR MN

- >> Technical Program Chair, and Chief Organizers for the fifth international conference ICACCTHPA-20, held at FISAT
- >> Two Joint Publication/Research activities with NPOL, Kochi
- >> Session chair for ICRTST 2020, ATMECE, Mysore
- >> Session chair for the conference :- Virtual International Conference on Energy, Environment and Health (INFOFEST 2020) SREE AYYAPPA COLLEGE, Eramallikkara, Chengannur, Alappuzha District.
- >> Reviewer for ICRTST 2020, ATMECE, Mysore
- >> Reviewer for ICACCTHPA-20, FISAT, Kerala
- >> Deputy Presiding officer at FISAT for JAM-2020
- >> External Examiner for Ph.D viva voce examination, VTU, Research centre: RV college of engineering, Bangalore
- >> Submitted RPS to AICTE (Nov 2020).

Dr. PAUL PMATHAI

- >> WIPRO CERTIFIED FACULTY -Successfully passed the TalentNext Java certification by WIPRO Technologies and is a recognised Mentor for "Project Based Learning - PBL" in Java J2EE
- >> A Patent entitled "An automated Methodology and System to Manage the Student Related Information Efficiently" was published in the Indian Patent Journal during June 2020.
Patent Application Number: 202041021480A, Publication Date: 05/06/2020
- >> Selected as an External Academic Auditor of Kerala Technological University and Conducted audit process at College of Engineering, Cherthala and SNGIST Group of Institutions, Paravoor.
- >> Received “Innovative Research & Dedicated Teaching Professional Award” from The Society of Innovative Educationalist & Scientific Research Professional Chennai during 2020.

Staff Publications

1. "G Pankaj Kumar; C Anagha Zachariah; D R Umesh; Dr. M N Arun Kumar; " CloudStore: A Framework for Developing Progressive Streaming Games, Intelligence in Big Data Technologies-Beyond the Hype, Springer, Singapore, 291-296, 2020.
2. Dr. Arun Kumar M N, "Ocean Surface Features Extraction using Morphological Techniques from Sentinel-1A Data", Volume 5, Issue
3. Dr. Paul P Mathai, "Sasha Sneha – An Approach for Plant Leaf Disease Detection", World Academy of Research in Science and Engineering, Volume 8, Issue 5
4. Dr Paul P Mathai, "An enhanced fusion based region selection of co-salient detection", International Journal of Advance Research and Innovative Ideas in Education, Volume 6, Issue 3
5. Dr. Paul P Mathai, "A New Approach for Developing SMART DEPARTMENT" in International Journal of Research in Engineering and Science (IJRES)
6. Hema Krishnan, "A Novel Underwater Image Enhancement technique using ResNet" in 4th IEEE Virtual Conference on Information and Communication Technology
7. Hema Krishnan, "Sentiment analysis of product reviews using weighted distance-based whale optimization assisted deep belief network", International journal of business information systems (inderscience).
8. Chirakkarottu, Siyamol, and Sheena Mathew. "A novel encryption method for medical images using 2D Zaslavski map and DNA cryptography." SN Applied Sciences 2.1 (2020): 1.
9. Chirakkarottu, Siyamol, and Sheena Mathew. "A Novel Secure and Robust encryption scheme for medical images." Current medical imaging (2020)

Conferences

1. Dr. Arun Kumar M N, "Extraction of Layered Information from Satellite Image", National Conference on Recent Trends in Engineering and Technology, Malabar Institute of Technology, Kannur.
2. Abijith, Pradeep, Pankaj Kumar G, et al., "Intelligent Cloud Load Balancing Using Elephant Herd Optimization." Intelligence in Big Data Technologies-Beyond the Hype. Springer, Singapore, 2020. 267-273.
3. Jayaraj, Jerin, Pankaj Kumar G, et al. "Re-Ranking ODI Batsman Using JJ Metric." Intelligence in Big Data Technologies- Beyond the Hype. Springer, Singapore, 2020. 259-266.
4. Pankaj Kumar G, "Youtube Comment Based Video Ranking System", International Conference on Digital Technologies and Transformation in Academic Libraries, National Institute of Technology, Karnataka
5. Pankaj Kumar G, "Removing Sensitive Private Medias Files From Web Using Block-Chain Technology", National Conference on Blockchain and Smart Contract Technologies (BSCT-2019), National Institute of Technology, Trichy
6. Babu, Ierin, RV Siva Balan, and Paul P. Mathai. "Envisaging the Academic Performance of Students." 2019 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS). IEEE, 2019.
7. Sreeraj, M., Jestin Joy, et al. "VIZIYON: Assistive handheld device for visually challenged." Procedia Computer Science 171 (2020): 2486-2492.
8. Sreeraj, M., Jestin Joy, et al. "CLadron*: AI assisted device for identifying artificially ripened climacteric fruits." Procedia Computer Science 171 (2020): 635 643.



Reading maketh a full man;
conference a ready man; and
writing an exact man.

~ Francis Bacon

DETAILS OF FDP ATTENDED BY FACULTY

Sl no	Name	Title of FDP attended
1	Dr. Jyothish K John	Online Course on Examination Reforms Amazon web services
2	Hema Krishnan	Data Science using Python and R programming Hands on FDP: Data science using Python Recent Trends and Applications of Machine Learning and Deep Learning in IT Web Application Security Wireless Communication Essentials R & D approach to industry 4.0 Machine learning Research and Opportunities Article writing and journal publication Latest trends and challenges in IT industry Deep Learning with tensorflow Emerging trends in computer science- an industrial approach Tips and Tricks of Research publication, Patent filing and research grant
3	Dr. PAUL P MATHAI	Data Science Using Python & R Programming Latex & Scilab Microsoft Azure International Faculty Development Program on Disruptive Technologies titled "Artificial Intelligence in 4th Dimensional Approach" International Faculty Development Program on Disruptive Technologies titled "Tectonic IOT" International Faculty Development Program on Disruptive Technologies titled "Data Analytics & Tools" Innovative Teaching & Learning Methods Research Methodologies: Tools & Techniques Hands on FDP: Data Science using Python Outcome Based Education and Accreditation R & D Approach for Industry 4.0 Tips and Tricks of Research Publications, Patent Filing and Research Grant FDP on Interactive Impactful E-Learning Techniques STTP on Machine Learning and Deep Learning FDP on Virtualization
4	REMYA R	Research Methodology-Tools and Techniques Latest Trends And Challenges In It Industry Article Writing and Journal Publications Machine Learning and Research Opportunities Emerging trends in CS- An industrial approach

5	Anitha T Nair	Research methodology tools and techniques Tips and tricks of Research publication, patent filing and Research grant
6	Preethi N P	Hands on fdp: DataScience using Python
7	Divya John	Web development using JavaScript How to get published in Scientific Journal: From Research to Publication Web development using React JS e Governance Help Desk Cyber Security-2020 Web App development and Hosting using Bootstrap Recent Trends and Applications of Machine Learning and Deep Learning in IT Automation in the world of AI, ML and Data Science Latest Trends and Challenges in IT industry Faculty Development Programme on Emerging Trends in Computer Science -An Industrial Approach" Machine Learning Data Science and Machine Learning using Python
8	Jismy Mathew	R&D approach to industry 4.0 Faculty Development Programme on Emerging Trends in Computer Science -An Industrial Approach"
9	Hansa J Thattil	Research Methodology : Tools and Techniques 5G NR:Next Generation Wireless Access Technology Online workshop on Universal Human Value Latest Trends and Challenges in IT industry
10	Chethna Joy	Research Methodolgy- Tools & Techniques Latest trends and challenges in IT industry Machine Learning and Research Opportunities
11	Lakshmi S	Research Methodology :Tools and Techniques
12	Soumya S Raj	Tips and Tricks of Research Publications, Patent filing and Research Grant Emerging trends in computer science- an industrial approach Latest trends and challenges in IT industry
13	Simi Stephen	"Tips and Tricks of Research Publications, Patent filing and Research Grant" Identifying the Hidden Brain Language and Personality of Others Using Hypnotic Tricks
14	Merin Cherian	Mathematics for datascience Data Science and Machine Learning using Python Machine Learning and Applications
15	Pankaj Kumar G	ICT Tools for Teaching, Learning Process and Institute
16	Jinu Mohan	National Conference held by IES College of Eng., Thrissur,
17	Roshna K I	Workshop on Universal Human Value
18	Siyamol Chirakkarottu	Tips and Tricks of Research Publications, Patent filing and Research Grant Emerging trends in computer science- an industrial approach Latest trends and challenges in IT industry
19	Shimy Joseph	Latest trends and challenges in IT industry Emerging trends in Computer Science- An industrial approach Identifying the hidden brain language and personality of others using hypnotic tricks Article writing and journal publications

STUDENTS ACHIEVEMENT

Rithika Liz Bobby (S4 CSB) has been selected as Best Performer in the International Space Science Competition 2020 through ISSC-2020 (National Level) test conducted by Go4Guru Inc.



The team including Abijith Dileep, Vijayakumar, Aswin Kumar K S, Anagha Zachariah (S8 CSA) got Runner up in 7th national Level Technical project Exhibition & Competition, 2020

Basil Sajeew Areekal (S3 CSA) has secured third prize in the SENTIA competition conducted as part of COGNIZANCE 10.0



Malavika Rajeev (S6 CSB) secured third prize in the event RUNTIME TERROR organized by IEEE SCT SB at Sree Chithira Thirunal college of Engineering, Pappanamcode.

Malavika Rajeev secured third prize in Runtime Error conducted by Computer Society IEEE SCT SB on 14th April 2020.

Malavika Rajeev was selected as best performer in the CODEQUEST contest (Quiz on C Programming) conducted by Department of CSE, Sri Eshwar College of Engineering, Chennai. On August 8th 2020.



Anagha Jayaraj (S5 CSA) secured first prize for the event MINDBEND conducted by Muthoot Institute of Science and Technology.



Rejani Rajesh (S5 CSB) and Adarsh Ajit (S7 CSEB) stood winners for "WEEK OF CODING" conducted by Center for Cyber Innovation FISAT.



R Vysakh (S7 CSB) was recognised as an awesome mentor in the ORE program of IEEE Kocchi Hub. He was also a mentor for App Development in the Outreach For Resources in Engineering Program conducted by IEEE Kocchi during August-November 2020.



Sreelakshmi Vinod (S1 CSEB) Hritwik N E (S3 CSEA) have passed the Qualifier Exam conducted by IIT Madras for its online B.Sc in Programming and Data Science.



Nandini Menon (S8 CSB) completed her internship in CommVault Systems Pvt Ltd for 2 months

FISAT Systems Updated with cutting edge cloud Technologies

FISAT has been acquired 3 new servers as part of expanding the cloud infrastructure to enable load balancing of our intranet services that includes intranet, academic, office, accounts, authentication and cloud. The department of CSE is very happy to inform you that we are using the latest cutting edge cloud technologies including sever virtualization, micro service virtualization and orchestration.

Congratulations

Department of CSE stood top 5 among all the engineering colleges under KTU for Semester 1 B.Tech with a result of 81.8 % result for the 2019 admission year batch.

Paper Presentations by Students

Anjana lakshmi, Athira C H, Anamika L S & Alaikha P V presented paper "Survey on Novel Image Enhancement Techniques" in international Colloquium on Recent Trends in Engineering, 2020

S Krishna Bhat presented a paper titled "SRL Video Recommender for Syllabus Driven E-Learning Platforms" for Virtual International Conference Futuristic Communication And Networking Technologies on November, 2020

P Sunitha, Pooja Susan Korah and Therus Martin presented a paper titled "Dynamic Multi-Heuristic A-star approach for Optimal Map Navigation" in the International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS'20) organized by Department of Electronics and Communication Engineering, Adi Shankara Institute of Engineering and Technology during May 28th to 30th, 2020



While the KTU Average Pass Percentage among all engineering colleges for CSE 2016 admission stood at 52.64, FISAT CSE Department secured 74.1% .



Maria Sajan (S7 CSB) qualified for the second round of National Engineering Olympiad 3.0 with rank 87 conducted by NEO Foundation



Mohammed Hashim (S7 CSB) has secured First prize in the Lol.code (coding contest) hosted by IEEE Student Branch, RSET as part of IEEE Kochi Hub Inter Student Branch Cluster Competition

EXTRA CURRICULAR ACTIVITIES



FISAT won the RUNNER-UP Trophy of the all Kerala Professors Cricket tournament "Cape Cupe" held at Govt Engineering College, Trikaripur, Kasargod in January 2020. Mr. Anuranj of CSE department was the captain of the team and he was also awarded the man of the match in the Semi finals.



The team including Swathy S(S8 CSB) Visrutha Arundathi, Sona Grace John (S6 CSB) Anagha S, Honey Mariyam Babu(S4 CSA), Ananya T Ajit (S2 CSA) bagged Volleyball champions held at "Mar

Athanasius Ever Rolling Trophy" held on 9th March, 2020.

The team including Swathy S(S8 CSB) Visrutha Arundathi, Sona Grace John (S6 CSB) Anagha S, Honey Mariyam Babu (S4 CSA), Ananya T Ajit (S2 CSEA) bagged KTU DZone champions held at MA College Kothamangalam.

The team including Visrutha Arundathi, Sona Grace John(S6 CSB) Anagha S, Honey Mariyam Babu(S4 CSA), Annanya T Ajit (S2 CSA) bagged the championship for "Strike 3 NIT Volleyball Tournament" held on 12th January 2020 as part of "RAGAM" Fest, 2020

Congrats to Ananya T Jith (S2 CSA)

>> Secured Gold medal in the KTU Athletics Meet for shot put women with meet record

>> Gold medal for KTU Athletics Meet for discus throw women with meet record

>> 1st price for MA College Volleyball Championship

>> 1st price for volleyball championship at NIT Calicut as part of RAGAM Fest.



Congrats to Don Sebastin (S4 CSA)

❖ Third prize in "One Step Bunch" competition held in connection with GURUTWA 2020 organized by SNMIMT Engineering College, Maliankara on 20th February 2020.

❖ The team including Don Sebastin secured first prize in "Group Dance" held in connection with Intercollegiate Fest INGENIO 2K20 organized by Ilahia College of Engineering, Muvattupuzha on 11th February, 2020.



The team including Ajay Diji, Joe J Meleth, (S6 CSA), Sunny Joseph Saju (S4 CSB) Ajin, Ashlin (S2 CSA) secured second prize

for basketball tournament held at NIT Calicut, AMRITA COLLEGE KOLLAM and SAINTGITS KOTTAYAM

Ajin (S2 CSA) also represented KTU in ALL INDIA INTER UNIVERSITY NETBALL COMPETITION held at CALICUT



- ❖ The team including Don Sebastin secured first prize in "Samanvaya: Group Dance Competition" in connection with Royal Albertian Fest 2020 organized by St Albert's College, Ernakulam on 24th January, 2020.
- ❖ The team including Don Sebastin secured first prize in "Step up: Group Dance Competition" organized by the Department of English, St. Peter's College, Kolenchery on 23 January, 2020.
- ❖ The team including Don Sebastin secured first prize in "Group Dance Competition" held in connection with COMHAR20 organized by SH school of communication, Thevara.
- ❖ The team including Don Sebastin secured third prize in "Group Dance Competition" in connection with Advaya2020 organized by Govt Engineering College Idukki on 22nd February, 2020.
- ❖ The team including Don Sebastin secured second prize in "Group Dance Competition" in connection with Resonance2020 organized by Naipunnya Business School, Karukutty on 14th January, 2020

COGNITIVE COMPUTING RESEARCH CENTRE (CCRC)

The Cognitive Computing Research Centre (CCRC) established in 2019 under the Department of CSE, FISAT, aims at developing high quality research work and analysis among the students. The area of research includes machine learning, decision making in computation games, reasoning, natural language processing, speech recognition and vision, human-computer interaction, dialogue and narrative generation etc. The centre will act as a platform where the students can collaborate and conduct research work. The centre also aims to provide necessary support for the students for converting their research work into minimum viable products and patents.



Congrats to CCRC Team



Special appreciation to Mr Pankaj Kumar G for his esteemed leadership in mentoring and guiding the students for doing various projects under CCRC.

Shemin Anto, S Krishna Bhat, Keerthana Krishnakumar, Sherin Shaju, Narayanan V Eswar and Pankaj Kumar G won best paper award for the paper- "Sustainable and Collaborative Automated Farming Technology with LoRa" at NCECC-2020: National Conference on Electronics, Communication and Computation, NIT, JAMSHEDPUR.

Saurav N S, Rishad P, Liya Laiju and Narayanan V Eswar won the second runner-up award at "Hackmania 3.0", a south India level Hackathon organized by PES College of Engineering, Mandya in Association with and supported by Binghamton University of New York, New York, USA and Uma Nath Singh Institute of Engineering & Technology, Jaunpur, UP

Aswin Kumar S, Dileep Vijayakumar, Abijith Pradeep & Anagha Zachariah C won Runners Up Award\ for the project titled "Third-Eye" in SRISHTI 2020 | 7th National Level Technical Project Exhibition

Shemin Anto, S Krishna Bhat, Narayanan V Eswar, Shreyas S Kumar, Naigal Roy, Nihal Ansar and Pankaj Kumar G cleared the ideation phase of the KSUM Ideathon, November, 2020

Received Project Financial Assistance

Cognition Inspired Key Frame Extraction

Agency: Kerala State Council for Science, Technology and Environment

The team Linda Joy, Maria Sajjan, Saurav NS, Liya Laiju & Rishad P under the guidance of Mr Pankaj Kumar G

Intelligent E-learning Platform With Automatic Multilingual Support and Gamification.

Agency: Kerala State Council for Science, Technology and Environment

The team Anagha Zachariah C, Aswin Kumar K.S, Dileep Vijayakumar, Paul Antony & Jerin Jayaraj under the guidance of Mr Pankaj Kumar G

Publications

- ♦ "C Anagha Zachariah; Angel Louis; G Pankaj Kumar; Gautam Balamurali; Anjo Martin; " Checkers Using Reinforcement Learning, International Colloquium on Recent Trends in Engineering (IC@MACE), 2020.
- ♦ "S Krishna Bhat; G Pankaj Kumar; " Smart Pedestrian Assistance System, 6th National conference on Advanced computing and communication technology, 2020.
- ♦ "Liya Laiju; N S Saurav; P Rishad; S Krishna Bhat; G Pankaj Kumar; " SRL Video Recommender for Syllabus Driven E-learning platform, Virtual International Conference on Futuristic Communication and Network Technologies, 2020.
- ♦ "S Krishna Bhat; Keerthana Krishnakumar; Sherin Shaju; G Pankaj Kumar; " Enhancing Effectivity of Automated Irrigation System Using Fuzzy Logic, International Conference on Computational Sciences-Modelling Computing and Soft Computing (CSMCS 2020), 2020.
- ♦ "Linda Joy; Maria Sajan; Narayanan V Eswar; Shemin Anto; G Pankaj Kumar; " A Novel Method for Image Steganography with Polynomial Equations, International Colloquium on Recent Trends in Engineering (IC@MACE), 2020.
- ♦ "P Sunitha; Therus Martin; Pooja Susan Korah; Abijith Pradeep; G Pankaj Kumar; " Dynamic Multi-Heuristic A-star Approach for Optimal Map Navigation, International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS20), 2020.
- ♦ "Abijith Pradeep; K S Aswin Kumar; Raphael Sunny Allen; Dileep Vijayakumar; Paul Antony; G Pankaj Kumar; " Intelligent Cloud Load Balancing Using Elephant Herd Optimization, Intelligence in Big Data Technologies—Beyond the Hype, Springer, Singapore, 267--273, 2020.
- ♦ "S Krishna Bhat; N S Saurav; P Rishad; Liya Laiju; G Pankaj Kumar; " Progressive CV Recommendation System based on KNN algorithm, Virtual International Transdisciplinary Conference (VITC-2020), 2020.
- ♦ "P Rishad; N S Saurav; Liya Laiju; Jerin Jayaraj; G Pankaj Kumar; " Application of Fuzzy Logic in Video Recommendation System for Syllabus Driven E-Learning Platform, International Conference on Computational Sciences- Modelling Computing and Soft Computing (CSMCS 2020), 2020.
- ♦ "S Krishna Bhat; Shemin Anto; Narayanan V Eswar; Shreyas S Kumar; G Pankaj Kumar; " Interactive Workbook for Effective Virtual Laboratories, 3rd International Conference on Information Systems and Management Science (ISMS 2020), Malta, 2020.
- ♦ "G Pankaj Kumar; C Anagha Zachariah; D R Umesh; M N Arun Kumar; " CloudStore: A Framework for Developing Progressive Streaming Games, Intelligence in Big Data Technologies—Beyond the Hype, Springer, Singapore, 291--296, 2020.
- ♦ "Jerin Jayaraj; Maria Sajan; Linda Joy; Narayanan V Eswar; G Pankaj Kumar; " Re-Ranking ODI Batsman Using JJ Metric, Intelligence in Big Data Technologies—Beyond the Hype, Springer, Singapore, 259--266, 2020.
- ♦ "Linda Joy; Maria Sajan; Narayanan V Eswar; Shemin Anto; G Pankaj Kumar; " A Review on visualization based model understanding techniques, International Colloquium on Recent Trends in Engineering (IC@MACE), 2020.
- ♦ "Shemin Anto; S Krishna Bhat; Keerthana Krishnakumar; Sherin Shaju; Narayanan V Eswar; G Pankaj Kumar; "Sustainable and Collaborative Automated Farming Technology with LoRa, National Conference on Electronics, Communication and Computation, NIT Jamshedpur, 2020.
- ♦ "Keerthana Krishnakumar; S Krishna Bhat; Sherin Shaju; G Pankaj Kumar; " A Survey on Object Recognition Techniques, International Colloquium on Recent Trends in Engineering (IC@MACE), 2020.

Events Organized

S Krishna Bhat, Shemin Anto, Narayanan V Eswar, Shreyas S Kumar and Pankaj Kumar G conducted the 1st Hacktoberfest Meetup 2020 at FISAT, Angamaly on the 11th of October 2020 as part of the International Annual Hacktoberfest Challenge, as an effort to introduce and encourage students to take part in FOSS activities and contribute to open source projects.

ACADEMIC TOPPERS

First Year(2019 Admission Year)

9.47



Swetha Rajeev

9.32



Emmanuel Jojy

9.32



Angel Shaju

9.26



Sivada K M

Second Year(2018 Admission Year)

9.39



Ritika Liz Bobby

9.38



Arunima Raj

9.33



Athulya K B

Third Year(2017 Admission Year)

9.04



Devu R Kurup

8.98



Visrutha A R

8.74



Keerthana K

Final Year (2016 Admission Year)

9.13



Nousheen S

9.06



Gayathry S

9.04



Swathi S

9.04



Anjana Lakshmi



Gate Qualified Students (2016-2020 Batch)



Anjana Lakshmi
S8 CSE A



Anush S
S8 CSE A

M. Tech CSIS

9.21



Ameesha P K

AlumSpeaks



Deepak Venugopal
Global Head - Digital Data and Visualization, DIAGEO

Though colleges are typically meant to be a knowledge powerhouse, FISAT goes much beyond. At FISAT too, education does come first. However, arts, creativity

and sports also stand tall, at the core of the values at our college. I fondly remember those days when my professors at CSE department happily volunteered to spend extra time with a few of us, taking evening classes to make up for the days we could not attend regular classes due to a cultural event. The CSE department in particular and FISAT in general will always remain as a strong foundation of my personal and professional growth.



Sreelakshmi S
Software Development Engineer, Tata Consultancy Services

The Computer Science Department of FISAT is an amalgamation of learning, fun, culture, literature and much more.

This prepared me for every facet of software engineering within industry. The program perfectly blends theory with practical experience and provides a strong focus on team collaboration in courses. The curriculum is remarkably constructed so that students get exposed to most of the major areas of computing and are able to apply their learning immediately. The faculty members with whom I had a chance to interact genuinely cared about the quality of education and were dedicated to seeing students succeed. This department indeed provided me a strong foundation that allowed a well-rounded development from a curious student to a confident professional. I would like to express my heartfelt gratitude to the entire department for playing such an incredible and important portion of my career and will be indebted forever.

Himi Elizabeth Mathew
Team Lead Accenture



I was a BTech Computer science student in Fisat during the year 2004-2008. It was the 3rd Engineering batch of Fisat. My college days were the most memorable moments in my life where I have enjoyed a lot. It is one among the best self financing engineering colleges with a beautiful campus & best faculties - both teaching & non teaching staff. I would always recommend the college to others with the list of opportunities college had given me in the form of campus placements, personality development classes, multiple sessions to prepare & practise aptitude and other requirements for campus recruitment. It also gave a wide opportunity to showcase extra curricular talents. Proudly speaking I was blessed with an IT job offer in a multinational company during my 5th semester itself, with which i kick started my professional life soon after course completion. At this moment, I would like to thank my college & teachers for helping & moulding me to pitch into a wonderful world of IT and my career ahead.



Alosious Babu
Software Engineer, Microsoft R&D Pvt Ltd, Bangalore, India

FISAT had done a splendid job by inculcating the ability in me to learn and build the strong foundational knowledge.

I am very thankful to the faculty that gave me the knowledge and confidence and has brought a new dimension into my life to achieve a successful career. 4 years at FISAT gave me a lot of exposure and opportunities. FISAT provides immense support for student research and extracurricular activities which helps students to have an edge over others.

PLACEMENTS

Name	Company
Aathira Satheesh Nair	IBS, TCS, Dexlock
Abhirami G	Wipro, Quest Global
Abijith P	Bigbinary
Ahammed Razal Kapil	Qburst
Aiswarya Gopakumar	TCS, CTS, IBS
Aiswarya K A	TCS
Aiswarya Santosh	Sutherland
Ajish Antony	Qburst
Alice Jobi	IBS
Amal Alby	Wipro
Amita Ajay	TCS
Anagha K	IBS, TCS
Anamika L S	IBS
Anila Agnes Sheo	TCS
Anjana A Lakshmi	TCS, IBS
Anush S	Carestack, TCS
Aparna T M	TCS
Arjun Shaji	Mindtree, Wipro
Arun Raju	US Technology
Ashika Varghese	Sutherland
Ashwini Harikumar	Sutherland
Aswin Kumar K S	TCS- Digital, Bigbinary
Athira C H	CTS, TCS
Babitha Raju	TCS
Becky Ebby George	Sutherland
Bryan Davis	Bigbinary
Dileep Vijayakumar	EY, TCS- Digital, Bigbinary
Diya Ann V Alias	CTS, Wipro
Diya Merin Sunny	TCS, SOTI, IBS
Don Paul Jolly	TCS, Kalkitech
Dony Doshy	TCS
Elizabeth Josy	IBS, TCS
Fathima Salim	TCS
Gautam Balamurali	Gadgeon, CTS, IBS, Wipro
Gayathry S	TCS, IBS
Gokul Babu	TCS, KeyValue
Gopika Raj K	US Technology
Harikrishnan Menon	Neudesic
Hridya Soman	Hexaware
Jerin Jayaraj	TCS, Dexlock, CTS
Jill Antony	IBS, Qburst
Jishnu S Prasad	TCS, Ruby Seven Studios
Job Jacob	TCS, EY

Joyal Thomas	Dexlock
Judith George Joseph	TCS, Travancore Analytics
Kavya Venugopalan	Wipro, TCS, CTS
Kevin Jose	Sutherland
Leo Varghese	Dexlock
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Mamitha Muraleedharan	CTS, Dexlock
Meleesha Tresa Paul	TCS
Mohammed Zeeshan	Neudesic, Acsia Technologies
Mohit Rajan E	Bigbinary
Nandini Menon	Bigbinary, TCS-Digital, Commvault, TCS
Neeraj Krishna M S	Sutherland
Nitha Maria Shaju	TCS, CTS
Nousheen Sultana	TCS, EY, SAP, IBS
Paul Antony	TCS- Digital
Pooja Biju M	Wipro
Pooja Jayakumar	TCS, IBS
Pooja Sivakumar	TCS, KeyValue
Prasanth P M	Travancore Analytics
Raman K P	TCS, CTS
Ranjith R K	TCS, SOTI
Rinu Rahim	Quest Global, TCS
Risana Rahim	TCS
Riya Alexander	Sutherland
Riya Jose	Poornam
Saira Sajeer	TCS, Dexlock
Sandeep Remesh	G10x India Pvt Ltd, US Technology
Sanjay Govind P	Sutherland, Innovature Software Labs
Saranya Ashok	Quest Global
Shijas Muhammed T P	US Technology
Shreya Kulangara	Dexlock
Silpa M Kuriakose	TCS, KeyValue
Sneha Anna Joshy	US Technology, Poornam, CSS Corp
Sreelakshmi Pradeep	Poornam
Sreerag O B	Travancore Analytics, IBS, Speridian
Swathi S	TCS, KeyValue
Swathi Sreekumar	TCS, IBS
Tania Susan Sajeer	Sutherland
Tara Jose	Sutherland
Teena John	Dexlock, Qburst, TCS, IBS
Varsha George	TCS- Digital, Ruby Seven Studios
Varsha Rajan	US Technology, Ruby Seven Studios
Yedhin Kizhakkethara	Bigbinary, EY, TCS
Zacharia Joshy	CTS

CSE TEAM



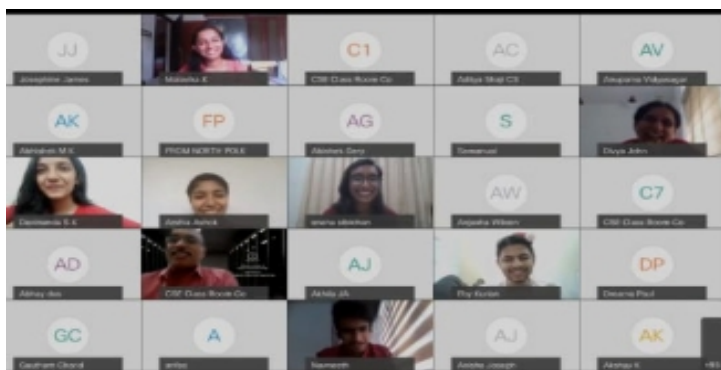
Online X'mas Celebration

An overlook, to the grand "Festive Fiesta", a well - organized online programme by the S1 CSE students of FISAT. Even with the limitations by the Covid-19 pandemic, all the students participated with utmost dedication and optimism, and being well co-ordinated, online Christmas never felt any less celebrated.



Congrats Mr. Akash Menon

Manchester United and Arsenal legend Robin Van Persie gifted Aakash Menon (S7 CSB) a pair of signed boots worn by him. Dutch star conducted a competition through his instagram profile for which Aakash Menon who is a big fan of the player happened to win. And as a gift Robin Van Persie himself congratulated him and send him the boots as a gift.



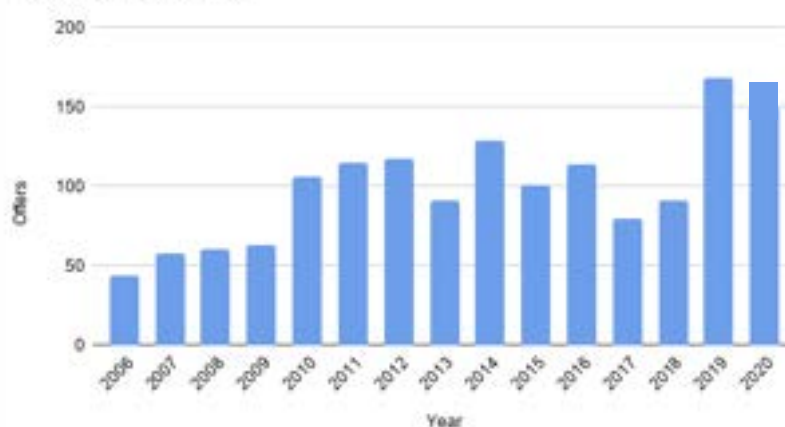
Programs included individual and group music and dances, a variety of online games, also a really good session along with Dr Prasad J C, HOD CSE department and the faculty members of the CSE department.

PLACEMENTS IN CSE



With the biggest number of placements among self-financing engineering colleges in Kerala, Computer Science Engineering students are highly regarded by IT companies. FISAT has an active placement cell to engage with companies and helps students in finding right companies for them. Quality academic projects, focus on internships, seminars/workshops on latest technologies organized by the CSE department are rated as excellent by the recruiters. Every student is made to go through a series of soft skill and technical skill enhancement training programs during their course for nearly 100+ hours.

Placement Statistics



THE
EDITORIAL
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