



NEWSLETTER

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DEPARTMENT VISION

To acquire global excellence in the field of Computer Science and Engineering, nurturing in professionals, technical competence, innovative skills, professional ethics and social commitment.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

DEPARTMENT MISSION

- To equip students with a strong foundation in the area of Computer Science and Engineering using effective teaching-learning practices.
- To provide state-of-the-art infrastructure to suit academic, industry and research needs at the global level.
- To engage students and faculty in interdisciplinary research that promotes innovative ideas for sustainable development.
- To incorporate skill enhancement programmes for students and faculty to cope with the contemporary developments in technology.
- To inculcate effective communication skills, professional ethics and social commitment among professionals through value added programs.

TOC H INSTITUTE OF SCIENCE & TECHNOLOGY

Arakkunnam PO, PIN 682313, Ernakulam District, Kerala
Tel: 0484 2748388, 2749600, 2749393, Fax: 0484 2748388

Email: mail@tistcochin.edu.in Web: www.tistcochin.edu.in



PROGRAM OUTCOMES

Graduates in Computer Science & Engineering discipline will attain the ability:

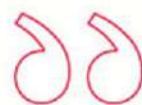
- 1 To apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2 To identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3 To design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4 To use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5 To create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- 6 To apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7 To understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8 To apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9 To function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10 To communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11 To demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12 To recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)



Graduates of Computer Science & Engineering shall

1. Evolve as globally competent computer professionals, researchers and entrepreneurs possessing collaborative and leadership skills, for developing innovative solutions in multidisciplinary domains.
2. Excel as socially committed computer engineers having mutual respect, effective communication skills, high ethical values and empathy for the needs of society.
3. Involve in lifelong learning to foster the sustainable development in the emerging areas of technology.



PROGRAM SPECIFIC OUTCOMES (PSO)



Student of the Computer Science and Engineering program will:

PSO1: Professional Skills: Attain the ability to design and develop hardware and software based systems, evaluate and recognize potential risks and provide creative solutions.

PSO2: Successful Career and Entrepreneurship: Gain knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.





CSI NATIONAL AWARD BEST ACTIVE STUDENT BRANCH

Toc H CSI Student Branch has been bestowed with the prestigious National level recognition from CSI, the "Best Active Student Branch Award 2014-'15" for the fourth time in a row. The institute has a very active student wing, which organizes several programs like international conferences, intercollegiate competitions, technical sessions and workshops which help improve the technical and leadership skills of students. The award was presented at the CSI National Student Convention held at Panimalar Engineering College, Chennai on 19th March 2016. Smt. Sreela Sreedhar, HOD, Dept. of CSE, received the award from Mr. Vinod Venkateswaran, Associate VP, Aricent.



RESULTS & PLACEMENT

B.TECH RESULTS

72% pass with 8 distinctions and 35 first classes in the B.Tech Degree Examination, April 2016.

PLACEMENTS

- 75% of the eligible students of B.Tech 2012-'16 batch got placed in various reputed companies like Infosys, UST Global, etc.
- 16% students registered for higher studies.

M.TECH RESULTS

100% pass with 22 distinctions in the M.Tech Degree Examination, May 2015.

GATE QUALIFIED

- Sreeram S
- Jaijo John
- Sudhanya M S

CUSAT 1st RANK

M . Tech 2015



Ms. ANUSREE P secured 1st rank with CGPA 9.56 in the CUSAT M.Tech Computer Science (Data Security), Examination, May 2015.

Ms. Anju Paul secured 2nd Rank with CGPA 9.47 and **Ms. Shyama Nair** secured 3rd Rank with CGPA 9.33.

CUSAT 1st RANK

M . Tech 2016



Ms. MAHIMA MARY MATHEWS secured 1st rank with CGPA 9.6 in the CUSAT M.Tech Computer Science (Data Security), Exam, May 2016.



Ms. Shilpa Shaju
2nd Rank (9.56)



Ms. Vandana Purushothaman
3rd Rank (9.49)

TOPPERS B. TECH CSE



Ms. Sukanya Radhakrishnan secured 1st position (CGPA 8.79) in B.Tech Computer Science and Engineering, April 2016.



Ms. Sreejisha B
2nd Position (8.62)



Ms. Krishnaja U
3rd Position (8.6)

NOTABLE STUDENTS' ACCOMPLISHMENTS

**ALAPPUZHA DISTRICT POLICE WEBSITE DEVELOPMENT:**

Mahima Mary Mathews of M.Tech Data Security (2014-'16 batch) assisted Alappuzha District Police in developing their website.

'STAR INTERNS' AT DIY HACKING:

V Mohammed Ibrahim, Ashish Alex and Vishnu Prakash (2013-'17 batch) were recognised as 'STAR Interns' at DIY Hacking for their experiments in developing an 'Arduino Obstacle Avoiding Robot'. Their tutorial got listed in DIY Hacking website as the 'The Best Tutorial to Build your First Arduino Robot'.



HOME LEARN E



THE BEST TUTORIAL TO BUILD YOUR FIRST ARDUINO ROBOT

From our STAR Interns: Mohammed Ibrahim, Ashish Alex, Emil George, Vishnu Prakash, Akshay James



STAR Interns at DIY Hacking: Mohammed Ibrahim, Ashish Alex, Emil George, Vishnu Prakash, Akshay James. They strive to bring forth innovations that will benefit the society and focus on learning by doing. Contact: ibrahimjkd@gmail.com

ICTAK TECHATHLON – STATE LEVEL 2nd PRIZE:

V Mohammed Ibrahim (2013-'17 batch) along with three TISTians won the regional level 1st prize in the ICTAK Techathlon competition 2015-'16 conducted on 16th January 2016 at Adi Shankara Institute of Science and Technology. They secured second prize with a cash prize of Rs. 50,000, sponsored by Kerala Startup Mission, in the state level round held at Technopark, Trivandrum on 28th January 2016.

**OPEN HYBRID WORKSHOP AT 'MAKER MELA':**

V Mohammed Ibrahim, Ashish Alex and Vishnu Prakash (2013-'17 batch) conducted a workshop on 'Open Hybrid' at the Nation-wide Maker Movement event, Maker Mela, an initiative of Somaiya Vidyavihar on 11th October 2015. They were one of the top 50 workshop exhibitors across India.

TECHNOPRENEUR 2016 – 1st PRIZE in 'MOCK MARKETING PITCH':

Jaijo John (2012-'16 batch), Siddharth Prajosh C (2014-'18 batch), Sreehari N P and Winu Kavanal (2015-'19 batch) won first prize in 'Mock Marketing Pitch' conducted as a part of Technopreneur 2016, a techno managerial symposium organised by IEDC and Kerala Start up Mission at Govt. Model Engineering College, Kochi on 5th and 6th March 2016.

**ROBOTRYST 2016 – ZONAL WINNERS:**

Siddharth Prajosh C, Saurav Mohan V, Sony Sebastian, Thomas Biju and Manju Mohan (2014-'18 batch) secured second position in the zonal round of RoboTryst 2016 competition organized by Robosapiens Technologies Pvt. Ltd. on 5th & 6th October 2015 at TIST. They represented TIST in the Grand Finale at IIT Delhi.

FACULTY ACHIEVEMENTS

REGISTERED FOR PH.D

Mr. Abin Oommen Philip, Assistant Professor, Dept. of CSE, registered for Ph. D at VIT Vellore in 2015-'16



Mr. Anuraj C K, Assistant Professor, Dept. of CSE registered for Ph. D at CUSAT in 2015-'16

CO-CURRICULAR

- R Adithya Naik, Vishnu Shenoy, Jerin A Mathews and Rejsal T Basheer (2012-'16 batch) secured first prize for 4x120 coding competition in 'Excel' held at Model Engineering College, Thrikakkara on 17th September 2015.
- Devender Gupta (2013-'17 batch) won first prize in Game Zone in 'Excel' held at Model Engineering College, Thrikakkara on 17th September 2015.
- Godson Raju, Devender Gupta and Ashok B (2013-'17 batch) bagged first position for LAN Gaming in 'Aswamedha 2015' held at Adi Shankara Institute of Engineering and Technology, Kalady on 3rd October 2015.
- Devender Gupta (2013-'17 batch) secured second prize in Jogos (Group Gaming) competition in 'Enero 2K16' held at Chinmaya Vidyapeet, Ernakulam on 20th January 2016.
- Aiswarya S Warriar and Abraham Solomon (2013-'17 batch) got selected for IIT Cloud Computing Grand Finale from the zonal round of Cloud Computing Championship held at TIST on 21st and 22nd January 2016.
- Siddharth Prajosh C and Saurav V Mohan (2014-'18 batch) won third prize for Open Source Olympiad (quiz+coding) conducted as a part of TechFOSS 2K16 at TIST, Arakkunnam on 11th February 2016.
- Devender Gupta and Kevin Thomas (2013-'17 batch) won first prize in Counter Strike in 'Tech FOSS 2k16' held at TIST on 11th February 2016.
- Devender Gupta and Kevin Thomas (2013-'17 batch) won first prize and second prize respectively, for Counter Strike in 'Spectre 2k16' held at KMEA college of Arts and Science on 16th February 2016.
- Siddharth Prajosh C (2014-'18 batch) secured first prize in the Techcon competition of 'FuGeniz 6' at SNGCE, Kadayiruppu on 18th and 19th February 2016.
- Kevin Thomas (2014-'18 batch) secured first prize in Lanparty competition of 'FuGeniz 6' at SNGCE, Kadayiruppu on 18th and 19th February 2016.
- Muhammed Ashique Kuthini (2015-'19 batch) secured second prize in web designing contest conducted as a part of Advay 2016 at TIST, Arakkunnam on 23rd & 24th of February.
- Muhammed Ashique Kuthini (2015-'19 batch) got selected as the student representative from Toc H to KSUM (Kerala Startup Mission).

ARTS & SPORTS

- Jerin A Mathews (2012-'16 batch) and Alex Paul (2014-'18 batch) were the members of TIST Basketball Team which won the first position in the CUSAT Basketball Tournament in January 2016.



- Shoukath Ali M and Zahid Hussain K P (2012-'16 batch) were the members of the college Football Team which won the second position in the CUSAT Football Tournament in January 2016.
- Meenakshi Suresh (2012-'16 batch) secured second prize in 'Voice of Advay' competition in Advay 2016 held at TIST on 23rd and 24th February 2016.



- Amal Santhosh (2013-'17 batch) secured first prize in Dance competitions at College of Engineering, Kidangoor, Christ Knowledge City, Bharatha Matha College Thrikkakkara and MACFAST, Thiruvalla in January-February 2016. He is a member of the college dance team which secured first prize for Dance Competitions in various College Cultural festivals across Kerala.

HAPPY AND COLORFUL MOMENTS

- Ms. Smitha P K was blessed with a baby boy on 29th September 2015.
- Ms. Ceira Sara Cherian was blessed with a baby boy on 7th November 2015.
- Mr. Gokul Kishan married Ms. Vrinda Namboodiri on 15th November 2015.
- Mr. Anuraj C K was blessed with a baby boy on 19th January 2016.

HEARTY WELCOME

Dr. Varghese Paul (Dean, CSE & IT)

BID FAREWELL

- Ms. Mintu Philip (Assistant Professor)
- Mr. Gokul Kishan (Assistant Professor)

CSAT & CSI STUDENT BRANCH ACTIVITIES:

LAUNCH OF CSAT & CSI ACTIVITIES 2015-'16:

The launch of activities of CSAT – Computer Science and Engineering Student's Association and CSI Student Branch of Toc H Institute of Science & Technology for the academic year 2015-'16 was inaugurated on 7th August 2015, by Mr. Lepeesh Parat, Managing Director, Zesty Beanz Technologies (India, UAE, Germany). The function was presided over by Er. C S Varghese, President, Toc H Public School Society. The inaugural ceremony was followed with a technical interaction session with Mr. Lepeesh, who is also the winner of Swami Vivekanandha Yuva Prathibha Award. He shared his experiences as an entrepreneur and explained the major turning points in his career timeline. CSAT-CSI Annual newsletter – 'DARPAN 2015' was released during the event.



INTERNATIONAL CONFERENCE - IBICA 2015:

The Departments of CSE and IT conducted the 6th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA) from 16th -18th December 2015. IBICA 2015 aimed at providing a platform for world research leaders and practitioners, to discuss the full spectrum of current theoretical developments, emerging technologies, and innovative applications of Bio-inspired Computing. Mr. P R Ravikumar IRS, Director General of Income Tax (Investigation), inaugurated the conference. The conference was organised in association with Machine Intelligence Research Labs (MIR Labs), USA and VSB-Technical University of Ostrava, Czech Republic. IBICA '15 witnessed the presentation of 40 papers, in different topics like Ant Colony System, Artificial Immune Systems, Artificial Intelligence, DNA Computing, Biomedicine, Bioinformatics, Business Intelligence, Cloud Computing and Robotics, by researchers from India, the US, the UK, Malaysia and the Czech Republic. Dr. Ajith Abraham, Director, MIR Labs, Dr. Philip Samuel, Professor, CUSAT and Mr. Vojtech Uher, Department of CS, VSB-TU of Ostrava, chaired the conference sessions. The proceedings got published in the online journal Springer: Advances in Intelligent Systems and Computing.

The three day conference witnessed expert sessions on:

- "Digital Eco Systems: Role of Bio-Inspired Computing" by Dr. Ajith Abraham, Director, MIR Labs, USA.
- "Cohort Intelligence Algorithm" by Dr. Anand J Kulkarni, Symbiosis International University, Pune.
- "Partitional Hard Clustering Using Evolutionary Computation" by Dr. Pramod Kumar Singh, ABV-Indian Institute of Information Technology and Management, Gwalior.
- "Feature Extraction and Selection Techniques for Pattern Recognition" by Dr. S. Ramakrishnan, Dr. Mahalingam College of Engineering and Technology.



INDIA'S FIRST CLOUD COMPUTING CHAMPIONSHIP

The Department of CSE organised a 2 day workshop on Cloud Computing, which was conducted by IFC3 India and Neuromancers, IIT Bhubaneswar, for B.Tech and M.Tech students, on 21st & 22nd January 2016. Mr. Abhishek Soni from Bangalore was the resource person. The topics covered in the event were cloud computing, cloud computing technologies, cloud computing services, planning and designing IaaS, PaaS and SaaS, implementing and deploying public cloud, community cloud and hybrid cloud, cloud security essentials, amazon web services, google cloud services, microsoft cloud services etc.



SOCIAL AWARENESS SESSION ON CYBER SECURITY

CSE Department, in association with CSI Student Branch organised a one day social awareness session, "Be Net Safe", on 'Information Security and Cyber Threat Awareness' for high school students of St. George High School, Arakkunnam on 18th January 2016. The sessions and live demos on different threat scenarios were handled by M.Tech CS Data Security students, Mahima Mary Mathews, Ranjith R Bhat and Hridya Venugopal, along with Asst. Prof. Elsaba Jacob and Asst. Prof. Mima Manual. The event aimed to create a general awareness among the participants to safeguard themselves from falling victims to cyber crimes and IT frauds.



SOCIAL OUTREACH PROGRAM AS PART OF TOC H CENTENARY CELEBRATIONS:

As part of Toc H Centenary Celebrations, Social Outreach Programs were organized by TIST at various schools across Kerala. Amanda George, Theertha Rajeev, Muhammed Shafeeqe O M, Jishnu G, Adil Monu and Ashwin Prakash of CSE Dept. (2013-'17 batch) visited schools in Wyanad, Malappuram and Kozhikkode.



EMPOWERING HOUSEWIVES IN COMPUTER EDUCATION

Departments of CSE and IT in association with NSS unit and CSI Cochin Chapter, conducted a free two week computer training workshop for the housewives from 23rd May to 3rd June 2016. Hands on training sessions on MS Office and basic Internet were handled by Lab Instructors from CSE and IT departments. Certificates were awarded to the attendees.



'AKSHARA DEEPAM' PROGRAMME AT FATHIMA MATHA HSS, PIRAVOM:

Department of CSE sponsored Mangalam daily for the next academic year, in support for 'Akshara Deepam' programme by Mangalam at Fathima Matha HSS, Piravom. This is an initiative to inculcate reading habits among the young generation. Dr. Varghese Paul, Dean, handed over the copy to student representatives of the school. Asso. Prof. Sreela Sreedhar (HOD) and Asst. Prof. Saira Varghese were present during the event which was held on 20th June, 2016.



MOTIVATIONAL SESSION ON "INDIAN DEFENCE SERVICE & CAREER OPPORTUNITIES FOR ENGINEERING GRADUATES":

An interactive and informative session on "Indian Defence Service & Career Opportunities for Engineering Graduates" was organized on 1st July, 2016 for the benefit of B.Tech students of all branches, who has a passion towards joining IDS. Capt. Aji P Mathew, Army Officer, Raiwala, Uttarakhand was the resource person. He shared his experiences as defence personnel. He also explained the different career opportunities within IDS and gave an overview of the different examinations to be cleared in achieving the same.



NATIONAL OPEN-SOURCE PROMOTION INITIATIVE - TECH FOSS 2K16

The Department of CSE, in association with IEDC (Innovation and Entrepreneurship Development Cell) of TIST and CSI, organized a two day National level intercollegiate technical event 'TECH FOSS 2K16' on 11th & 12th February 2016. This is the fourth time that TIST is organizing an open source promotion initiative. The chief guest, Mr. Andrine Mendez, Founder & Lead Speaker, Frying Pan Academy (A platform for teaching and sharing ideas), delivered the keynote address on 'Entrepreneurship and Innovation'. Mr. Kumaresan, Mozilla India Regional Ambassador, was a special attendee. Er. C S Varghese, President, Dr. K Varghese, Manager, Mr. Prakash George Mathen, Secretary (Toc H Public School Society) and Dr. D Vincent H Wilson, Principal, felicitated the gathering. The launch session was followed by the FOSS Message - "How to contribute to Open Source?" by Mr. Praveen Sridhar, Open Source Evangelist & Mentor at TinkerHub, CUSAT.



ANDROID WORKSHOP

Two day hands on workshop on Android was conducted by Jerin A Mathews and Jishnu Vijayan (2012-'16 batch, IEEE Student Ambassadors). There were 40 external participants from different engineering colleges, polytechnics and arts and science colleges across Kerala. The workshop started with the basics of Android, and proceeded with hands on training on app making. It ended up with a surprise contest 'My First App Challenge'.



MOZILLA MAKER PARTY

The major highlight of Tech FOSS 2k16 was the maker party, where knowledge sharing groups interacted and demonstrated various free and open source tools and software to the interested participants. A special attraction of the event was Master Saarang Sumesh, a 2nd standard boy from Choice School, Tripunithura, who made robotic applications at this young age. The exhibits included projects like Opensource android Custom ROM & Kernal, Obstacle Avoider Rover, Holographic Projector, TAH, Robotic Arm, Google Cardboard, VR Headset, Teleoperated Robotic Arm with Force Feedback (TRAFF) and sessions on topics like Artificial Intelligence - Making a Chatbot, Google Summer of Code and Opportunities in the world of programming, Android Rooting, Netbeans IDE, Wordpress, Quantum Dot, Python, 3D Printing Technology etc. There were more than 500 participants, including 200+ from external colleges and rest from TIST (CSE, IT, EEE, ME, FS and ECE depts.).



ARDUINO WORKSHOP

Two day hands on workshop providing information on 'How to create new useful gadgets and connected devices using Arduino?' was conducted by V Mohammed Ibrahim (2013-'17 batch), Emil M George and Mr. Akshay James (ECE, TIST). It was a live learning experience using robotic kits from DIY Hacking team. There were 50 participants from ECE as well as CSE/IT branches including 23 external participants from other colleges and schools across Kerala, and they found the session immensely useful.



CONTESTS

Two contests and a game zone were also organized. Winners were awarded with certificates and cash prizes.

Open Source Olympiad (Code Debugging and Open Source Quiz) A two level contest where an initial online round tested the participants' code debugging skills. The second round was an open source based quiz.

Mobile App Idea contest – This contest showcased the implemented mobile/system applications as well as implementable ideas that can be built on open source platforms.



Tech FOSS 2k16 witnessed enthusiastic participation from different colleges across Kerala – SOE CUSAT, Rajagiri Kalamassery, Govt. Women's Polytechnic, Trissur, SSV Valayanchirangara, Holykings Pampakuda, Muthoot Varikoly, MEC Trikkakkara, SNGCE Kadayiruppu, MES Malappuram, AISAT Kalady, Viswajyothi Vazhakkulam, FISAT Angamaly, SCMS Karukutty, SIMAT Palakkad, Vidya Academy Trissur, Royal Engineering College Trissur, Chinmaya school etc. The day helped to open a new world of open source to the participants – a freedom trend.



ACADEMIC ADVISORY COMMITTEE

An Academic Advisory Committee comprising of experts from Academics and Industry is constituted to guide the departmental activities in the best way to improve the academic performance of the students and to promote Institute Industry Interaction. The committee consists of TIST Management, Principal, Dean, HOD & faculty members of CSE Department, parents and alumni as internal members. External Academic Experts include Dr. Vineeth Paleri (Professor, Department of CSE, NIT Calicut) and Dr. Varghese Paul (Professor, Department of IT, CUSAT). IT Industry Experts are Mr. Anoop Alex Koshy (Master Trainer, ICTAK & former SPM, Infosys Technologies Ltd.), Mr. Deva Kurian Joseph (Head, Kochi Delivery Center, TCS Digital Enterprise) and Mr. Arlin Varghese (Associate Director-Projects, CTS). The committee meeting reviewed the current academic activities and discussed different measures for continual improvement.



MOU WITH TECHNOLOGDE, THE FIRST RURAL IT PARK IN KERALA

An MoU is signed between the Dept. of CSE and Technolodge (Kerala's first rural IT park), Kakkoor, Piravom, on 11th February, 2016 at Toc H Campus. Dr. K Varghese, Manager, Toc H Public School Society and Ms. Renjini Brite, CEO, Technolodge, signed the MoU for five years. Er. C S Varghese, President, Mr. Prakash George Mathen, Secretary, Dr. D Vincent H Wilson, Principal and Ms. Sreela Sreedhar, HOD-CSE were present during the ceremony. Some activities contemplated through this program include - joint projects, research participation and collaboration, student internships and employment, courses, seminars and workshops etc. The Department also holds MoUs with the following organizations.



- ICTAK
- Oracle Academy
- CDAC
- VSB Technical University, Ostrava, Czech Republic

SESSIONS ORGANISED FOR B.TECH STUDENTS

Placement Training

Three day training program by Prometheus Solutions Pvt. Ltd. was organised from 1st July to 3rd July 2015 for S7 CSE students. The sessions included aptitude training, group discussions and mock interviews.

Employability Enhancement Program

Mr. Sudhevan K J from Indian Institute of Job Training (IIJT) - NSDC Training Partner in Kochi, conducted a session on employment enhancement for S7 students on 8th July 2015.

Latex Workshop

One day workshop on Latex typesetting tool was conducted for S7 students on 10th July 2015 by Asst. Prof. Gokul Kishan of CSE, TIST.

Project Orientation Session based on SDLC

A session on Software Development Life Cycle was organized for S7 students on 22nd July 2015 by Mr. Ebin Tom, Mr. Nithin Thomas and Mr. Kiran H from Focuz Infotech. The topics included the various industrial perspectives of SDLC phases and its requirement in carrying out the project work.

Session on 'How to tackle interviews?'

Mr. Pramod C Menon (Alumni of TIST), Technical Lead, Wipro Technologies delivered a motivational session to S7 students on 'How to tackle interviews?' on 10th September 2015. He gave tips and tricks to tackle interviews, and shared his personal experiences as an interviewer. He urged the students to form various groups within the class, and conduct group discussions and mock interview trainings within themselves.





Aptitude Training by ICTAK

In collaboration with ICTAK, CSE department organized a 3 day aptitude training sessions for S7 students on 22nd, 23rd and 28th September 2015. The sessions were handled by Mr. R Dilip, Mr Gireesh and Mr Prince from ICTAK and it focussed on quantitative ability, English vocabulary and grammar etc. Mock tests were also conducted.

HTML and CSS Workshop

One day workshop on HTML and CSS for the S1 students was conducted on 9th October 2015. The sessions were handled by Jerin A Mathews, Jishnu Vijayan, R Adithya Naik and Vishnu Shenoy of S7 CSE. Sessions included the basics of CSS and HTML along with hands-on training.



Interactive Session

Prof. Dr. P M Khilar, Dept. of CSE, NIT Rourkela interacted with S1 students regarding various engineering aspects on 20th November 2015.

Technical Training on Java Application Development and Project Documentation

Training session on java application development and project documentation was held on 8th December 2015 for S6 students. The session was handled by Mr. Libin P Babu, Mr. Noble Vincent, Ms. Niya Boban and Ms. Liya Pious P from Cyberprism Ltd.

Android Demo

An Android Demo presentation was conducted for S6 students by Mr. Ashpathy P S and Ms. Soumya Mathew from Aaptra Professional Live Training group on 10th December 2015.

Workshop on Java

One day workshop on Java was conducted for S4 CSE Students on 16th December 2015. Mr. Anilkumar of Think Force handled the session, which included core java concepts and hands on training.

Workshop on DB based Projects

One day hands-on workshop on Database based Projects was organised for S6 CSE on 17th December 2015.

Mr. Anilkumar of Think Force handled the session.

SAP training

Training on SAP was conducted for S6 & S8 students by Mr. Bobby Paul of Electro Mech Enterprise on 7th January 2016.

Technical Session on 'The Computing Discipline'

Dr. Vineeth Paleri, Professor, NIT Calicut delivered a session on different Computing Disciplines on 16th January 2016 for S4 & S6 students.

Informative Session regarding Overseas Studies

Ms. Catherine Holderness, University of North California, USA delivered an informative session to the B.Tech students on 22nd January 2016. The session outlined the opportunities for higher studies at University of North California, USA.

Workshop - Cloud Computing Championship

The Department of CSE organised a 2 day workshop on Cloud Computing, which was conducted by IFC3 India and Neuromancers, IIT Bhubaneswar, for B.Tech students, on 21st & 22nd January 2016. Mr. Abhishek Soni from Bangalore was the resource person.

Cyber Threat Awareness Session

An awareness session regarding Information Security and Cyber Crimes was organised for S2 students on 1st February 2016. Mahima Mary Mathews, Ranjith R Bhat and Hridya Venugopal of M.Tech Data Security handled the sessions.

Informative Session regarding Overseas Education

Mr. Cyril Hendrich, Overseas Education Advisor at Graduate Overseas, delivered an informative session regarding the overseas education opportunities on 21st March 2016 to the S8 students.

Informative Session on Opportunities and Contests for CSE students

An informative session on "Opportunities and Contests for CSE students" was organized for S2 students on 13th April 2016.

Motivational Talk on 'Engineering Days and Career'

A motivational talk on 'Engineering days and Career' by Mr. Arjun Pillai, CEO, Profoundis, was conducted on 22nd April 2016 for the S2 students. He shared his experiences as an entrepreneur. Mr. Jofin Joseph also interacted and motivated the students regarding the responsibilities of an engineering graduate and the challenges they have to face.



STTP on HTML, CSS and PHP

Two weeks Short Term Training Program on html, css and php was organised for S3 and S5 students from 20th June to 1st July 2016. Mr. Anilal G, Mr. Shadhab Muhammed, Mr. Shine Joseph, Mr. Josemon Maliakal, Mr. Nibin Paul and Mr. Sooraj E R from Zixent Technologies LLP, Technolodge, handled technical sessions and hands-on sessions.

Placement Training

A two day placement training program was organised for S7 students from 27th to 28th June 2016. The sessions were handled by Mr. R Aditya Naik and Ms. Nisa Johnson (CSE Alumni, 2016 batch). The training included aptitude training and group discussions.



GATE Awareness Session

Mr. Baazil P Thamby from TIME Pvt. Ltd. conducted a motivational session for the B.Tech students regarding the importance of GATE in higher education/job hunting and urged them to acquire the same. S5 and S7 students attended the session on 30th June 2016.

Motivational Talk

A motivational talk and experience sharing session was arranged for S5 CSE on 15th July 2016. Mr. Raphy Varghese, gooseBerry Media, Technolodge, Kakkoor, interacted with the students and shared his experiences. He also briefed on the start up initiatives in Technolodge.



SESSIONS ORGANISED FOR M.TECH STUDENTS

Technical Talk on Data Security and Career Opportunities

Mr. Manoj Chandran, Managing Partner, Triple Hat Security Lab, delivered a session on data security and career opportunities for the M.Tech students on 30th October 2015.



Webinar on Oracle Cloud Services

A webinar session on Oracle Cloud Services was arranged for M.Tech students on 2nd November 2015. The session included Database Cloud Services Overview, Database Backup Cloud Services Overview, Live Demo and Q&A.

Technical Session on Practical Approach to Networking

Mr Ranjith R Bhat and Ms Jisha S of S4 M.Tech CSD, took a session for first year M.tech CSD regarding 'Practical approach to Networking' on 4th November 2015. The session included explanation of basic terms and terminologies regarding networks, live training

on network set up, IP Scanner with RADIUS, and introduction to course details on certified ethical hacking.

Technical Talk on 'Data Security and Research Projects'

Dr. P Uma Maheswari, HOD, Dept. of CSE, Anna University delivered a talk on data security on 20th November 2015 and gave guidelines on how to extend project works to research.

Technical Session on 'Applications of Data Security'

Dr. Varghese Paul, Associate Professor, SOE, CUSAT delivered a session on Application of Data Security for the first year M.Tech students on 20th November 2015.

Guidelines for carrying out Research Project

A session on guidelines for carrying out a research project was conducted for first and second year M. Tech Students. The session was handled by Dr. Varghese Paul, SOE, CUSAT on 6th January 2016.





LATEX Workshop

A 2 day Workshop on LATEX was conducted by Asst. Prof. Gokul Kishan of CSE Department for M Tech Students of CS, IT and EC on 12th and 13th of January 2016.

Workshop - Cloud Computing Championship

The Department of CSE organised a 2 day workshop on Cloud Computing, conducted by IFC3 India and Neuromancers, IIT Bhubaneswar on 21st & 22nd January 2016. Mr. Abhishek Soni from Bangalore was the resource person. M.Tech CSD first year students participated in the event.

Cyber Threat Awareness Session

An awareness session regarding Information Security and Cyber Crimes was organised for S2 M.Tech students on 1st February 2016. Mahima Mary Mathews, Ranjith R Bhat and Hridya Venugopal of M.Tech Data Security handled the sessions.

TRAINING SESSIONS ORGANISED FOR FACULTY

NBA AWARENESS SESSION

The Department of CSE organised a session on "Outcome based Education Criteria" on 5th January 2016 for all the faculty members of TIST, as part of NBA awareness program. Dr. Renumol V G, Associate Professor, Dept. of IT, SOE, CUSAT was the resource person. The session outlined the details on NBA Accreditation preparation process. A Q&A session was also arranged.

FACULTY DEVELOPMENT PROGRAMME ON 'SECURE CLOUD COMPUTING'

The Department of CSE, in association with CSI, conducted five day Faculty Development Programme on 'Secure Cloud Computing' from 13th to 17th June 2016. Ms. Asa John, Cloud Solution Architect, TCS, Kochi inaugurated the programme. The FDP focused on research issues related to cloud security. Expert faculty members from IIITM-K Thiruvananthapuram & other reputed engineering institutions, industrial experts from TCS Cochin and UST Global served as resource persons. Hands-on sessions were also included as part of the FDP. Faculty members, research scholars and PG students from various Engineering colleges all over Kerala attended the programme.

The sessions were as follows:

- "Introduction to Cloud Computing" – Ms. Asa John, Cloud Solution Architect, TCS, Infopark, Kochi.
- "Block Chains & its Application to Cloud Security" - Dr. Tony Thomas, Assistant Professor, IIITM- K, Thiruvananthapuram.
- "Session on Cloud Services (AWS)" – Mr. Krishna Kumar Gopinathan, Cloud Solution Architect, UST Global, Cochin.
- "Research Issues in Cloud" - Dr. Sangeetha Jose, Assistant Professor, Dept. of IT, GEC Idukki
- "Virtualization and Private Cloud" – Mr. Pankaj Kumar G, Assistant Professor, Federal Institute of Science and Technology
- "Cloud Security (Amazon Cloud Services)" – Mr. Shahul Hameed, Fellow at Kerala Startup Mission



FDP on Computer Networks

All faculty from CSE attended 5 day FDP on Computer Networks organized by the Dept. of IT in association with ISTE TIST student chapter from 23rd June to 27th June 2015. Dr. Janet Light, University of New Brunswick, USA was the resource person.

Training Session on Microsoft Saksham IT Champion Training Program

Asst. Prof. Gokul Kishan attended the Microsoft Saksham training which was held at Rajagiri School of Engineering and Technology from 14th to 19th September 2015. The session was organized by KTU in association with Microsoft. Mr. Sandeep Tomar from Microsoft gave training on the advanced features of Microsoft Office utilities that can be utilized in the teaching process.

Workshop on Trusted Systems

Asst. Prof. Gokul Kishan attended the workshop on Trusted Systems: Research & Innovations at College of Engineering, Trivandrum on 12th October 2015. The workshop was jointly organized by APJ Abdul Kalam Technological University and Stevens University, New Jersey, United States.

International Workshop on Cyber Threat Resilience

Asst. Prof. Gokul Kishan attended the International Workshop on 'Cyber Threat Resilience' on 13th October 2015. The aim of the workshop was to bring together industry leaders, government officials and researchers to provide an international forum for sharing, discussing various issues in cyber threat resilience and formulating strategies for creating a cyber threat resilient world.

Faculty Development Programme on Effective Teaching

Asst. Prof. Mintu Philip and Asst. Prof. Anuraj C K attended a one day FDP at TIST on 12th October 2015. There were sessions on Effective Classroom Teaching by Dr. Suresh Manimala, Dean, MBA and on Teaching Learning Process by Dr. D Vincent H Wilson, Principal.

TEQIP Workshop on "Design and Engineering"

Asst. Prof. Gokul Kishan and Asst. Prof. Anuraj C K attended TEQIP Workshop on "Design and Engineering" from 28th December 2015 to 1st January 2016 at College of Engineering, Cherthala. The workshop gave awareness on concept development and concept selection, design and engineering, experiential learning approach - a tool for design engineering, innovation and entrepreneurship on campuses and IoT.

International Launch of Cloud Services

Asso. Prof. Sreela Sreedhar (HOD) attended the International Launch of Cloud Services: Seminar / Webinar on Cloud Computing by OGES iNFOTECH, which was held at Classic Fort, Maradu on 2nd January 2016.

STTP on Cloud Computing and its Applications in Engineering

Asst. Prof. Saira Varghese and Asst. Prof. Panchami V attended a short term training program on Cloud Computing and its Applications held at University College of Engineering, Kariavattom from 17th to 19th February 2016. The sessions were handled by cloud solution experts from academics and industry and a Cloud Data Center visit was also arranged.

Workshop on Big Data Analytics using R

Asst. Prof. Abin Oommen Philip attended a five day National Hands-on workshop on Big Data Analytics using R (NHWBD-16) from 18th to 22nd April 2016 at Saintgits College of Engineering. Dr. S Mahesh Anand, CEO & Chief Consultant, Scientific Computing Solutions, Chennai, was the resource person. The topics covered were role of R in data analytics, statistical and inferential measures using R language, visual analytics, optimization techniques, text analysis using R and integrating hadoop with R.

Workshop on Information Security and Knowledge Management

Asst. Prof. Saira Varghese and Asst. Prof. Elsaba Jacob attended a two day TEQIP workshop on 'Information Security and Knowledge Management with special emphasis on tools and Techniques' from 20th April to 21st April 2016 at CUSAT. Topics discussed included cryptography and its overview, various tools used for cyber security, efficient ways for performing knowledge management, the various tools available for performing the same etc.

Workshop on Python Programming

Asst. Prof. Anuraj C K attended a one day TEQIP workshop on Python Programming from 26th April 2016 at CUSAT. The workshop included talks on "Introduction to Python Programming" and "Advances in Python Programming" and hands-on session.

SAP Training

Asst. Prof. Gokul Kishan and Asst. Prof. Anuraj C K attended SAP ABAP Training from 2nd May to 12th May 2016 at SNGCE, Kadayiruppu, organized by Electro Mech Enterprises on behalf of SAP. The objective of the training was to introduce SAP and ABAP (Advanced Business Application Programming), which is a high-level programming language created by SAP.

CSE FACULTY LEADS TRAININGS INSIDE/OUTSIDE TIST CAMPUS

LATEX WORKSHOP

Asst. Prof. Gokul Kishan conducted workshops on LATEX typesetting tool for different batches of TIST faculty, B.Tech & M.Tech students.

TECHNICAL SESSION ON IP SECURITY

Asst. Prof. Panchami V delivered an expert session on Internet Protocol Security at College of Engineering, Kidangoor on 4th March 2016.

INFOSYS CAMPUS CONNECT

CSE Department successfully conducted Infosys Campus Connect Foundation Program 4.0 sessions for CSE S7 students. Asst. Prof. Abin Oommen Philip (CC Coordinator), Asst. Prof. Gokul Kishan and Asst. Prof. Saira Varghese handled the sessions.

TIST ONLINE REVIEW SYSTEM

Asst. Prof. Gokul Kishan and Ranjith R Bhat (M. Tech 2014-'16 batch) created a website for collecting the feedback of faculty and for generating reports and graphs.

CSE STUDENTS LEADS TRAININGS INSIDE/OUTSIDE TIST CAMPUS

ARDUINO WORKSHOP AT SCHOOLS

V Muhammed Ibrahim (2013-'17 batch) conducted a one day workshop on Arduino for School students on 26th December 2015 in association with DIYHacking. He has also conducted Arduino workshop for TechFOSS at TIST.

INDIA ELECTRONICS WEEK

V Muhammed Ibrahim (2013-'17 batch) attended India Electronics Week as a speaker from 11th to 13th January 2016.

ANDROID, PYTHON, HTML/CSS

Jerin A Mathews, Jishnu Vijayan, R Aditya Naik and Vishnu Shenoy (2012-'16 batch) handled different workshops in Android, Python and HTML/CSS for TIST students.

CYBER SECURITY AWARENESS

Mahima Mary Mathews (M.tech 2014-'16 batch) conducted an awareness session on Cyber Security at St. Michael's College Alappuzha, along with Alappuzha Cyber Cell, in November 2015.

LATEX WORKSHOP

Ranjith R Bhat (M.tech 2014-'16 batch) conducted workshops on LATEX typesetting tool for different batches of TIST faculty, B.Tech & M.Tech students.



STUDENT PARTICIPATIONS - B.TECH

TRAININGS - INTERNAL

Three day Entrepreneurship and Career Development Program

Alen Joy and Saurav Mohan (2014-'18 batch) have undergone three day Entrepreneurship and Career Development Program jointly organised by KITCO Ltd. and TIST from 11th to 13th August 2015.

Workshop on Communication & Presentation skills

Selected students of B.Tech 2013-'17 batch attended a workshop on 'Communication & Presentation skills' organized at TIST, by the Dept. of IT in association with ICTAK and ISTE, on 16th December 2015.

Workshop - 'Idea Generation & Business Modelling'

B.Tech 2015-'19 batch students attended an IEDC workshop on 'Idea Generation process & Business Modelling' by Mr. Andrine Mendez, organized at TIST, in association with Kerala start up village, on 19th March 2016.

TRAININGS - EXTERNAL

Student Industry Interaction Programme

Meenakshi Suresh, Jerin A Mathews and Jishnu Vijayan (2012-'16 batch), along with Asso. Prof Jesna Anver attended 'Student Industry Interaction - Top Ten meet' at Infopark, Kochi, organized by ICTAK on 6th August 2015. The panel members were, Sunil Balakrishnan - Global head for Development Centre-Operations UST Global, Dinesh P Thampi General Manager & Delivery Centre Head at TCS, Santhosh Kurup, CEO ICT Academy of Kerala.

IEEE Workshop - All India Student and Young Professional Congress 2015

Jaijo John (2012-'16 batch) attended a 3 day IEEE-All India Student and Young Professional Congress 2015 at Rajagiri School of Engineering and Technology, Kakkanad on 7th, 8th and 9th of September 2015.

SPEED Workshop

Geo Kevin Rubison (2013-'17 batch) attended a 3 day workshop organized by SPEED (Student Platform for Engineering Education Development) Student Forum in collaboration with IUCEE at PSG College of Technology, Coimbatore from 25th to 27th September 2015. The workshop was based on the theme "Engineering Education without Borders". The group from TIST formulated certain ideas and action plan based on the track "Re-Imagining Engineering Education".

Indian Students Forum

Geo Kevin Rubison (2013-'17 batch) attended the 3rd Indian Students Forum on the theme "Engineering Education without Borders" at College of Engineering, Pune from 8th – 10th January 2016.

CO CURRICULAR

- Vishnu Shenoy (2012-'16 batch) participated in events Insight and Bug Smash as part of Ascend 2015 on 31st July and 1st August 2015 held at Saintgits College of Engineering.
- Jishnu G (2013-'17 batch) participated in 'Techwizard Quiz' and 'Bug Tracker Debugging' events in Code Veda 2k15 held at Mangalam College of Engineering on 11th and 12th August 2015.
- Muhammed Shafeeq O M and Arjun Chanduvally (2013-'17 batch) has participated in 'Sketch the Web' of Takshak '15 held at MA college, Kothamangalam on 11th and 12th September 2015.
- R Adithya Naik, Vishnu Shenoy, Jerin A Mathews and Rejsal T Basheer of (2012-'16 batch) participated in Eccentricity competition held at Excel 2015, Model Engineering College, Thrikakkara on 17th Sept. 2015.
- Devender Gupta (2013-'17 batch), participated in the gaming event Counter Strike held at Excel 2015, Model Engineering College, Thrikakkara on 17th September 2015.
- Naseem Mohammed Ali, Adarsh B S, Nikitha Sajan, Lakshmi Mohan, Aysha Zenab Kenza, Malavika Suresh and Meerena Baby (2014-'18 batch) participated in the event LOC held at Excel 2015, Model Engineering College, Thrikakkara on 17th September 2015.
- Sharon Alex, Deepu T G, Tinu Maria, Jitha A and Karishma Krishnankutty of (2013-'17 batch) participated in the event LOC held at Excel 2015, Model Engineering College, Thrikakkara on 17th September 2015.
- Jaijo John, Arun Mathew and Nikhil Kuriakose of S7 participated in the Inter Collegiate Project Presentation conducted on 18th & 19th September 2015 at Sree Narayana Guru Institute of Science & Technology.

ARTS AND SPORTS

- Sharon Alex of (2013-'17 batch) attended Table Tennis competition at CUSAT in January 2016.
- Thanvi Sandip Asher (2013-'17 batch) participated in Throwball competition held at CUSAT on 17th January 2016.
- Karishma Krishnankutty (2013-'17 batch) participated in Basketball competition held at CUSAT on 13th January 2016.

STUDENT PARTICIPATIONS - M.TECH**TRAININGS - INTERNAL****Placement Training**

M.Tech CSD 2014-'16 batch students attended a 3 day placement training program which was organized by TIST placement cell in August 2015. The training process involved aptitude training, group discussions and mock interviews.

Technical Session on Research Methodology by Dr. VPN Namboodiri, CUSAT

M.Tech CSD 2015-'17 batch students attended a technical session on Research Methodology held at TIST by Dr. VPN Namboodiri, CUSAT on 3rd August 2015.

TRAININGS - EXTERNAL**Workshop on Secure IT User Training**

Abhijith S, Akshaya S, Ambily Sabu, Amruth Jyothi V, Binisha Mohan, Chinchu Paulose, Jisha S, Ranjith R Bhat, Rija Jose, Shilpa Shaju, Sreelakshmy I J and Vandana Purushothaman of M.Tech CSD 2014-'16 batch attended a one week workshop on 'Secure IT

User Training' from July 20th to 24th 2015 at IITMK, Thiruvananthapuram. The major topics discussed in the session were "Introduction to Cyber Security, Computer Security, Password Security, Windows Security and Data Protection", "Physical security, Monitoring Kids Online, Social Engineering, about Identity Theft, Email security, and safe browsing and Malware protection", "Session Hijacking, Packet Sniffing, Credit Card Frauds, Data Backup and Internet Security", "Cryptography, Digital Signature, Digital image forensics and Ethical Hacking" and "Social Network Security, Image Encryption, Data Hiding & Watermarking and Biometrics."

Workshop on Certified Ethical Hacking

Ranjith R Bhat of M.Tech CSD 2014-'16 batch attended a 2 week workshop on Certified Ethical Hacking at IITMK, Thiruvananthapuram from July 27th to August 7th. The sessions included Network Scanning, Social Engineering, System Hacking, Wireless Hacking, SQL INJECTION and XSS Session Hijacking.

TRAININGS - EXTERNAL.

Workshop on Cyber Threat Resilience

Ranjith R Bhat and Jisha S of M.Tech CSD 2014-'16 batch attended the International Workshop on Cyber Threat Resilience on 13th October 2015 at Technopark, Thiruvananthapuram. The event provided an international forum for sharing, discussing various issues in cyber threat resilience and formulating strategies for creating a resilient world. The program involved 3 plenary talks, 8 rapid round talks, 3 panel discussions by Indian and international experts from academia, industries and government organizations. The workshop provided an excellent platform for networking with peers in the cyber security domain.

STTP on "Security Issues in Computer Networks and Latest Solutions"

Shilpa Shaju, Rija Jose, Chinchu Paulose, Jisha S and Akshaya S of M.Tech CSD 2014-'16 batch attended a short term training program on "Security Issues in Computer Networks and Latest Solutions" organized by the Division of IT, School of Engineering, CUSAT, Kochi from 9th to 11th December 2015.

Workshop on Cloud Technologies

Hridya Venugopal and Abhijith S of M.Tech CSD 2014-'16 batch attended the one day workshop on "Cloud Technologies" organized by India Options Softwares Private Limited, Kochi on 19th February 2016.

Workshop on Information Security and Knowledge Management with Special Emphasis on Tools and Techniques

Ebin Raju, Honey Brijee Johny, Remilda Rajan and Steffy Livera of M.Tech CSD 2015-'17 batch attended the two day workshop from 20th April to 21st April 2016 at CUSAT. This programme discussed topics like cryptography and its overview, various tools used for cyber security, efficient ways for performing knowledge management, the various tools available for performing the same etc.

HONOURING STUDENT COORDINATORS

Students who have accomplished specific tasks for the department were honoured during Tech FOSS 2K16. Firstly, the office bearers of 2014-'15, R Adithya Naik (past Secretary) and Meenakshi Suresh (past Joint Secretary), were honoured for their leadership and core co-ordination. The new office bearers, Sreelakshmi K K and Siddharth Prajosh were then introduced. Certificates were awarded to Jerin A Mathews, Jishnu Vijayan, R Adithay Naik and Vishnu Shenoy (2012-'16 batch) for handling different technical training workshops for students. Mahima Mary Mathews, Ranjith R Bhat and Hridya Venugopal (M.Tech 2012-'16 batch) were bestowed with certificates for handling different social awareness sessions on 'Cyber Security' in nearby schools. Shafeeque O M (2013-'17 batch) was awarded certificate as a token of appreciation for his creative designs and contributions towards departmental activities. Dr. D Vincent H Wilson presented a memento to Ms. Elsaba Jacob, Assistant Professor, for the contributions towards departmental activities.



CSAT-CSI STUDENT COORDINATORS

Sreelekshmi K K (CSI TIST - Secretary)
Akhil Ashok (CSAT - Secretary)

Siddharth Prajosh (CSI TIST - Joint Secretary)
Sahana M Sherief (CSAT - Joint Secretary)

ACADEMIC EXCELLENCE

B.TECH PROFICIENCY:

GEORGEKUTTY P THATTIL MEMORIAL ENDOWMENT:

(The award is presented each year to the CSE topper, in memory of our beloved student, Georgekutty P Thattil (2010-'14 Batch) who passed away on November 2nd 2011, sponsored by his family.)

Ms. Sukanya Radhakrishnan - B.Tech CSE Topper (2012-'16 Batch)

Mr. Akshay K - B.Tech CSE Topper (2013-'17 Batch)

Ms. Anciya T A - B.Tech CSE Topper (2014-'18 Batch)

M.TECH PROFICIENCY:

Ms. Shilpa Shaju - M.Tech CS (Data Security Topper (2014-'16 Batch)



Title: **BCI Mouse** (Brain Computer Interface Mouse)
 Team: Abin Abraham, Jerin A Mathews, Jishnu Vijayan
 Guide: Asst. Prof. Anuraj C K

Title: **Smart Reminder** (for alzheimers patients)
 Team: Kripa Radhakrishnan, Sukanya Radhakrishnan, Anju Prasad, Guide: Asst. Prof. Saira Varghese

Title: **Shop Me App**
 Team: Jaijo John, Nikhil Kuriakose, Rejsal T Basheer and Arun Mathew, Guide: Asst. Prof. Anuraj C K

Title: **Smart Helmet**
 Team: Eby Cloudins, Preshin P S, Vishnu Shenoy R
 Guide: Asst. Prof. Gokul Kishan

Title: **KOMET (Kochi Metro App)**
 Team: Mereetta Felix, Sreejisha B, Teena P I
 Guide: Asst. Prof. Panchami V

Project: Secure and Error Correcting Data Transmission Scheme Ensuring Data and Origin Integrity in Delay Tolerant Networks
 Student: Mahima Mary Mathews
 Guide: Asst. Prof. Panchami V

Project: An Improved Security in ATMs using Dynamic Authentication
 Student: Hridya Venugopal
 Guide: Dr. N Vishwanath

Project: XMS: An end to end secure transmission of SMS
 Student: Ranjith R Bhat
 Guide: Asst. Prof. Panchami V

PAPER PUBLICATIONS/PRESENTATIONS - M.TECH

Published in the International Journal of Engineering Science and Computing ISSN 2250-1371

- Amal Chacko C – “Secure Web Based Sales Configurations in a Trading Industry”

Published in the International Journal of Engineering Research and Applications (IJERA)

- Neetu Bose - “An Improved Method for Preventing Data Leakage in an Organisation”

Published in the International Journal of Innovation and Scientific Research (IJISR)

- Mahima Mary Mathews - Wi-Fi Assisted Communication Network (WACN) - A novel and independent solution for communication over challenged networks

Presented at the IEEE Sponsored 3rd International Conference on Innovations in Information, Embedded and Communication System (ICIIECS '16) on 17th & 18th March, 2016 at Karpagam College of Engineering, Coimbatore:

- Abhijith S – “Enhanced Secure Data Authentication and Transmission using RDHSS Scheme”
- Ranjith R Bhat - “A Novel and Robust Symmetric Block Cipher for Hand-Held Mobile Devices”
- Akshaya S – “Authentication using Image Based Captcha as Graphical Password”
- Ambily Sabu - “An Improved Visibility Restoration of Single Haze Images for Security Surveillances Systems”
- Amruth Jyothi V – “Secure Pin Entry Method Resilient to Shoulder Surfing and Recording at Tacks”
- Binisha Mohan – “Data Hiding in Encrypted Video using Histogram Shifting Method”
- Chinchu Paulose – “An Effective Method to Secure Mobile Agents by Avoiding Colluded Truncation Attack”
- Hridya Venugopal – “A Robust and Secure Authentication in Online Banking”
- Jeeshma Shaji A – “An Improved Privacy Preserving Multimedia Data Aggregation in Participatory Sensing”
- Jisha S – “RFID Based Security Platform for Internet of Things in Health Care Environment”
- Mahima Mary Mathews – “Date Time Keyed – HMAC”
- Rija Jose – “An Improved Authentication Mechanism for Mobile and Cloud Computing”
- Shilpa Shaju – “BISC Authentication Algorithm: An Efficient New Authentication Algorithm using Three Factor Authentication for Mobile Banking”
- Sreelakshmy I J – “An Improved Method for Copy-Move Forgery Detection in Digital Forensic”
- Surabhi James – “Privacy Preserving Authorized Public Auditing of Dynamic Data Storage on Cloud with Efficient Verifiable Fine Grained Updates and Multi Keyword”
- Vandana Purushothaman – “An Improved Secret Sharing using XOR-Based Visual Cryptography”

Presented at the Springer International Conference on Soft Computing Systems organized by the Department of Electrical and Electronics Engineering, Noorul Islam University, Tamilnadu held on 19th February 2016

- Ebin Raju - “A Fast Color Based Non Linear 8 Bit Pseudo Random Number Generator Enabling Diffusion for Light Weight Cryptographic Applications”

- **Asst. Prof. Panchami V** presented a paper on "A fast colour authentication algorithm for secure mobile computing" in the IEEE International Conference on Innovations in Information, Embedded and Communication Systems, held at Karpagam College of Engineering, Coimbatore, Tamil Nadu on 20th March 2015.
- **Asso. Prof. Sreela Sreedhar** presented a paper on "A Security Framework for Brokerless publish subscribe system using identity based signcryption" in the IEEE International Conference, organized by the Department of Electrical and Electronics Engineering held at Noorul Islam Centre for Higher Education, Kumaracoi, Kanyakumari, Tamil Nadu on 19th and 20th March 2015.
- **Asso. Prof. Sreela Sreedhar** published a paper on "Efficient revocation and Key Management for Cipher text Policy Attribute Based Data Sharing System" in the International Journal of Applied Engineering and Research IJAER (Paper presented in DRDO sponsored IEEE International Conference on Innovations in Information, Embedded and Communication System(ICIIECS- 15) on 19th and 20th March 2015, organized by the Dept. of Electronics and Communication Engineering, Karpagam College of Engineering, Coimbatore, India.)
- **Asst. Prof. Saira Varghese** has participated and presented a paper entitled "A Comparative Analysis on Cloud Data Security" in the Global Conference on Communication Technologies (GCCT-2015) organized by the Department of Electronics and Communication Engineering, Noorul Islam University during 23rd and 24th April 2015.
- **Asso. Prof. Sreela Sreedhar** published a paper titled 'Solitude Conserve Attribute Cryptographic CP-ABFE Data Protocols in fuzzy cloud Service Provider', in Indian Journal of Science and Technology, October 2015, vol. 8, no.25.

EXTERNAL FUNDED PROJECT PROPOSALS

Collaborative Projects by the Departments of CSE and ECE:

Project 1: Design and Implementation Fiber Optics Tracking free Day Lighting System.

Agency: Department of Science and Technology (DST)

Project 2: Design, Implementation and Development of API for Multimodal Biometric for Authentication of Identity.

Agency: Naval Research Board, under DRDO, Govt. of India

Principal/Co-Investigators: Dr. S Perumal Sankar, Professor, ECE, Dr. N Vishwanath, Professor, CSE, Ms. Deepa Elizabeth George, Asso. Prof., ECE, Ms. Sreela Sreedhar, Asso Prof., CSE

Project 3: Critical analysis and comparison of the Science and Technology of Yoga and Meditation Methods of the renowned Yoga Gurus St. Tirumoolar, St. Patanjali and St. Adi Shankaracharya on the body, brain, and mind in terms of basic processes.

Agency: SATYAM, Department of Science and Technology (DST)

Principal/Co-Investigators: Dr. S Perumal Sankar, Professor, ECE, Dr. N Vishwanath, Professor, CSE

Projects by the Department of CSE:

Project 4. Secure & Error correcting data transmission scheme ensuring Data and Origin Integrity in Delay Tolerant Networks.

Agency: Naval Research Board, under DRDO, Govt. of India

Principal/Co-Investigators: Panchami V, Asst Professor, CSE, Dr. N Vishwanath, Professor, CSE

Project 5: A Novel and Efficient Symmetric Cipher for Mobile and Handheld devices.

Agency: SERC Division DST, NEW DELHI

Principal Investigator: Panchami V, Asst Professor, CSE

STUDENT INTERNSHIPS

All students of 1st & 3rd year B.Tech and 2nd year M.Tech undergo internship trainings in reputed companies during their semester break.

CLASS COMMITTEE MEETINGS

Class committee meetings are conducted twice in a semester for all the batches. This is an interaction program with the student representatives and faculty, so that feedbacks can be assessed regularly and action plans can be taken up.





IV to HAL, Bangalore by S5 students:

35 Students of S5, accompanied by the faculty members, Asst. Prof. Anuraj C K & Asso. Prof. Jesna Anver co-ordinated an industrial visit to Hindustan Aeronautics Ltd. (HAL), Bangalore on 18th September 2015. A presentation based on the various processes of production of the various aircrafts flown all over India was shown. They also visited the Visvesvaraya Industrial and Technological Museum (VITM) which has interactive exhibits and each floor of this museum is dedicated to a scientific discipline.



IV to Technolodge, Piravom by S1 students

The micro project team of S1, accompanied by Asst. Prof. Abin Oommen Philip, Asst. Prof. Mima Manual and Asst. Prof. Gokul Kishan, visited Technolodge (The first rural IT park in Kerala), Piravom on 17th October 2015. They were given a brief introduction on Technolodge which is a Start up Village consisting of 36 companies including a company founded by TIST Alumni. The talks were informative and inspirational. Later the students were split into 3 groups and each group was given the opportunity to visit various companies.



IV to Infosys, Trivandrum by S4 students

The students of 4th semester visited Infosys, Trivandrum on 26th January 2016, to pertain the knowledge about the inner atmosphere and industrial acquaintances of the finest company in the country. The students were accompanied by Asst. Prof. Gokul Kishan and Asst. Prof. Mintu Philip. The students were invited to be the part of "SPARK"- interactive program conducted by Infosys. The interaction helped students to acquaint with the current trends in IT industry, company profile, success stories, areas of specialization, selection procedure for freshers and overall life at Infosys -CLIFE.



IV to ITI Ltd., Bangalore by S8 students

35 students of S8, accompanied by Asst. Prof. Abin Oommen Philip & Asst. Prof. Anju Kuriakose, visited ITI Ltd., Bangalore on 19th February 2016. ITI is a state-owned manufacturer of telecommunications equipment in India which has currently six manufacturing facilities which provide a range of switching, transmission, access and subscriber premises equipment. The students visited the different departments of ITI including plating, drilling, designing, printing etc. They also had a chance of seeing different transformations of telephone through different era of mankind.



IV to Technolodge, Piravom by CSE Faculty

Asso. Prof. Sreela Sreedhar (HOD), Asst. Prof. Leda Kamal, Asst. Prof. Elsaba Jacob, Asst. Prof. Mithu Mary George, Asst. Prof. Ashly Joseph, and Asst. Prof. Rinu Rose George, along with selected students visited Technolodge (The first rural IT park in Kerala), Piravom on 1st July 2016.

PTI MEETINGS

Parent Teacher Interaction meetings are conducted once in a semester for all the batches. The activities and achievements of the department are briefed to the parents during this meeting. One to One meetings with teaching faculty is also arranged to keep track of the progress of their wards so that proper follow up actions can be taken.

GROUP ADVISORY & SPECIAL MENTORING

Department follows group advisory system for effective mentoring of students. The students of each class are divided into groups and a teaching faculty is assigned as mentor for their support. Special Mentors are also provided for under performers and constant monitoring is being done. Meeting with Principal is arranged for Toppers as well as Low performers once in a semester, so that their problems if any can be solved effectively.



TEAM CSE

DEAN - CSE & IT

Dr Varghese Paul

Professor

Dr. N Vishwanath

Associate Professors

Ms. Sreela Sreedhar (HOD)

Dr. Rasmi P S

Ms. Jesna Anver

Assistant Professors

Ms. Saira Varghese

Ms. Leda Kamal

Ms. Elsaba Jacob

Ms. Panchami V

Mr. Abin Oommen Philip

Ms. Mima Manual

Ms. Ceira Sara Cherian

Ms. Ashly Joseph

Ms. Rinu Rose George

Ms. Mithu Mary George

Ms. Anju Kuriakose

Mr. Anuraj C K

System Administrator

Mr. Ritesh P

Lab Instructors

Ms. Jisha Rajeev

Ms. Manju C N

Mr. Joby Varghese

Ms. Smitha P K

Ms. Fareeda Begum

Mr. Remya Tomy

System Technician

Mr. Babin Babu

Lab Assistant

Ms. Lizzy K M



19

TIST ALUMNI MEET

TIST Alumni Meet and inauguration of TIST Alumni Bangalore Chapter was conducted on 21st November 2015 at YMCA hall, Bangalore. CSE Alumni members in Bangalore attended the event. Asso. Prof. Sreela Sreedhar and Asst. Prof. Abin Oommen Philip from CSE Dept. participated in the event, along with Principal and other faculty members from TIST.



UPCOMING EVENTS 2016-'17

June 13-17, 2016	FDP on Secure Cloud Computing	Dec 13-14 2016	DB Project Based Training for S6
June 20-July 2, 2016	Workshop on PHP by Technolodge	DEC 2 nd week, 2016	1 st Class Committee Meetings – All Semesters
June 27-July 1, 2016	Placement Training for S8	Dec 16-17, 2016	Introduction to Java
July 1-2, 2016	Library Conference - LISDA 2016	Jan 5-6, 2017	Orientation program on DB based Projects
July 8, 2016	Project Based Orientation Session	Jan 13, 2017	Motivational Session
July 18-22, 2016	Bridge Course on C Programming	Jan 14, 2017	Oracle Academy – ICTAK Webinar
July 3 rd week, 2016	1 st Class Committee Meetings – All Semesters	Jan 20-21, 2017	IIT - National Level Workshop
Aug 18, 2016	CSAT/CSI Activation, Mozilla Club Launch	Jan 28, 2017	Workshop Data Security Tools
Aug, 2016	Industrial Visits – S3, S5, S7	Feb 9-10, 2017	TECH FOSS 2K17 – CSI Inter Collegiate Event
Aug 27, 2016	Workshop - Computer Hardware & Networking	Feb 2 nd week, 2017	2 nd Class Committee Meetings – All Semesters
Aug 3 rd week, 2016	PTI Meetings – All Semesters	Feb 3 rd week, 2017	PTI Meetings – All Semesters
Sept 8-9, 2016	Latex Workshop	April 15 2017	Oracle Academy – ICTAK Webinar
Sept 3 rd week, 2016	2 nd Class Committee Meetings – All Semesters	Mar 6, 2017	Project Expo
Oct 1, 2016	IV to Technolodge for S1	May 9-13, 2017	Technical QIP for Faculty and PG students
Oct 21-22, 2016	M.Tech Workshop on Security	May 15-26, 2017	Empowering Housewives in Computer Education
Dec 3, 2016	Employability Enhancement workshop	May 20-27, 2017	Android Workshop
Dec 5, 2016	placement Training - Facing Interview		

OUTGOING STUDENTS

B.TECH 2012-'16

COMPUTER SCIENCE & ENGINEERING



M.TECH 2014-'16

COMPUTER SCIENCE (DATA SECURITY)



INTEL GALILEO GEN 2 BOARD

Mr. Anuraj C K, Asst. Prof., CSE

Galileo is a microcontroller board based on the Intel Quark SoC X1000 Application Processor, a 32-bit Intel Pentium-class system on a chip. Intel released two versions of Galileo - Gen 1 and Gen 2. Intel Galileo Gen 2 Board is the first Arduino certified, microcontroller development and prototyping board, specifically designed for the maker and education communities, and DIY electronics enthusiasts.

Galileo combines Intel technology with support for Arduino ready-made hardware expansion cards (called "shields" of Uno R3) and Arduino software development environment and libraries. The development board runs an open source Linux OS with the libraries, enabling re-use of existing software, called "sketches". It is programmable through the Arduino integrated development environment (IDE) that is supported on Windows, Mac OS and Linux host OS.

The Intel Quark SoC X1000 is the first product from the Intel Quark technology family of low-power, small-core products, which attempt to compete within markets such as the Internet of Things (IoT) and wearable computing. It is a 32-bit, single core, single-thread, Pentium (P54C/i586) instruction set architecture (ISA)-compatible CPU, operating at speeds up to 400 MHz.

Galileo Gen2 board has support for 256 MB DDR3, 512 kb embedded SRAM and a wide range of industry standard I/O interfaces, including a full-sized mini-PCI Express slot, 100 Mb Ethernet port, 32 GB microSD slot, USB host port, and USB client port, RS-232 serial port, 8MB NOR flash and 8 kb EEPROM standard. The core operating voltage of Galileo is 3.3V. It has a number of facilities for communicating with a computer, another Arduino, or other microcontrollers.

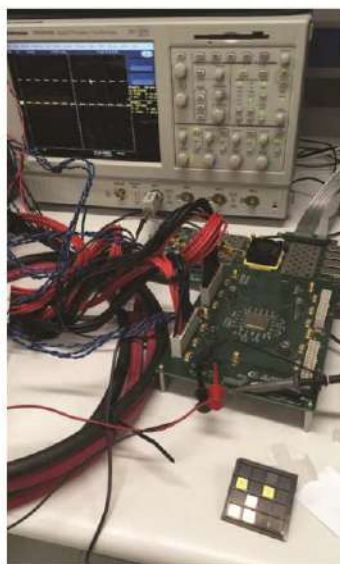
The Intel IoT Developer Kit for Gen 2 adds C, C++, Python, and Node.js/Javascript support for developing connected sensor IoT applications. It also supports the Wyliodrin platform that provides C, Python, Node.js, and Visual Programming environments from a remotely-connected browser.



WORLD'S FIRST 1,000-PROCESSOR CHIP

Ms. Elsaba Jacob, Asst. Prof., CSE

World's first 'KiloCore' chip, a microchip containing 1,000 independent programmable processors, has been designed by a team at the University of California, Davis, Department of Electrical and Computer Engineering. The energy-efficient chip has a maximum computation rate of 1.78 trillion instructions per second and contains 621 million transistors. The chip was presented at the 2016 Symposium on VLSI Technology and Circuits in Honolulu on June 16.



Professor Bevan Baas of Electrical and Computer Engineering led the team that designed the chip architecture. The KiloCore chip was fabricated by IBM using their 32 nm CMOS technology. Each processor core can run its own small program independently of the others; an application can be broke up into many small pieces, each of which can run in parallel on different processors, enabling high throughput with lower energy use.

Because each processor is independently clocked, it can shut itself down to further save energy when not needed. Cores operate at an average maximum clock frequency of 1.78 GHz, and they transfer data directly to each other rather than using a pooled memory area that can become a bottleneck for data.

The chip is reported to be the most energy-efficient "many-core" processor; it can execute 115 billion instructions per second while dissipating only 0.7 Watts, low enough to be powered by a single AA battery. The KiloCore chip executes instructions more than 100 times more efficiently than a modern laptop processor.

Applications already developed for the chip include wireless coding/decoding, video processing, encryption, and others involving large amounts of parallel data such as scientific data applications and datacenter record processing. The team has created a compiler and automatic program mapping tools for use in programming the chip.

POKEMON GO

'Pokemon Go' is one of the first augmented reality games to truly take off. It is a free-to-play, location-based game developed by Niantic for iOS and Android devices. Pokemon Go has players walk around the real world to catch Pokemon in the wild. Players use a mobile device's GPS capability to locate, capture, battle, and train virtual creatures, who appear on the screen as if they were in the same real-world location as the player. Users actually have to get up and move to play. The game is credited for promoting physical activity and helping local business grow. However, it has also attracted controversy for contributing to accidents and becoming a public nuisance at some locations.

Ms. Manju Mohan, S5 CSE



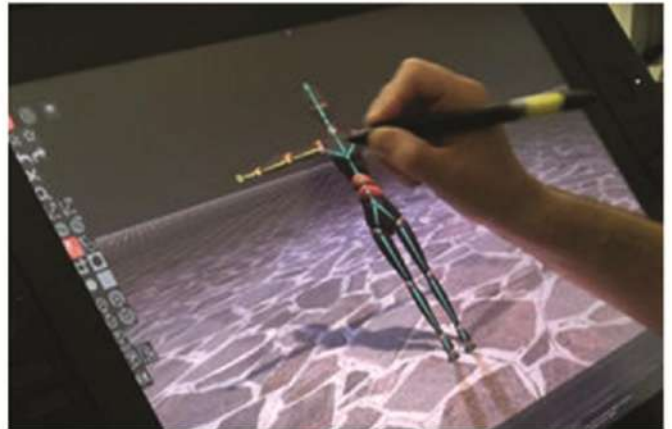
3D ANIMATIONS WITH THE STROKE OF A PEN

With just the stroke of a pen or the click of a mouse, you can now transform your 2D sketches into 3D animations. New computer software, known as **Mosketch**, allows anyone to try their hand at 3D animation without toiling away at numerous sketches. The software combines two major animation methods: direct kinematics, which deals with the change of a character's joints, and inverse kinematics, which takes into account the movement of a character's body part. Artists can use the 3D software to seamlessly convert a 2D stroke into 3D moves, according to its developers.

Now available in beta, Mosketch was developed by Moka Studio and École Polytechnique Fédérale de Lausanne (EPFL), a research institute in Switzerland that specializes in physical sciences and engineering. Mosketch is being promoted as professional-grade software that can "be used by anyone, from independent artists to animation studios." The software does the background work of programming a movement, while the artist simply uses their pen or mouse to draw the prompts. As soon a line or stroke is drawn, the user can see the line on the screen and the algorithm instantaneously adjusts the pose of the 3D figure to match this line. So there is no complicated user interface. The software also allows users to change viewpoints as they change a character's poses, adding to the experience of animating in a 3D space. Changing perspective as the drawings are animated is similar to a camera moving around the animated space. The mathematical equations and algorithms behind the software could have applications for virtual reality and robotics.

Mr. Siddharth Prajosh C, S5 CSE

Source Article: LiveScience (<http://www.livescience.com/55458-mosketch-software-3d-animation.html>)



AN INSPIRATIONAL STORY OF OUR DISTINGUISHED ALUMINI- JIBIN JOSE

startup



സിജോ കൃത്യവിള ജോർജ്ജ്
skg@sjokuruvilla.in

എന്നർ നേതൃത്വകാലയവുമായി ഭക്തവധി യുഗസംഭവകൾ പ്രശസ്തിയോടെ വളർച്ചയായിത്തീർന്ന ആകാശ് സ്വാർത്ഥ വിമോചന സാധിച്ചു എന്നതിൽ വളരെ അധികം സമാനതയുണ്ട്. ആരു സംശയിച്ചിരുന്ന ഒരു കാര്യവുമില്ല. അതിൽ ഏതാ അപരമാവുന്ന ചിട്ടയില്ലാത്ത ഒരു സംഭവങ്ങൾ കഥ ആവട്ടെ ഇന്നത്തെ കാലത്ത്.

വർദ്ധത്തിലെ ആദ്യ ഏതാത്മം മാസങ്ങൾക്കകം ഈ സ്ഥിതിഗതികൾ എല്ലാ മാസവും ഉണ്ടാകുന്നു.

എല്ലാത്തിനും തുടക്കമായ
ബസ് യാത്ര

[illegible]

ഇക്കഴിഞ്ഞ സാക്ഷാത്കാരം ഉണ്ടെന്നുള്ള വിവരം ഉള്ളതായാ, അങ്ങനെയൊക്കെയും ആ ബോധ്യം ആരും ഉണ്ടാകാത്ത അവസ്ഥയിൽ ഉണ്ടാകാത്തതായിരിക്കണം.

Rideblock എന്ന ആശയത്തിന്റെ ജനനം

[illegible]

നോക്കൂ ജിബിന്റെ അതിപുതുപ്പും കൂടി ആയപ്പോഴും എത്തിച്ചേർന്നത് RideBlock എന്ന ആശയത്തിന്റെ. സ്റ്റേറ്റ്സെംഗർഡിന്റെ പൊതുവായവരുടെ ചലനത്തെ അതുക്കൂടെ സാധിക്കുന്ന ഹാർഡ്വെയർ അധിഷ്ഠിത ആശയമായിരുന്നു RideBlock. ആദ്യ ചുവടും നിർണായകം.

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അൽ കത്താ: ലഭിക്കുകയും ചെയ്തു. നേതാവിന്റേതായാണ് അതോടൊപ്പം വരുകയും ചെയ്തതാണ്. അൽ കത്താവിന്റെ ഏതാണ്ട് ഇരുപതു ശതമാനം തന്നെ ഇന്നിപ്പോൾ അത് ഏതാണ്ട് പ്രത്യേക അംഗീകാരത്തിന് അതാണ് Qualcomm GPrize ഉൾപ്പെടെയുള്ള സ്ഥാപനങ്ങൾക്ക് ലഭിക്കുകയുണ്ടായി. ഇത് മറ്റൊരു സാധ്യതയായ വീണ്ടെടുപ്പാണ്. അതാണ് പ്രത്യേക VC-കളായ Accel Partners, Qualcomm Ventures എന്നിവയ്ക്ക് നിന്ന് നിൽക്കുകയും ചെയ്യുകയും ചെയ്തു.

കുമാ ഇന്ത്യയിലെ

ആഗ്ര മാവേലത്ത പരിശീലനം പുര ത്തിരിക്കാൻ അവിടുന്ന് കൂട്ടിച്ചു. അക്കാലത്ത് നിന്നു തിരിച്ചെത്തിയപ്പോൾ ആ സമയത്ത് വിവാഹം ചെയ്ത ആയിരുന്നു. നീക്കം ചെയ്യപ്പെട്ടതിനെത്തുടർന്ന് കടൽക്കര ആണ് ഇപ്പോൾ 1.3 ലക്ഷം രൂപയുടെ സ്ഥലം വിലയിരുത്തുന്നതിന് നിന്നു കൊണ്ടിരിക്കുന്നു. ഏകദേശം 800000 രൂപയാണ് വിലയ്ക്ക് വാങ്ങിയത്. ഇതിന്റെ മൂല്യം 1.3 ലക്ഷം രൂപയായി കുറഞ്ഞു.

ഒരു യുവാവിന്റെ കഥ

ആദ്യ കുടിക്കൊഴി

பிப்பாணிக்குடனாகவே அங்குள்ளு
மனை கிடி போலது ஐயுமினி அனாடு
மறுபுறமாக அங்குடையார் வயதார்
முதலான ஆறு மனைகளின் முடிந்த
ஆயுதங்கள் ஆகவே கிடி
கொண்டிருக்கிற பிப்பாணி
மனைகளைவிடவேண்டுமோ மா
ருதுவதில் அனாடு அங்குடையார்
விவரினார் பிப்பாணியுடையார்.
முடிந்த பிடிந்த மனைபிந்தை
கூடி ஐயுறார், உறுதியை உறுதுறை
அங்குள்ளிருந்து கொண்டிருக்கிற
மனை அங்குள்ளியுடன் நகரங்கு அது
அனாதையார் அங்குள்ளியின் இரண்டாம்
புறப்பிப்பாணியுடன் விவரம் கொண்டார்.

[illegible]

വേണം അടിസ്ഥാനപരമായ മാറ്റം

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writer is...

കേരള സ്റ്റാർട്ടപ്പ് മിഷൻ കൺസൾട്ടന്റ്, സ്റ്റാർട്ടപ്പ് വിജ്ഞാപനാലക സിഇഒ.

നൈപുണ്യ മികവിനായി ടിസ്റ്റും ടെക്നോ ലോഡ്ജും ധാരണാപത്രം ഒപ്പിട്ടു

Toch Institute of Technology, Arakkunnam, has bagged 'Best Student Chapter Award' by Computer Society of India (CSI) for the first time. As part of the award, CSI TST as the Best Active Student Chapter awards were presented at the 10th CSI Student Convention held at...

Kochi: Girls bagged the top three ranks in the MTECH Computer Science (Data Security) examination conducted by Cusat in May 2015.

SPECIAL CORRESPONDENT

MOORE: Experts from around the globe will discuss the potential of 'Bio-Inspired Computing' at a three-day international conference to be

[illegible][illegible]

computing
communication.
IBICA '2015 is providing a
platform for world research
practitioners to

[illegible]

662 യാത്രാവിഹാര കി.ന

[illegible]

റോബോട്ടിക് വിസ്ഫ

...stitute of Science and
...technology, Arakkunnam,
...will organize a three-day
...international conference on
...inspired

A photograph showing a man with a beard and a young boy looking down at a small object, possibly a piece of jewelry or a small animal, which is partially visible in the foreground. The man is wearing a light-colored shirt, and the boy is wearing a striped shirt. The background is slightly blurred, showing other people.

ജൈവപ്രകൃതി കിരസ്തിയിൽ തീർന്നു

സംസ്ഥാനം

ശാക്തീകരണം

[illegible][illegible]

പിറവ: ചാത്തിലു വാതിൽ തുറന്നു. അപ്പോഴാണ് അവിടെ നിൽക്കുന്നവർക്ക് തിരിച്ചറിയപ്പെട്ടത്. അവിടെ നിൽക്കുന്നവർക്ക് തിരിച്ചറിയപ്പെട്ടത്.

[illegible][illegible]

അറബി സംഘടിച്ചപ്പോൾ, അറബോട്ടുകൾക്കു പ്രവേശനം മാത്രമല്ല, ലോകവാദനാഭോദികൾക്കും പ്രവേശനം ഉണ്ടായിരുന്നു.

ബോളിവുഡ് വിസ്മയമായി
കൊച്ചി: കൊച്ചിയിലെ സാമൂഹ്യ

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 194. 2000-07-14
 195. 2000-07-15
 196. 2000-07-16
 197. 2000-07-17
 198. 2000-07-18
 199. 2000-07-19
 200. 2000-07-20
 201. 2000-07-21
 202. 2000-07-22
 203. 2000-07-23
 204. 2000-07-24
 205. 2000-07-25
 206. 2000-07-26
 207. 2000-07-27
 208. 2000-07-28
 209. 2000-07

<p>අනුප්‍රාප්ති තැනුපොරි සහ අනුප්‍රාප්තික අනුප්‍රාප්ති</p>	<p>අඟි බවින්ද අනුප්‍රාප්ති සහ අනුප්‍රාප්තික සහ අනුප්‍රාප්තික සහ අනුප්‍රාප්තික</p>	<p>අනුප්‍රාප්තික අනුප්‍රාප්ති සහ අනුප්‍රාප්තික සහ අනුප්‍රාප්තික සහ අනුප්‍රාප්තික</p>	<p>අනුප්‍රාප්තික සහ අනුප්‍රාප්තික සහ අනුප්‍රාප්තික සහ අනුප්‍රාප්තික</p>
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Ms. Manju Mohan (S5)



CSI TIST Student Branch