

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)



ANNUAL REPORT 2018-2019

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)

FISAT has been in the forefront of technical education since 2002. Offering B Tech, M Tech, MBA, MCA and PhD programs, the institution has carved a niche for itself in the professional education sector. Excellent academics, placements with equal emphasis on co-curricular and extracurricular activities makes the institution stand out among its peers.

GOVERNANCE & ADMINISTRATION



Mr. Paul Mundadan
Chairman



Dr. George Issac
Principal



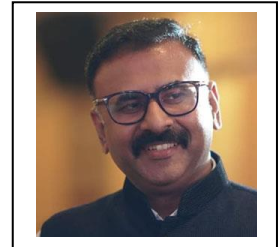
Dr C Sheela
Vice Principal



Dr KSM Panicker
Director (Academics)



Dr. Sunny Kuriakose
Dean (Student Affairs)



Dr George V Antony
Director (FBS)

Management Team of FISAT

- | | |
|--------------------------|---------------------------------------|
| 1. Sri.Paul Mundadan | Chairman, Governing Body, FBOAES |
| 2. Sri.V S Pradeep | Vice Chairman, Governing Body, FBOAES |
| 3. Sri.Sachin Jacob Paul | Treasurer, FBOAES |

4. Sri.Rajanarayanan V M	Vice President, FBOAES
5. Sri.Abdul Nazar M P	Associate Secretary, FBOAES
6. Sri.Jojo K J	Associate Treasurer, FBOAES
7. Sri.George C. Chacko	Member
8. Sri.E.K.Rajavarma M.P	Member
9. Sri.Xavier Gregory	Member
10. Sri. K.T. Thomachan	Member
11. Sri.Pappachan Thekkekkara	Member
12. Sri.Jenib J. Kachappilly	Member
13. Dr. George Issac (Principal)	Ex-Officio – Special Invitee
14. Dr. K.S.M Panicker (Director Academics)	Ex-Officio – Special Invitee
15. Mr. Prakash C. Chandy (Chief Administrative Officer)	Ex-Officio – Special Invitee

Academic Heads

Principal	Dr. George Issac, M. Tech, Ph.D
Vice-Principal	Dr. C .Sheela, M.Sc, M. Phil, Ph.D
Director (Academics)	Dr. K S M Panicker,ME,Ph.D
Dean (Students Affairs)	Dr. Sunny Kuriakose,M.Sc, Ph.D
Director, FISAT Business School	Dr. George V Antony, MBA, Ph.D, PDF
Administrative Officer	Mr. Prakash C Chandy, MSW,CTA

Governing Council

As per the guidelines of AICTE, the Governing Council was formed by including Members from the Managing Committee, Officials of the College, Experts from Technology/Education, Representatives of University, State Government and AICTE. The Governing Body meets annually to discuss the various governance aspects of the institution.

The Governing Body is constituted with the following members:

Mr. Paul Mundadan	Chairman
Mr. Pradeep V. S.	Vice Chairman
Mr. Sachin Jacob Paul	

Mr. Rajanarayanan V. M.

Mr. Jenib J. Kachappilly

Mr. Pappachan Thekkekkara

Mr. Abdul Nazar M. P.

Mr. Jojo K. J.

Mr. Xavier Gregory

Mr. Rajavarma E. K.

Mr. George C. Chacko

Mr. Thomachan K. T.

Dr. M. C. Dileep Kumar

Dr. K. P. S. Nair

Dr. George Issac

Ex-Officio Secretary

Advisory Board

The Society has enlisted the support of many luminaries from the field of education, technology, administration and banking to guide the functioning of FISAT. The advisory board of the Society consists of eminent personalities with proven capabilities including.

Dr.G.Madhavan Nair,Former Chairman,ISRO

Dr.V.N.Rajasekharan Pillai,Former Executive Vice President, KSCSTE

Mr.K.P.Fabian, IFS(Rtd),Former Ambassador of India to Italy and Gulf Countries

Dr.E.Gopinathan,Former Director, NIT Calicut, Kozhikode

Dr.Jacob Thomas,IPS,DGP, Former Director (Vigilance)

Heads of the Departments

The Heads of various departments for the academic year 2018-19 are as follows

Sl.No	Department	Name of the HoD
1	Civil Engineering	Dr. Unnikartha G
2	Computer Science and Engineering	Dr. Prasad J C
3	Electronics and Communication Engineering	Dr. Mini P R
4	Electrical and Electronics Engineering	Dr. Parvathy R
5	Electronics and Instrumentation Engineering	Dr Abi P Mathew
6	Mechanical Engineering	Dr. Jose Cherian
7	Computer Applications	Mr. Santhosh Kottam

Academic Affairs



University Results

Sl. No.	Dept.	No. of Students Registered for Final Semester Examination	No. of Students Passed Final Semester Examination	Pass Percentage
1	CE	121	121	100
2	CS	115	110	95.65
3	EE	59	44	74.58
4	EC	119	112	94.11
5	EI	47	43	91.49
6	ME	115	104	90.4
7	MBA	118	106	89.83
8	MCA	114	114	100

Sl. No.	Dept/Program	No. of Students Registered for Final Semester Examination	No. of Students Passed Final Semester Examination	Pass Percentage
1	CE/SECM	24	24	100
2	CS/CSIS	8	8	100
3	EE/PEPS	15	15	100
4	EC/COEN	5	5	100
5	EC/VLSI&ES	12	12	100
6	ME/CIM	0	0	-

The vibrant Internal Quality Assurance Cell (IQAC) in the College has taken up the task of developing a system for conscious, consistent and catalytic improvement in the overall performance of the College. The IQAC, in many of its sessions, thoroughly studied the Peer Team Report submitted by NAAC visiting team and necessary actions have been identified and submitted for execution and implementation. The deficiency of a full-fledged Auditorium and a Canteen with modern facilities and amenities were identified by the Peer Team and yet to be constructed.

Moreover, each Department has formed a department level Department Quality Assurance Cell (DQAC), as a counter part of the IQAC and striving hard for quality enhancement and sustenance. Preparing the Annual Quality Assurance Report (AQAR) of each year is a major task and the reports are to be sent to NAAC regularly. The Kerala Technological University has recently recognized the importance of ICAC and entrusted the task of external Audit under its ambit.

Heading For NBA Accreditation

After the successful assessment and accreditation by National Assessment and Accreditation Council (NAAC) with 'A' grade in 2016, the College is now aspiring for the accreditation by the National Board of Accreditation (NBA). The preparations for the NBA accreditation for five programmes are under way.

The following are the major activities already done in the recent past.

- Outcome Based Education mode has been introduced in its fullest form since July 1, 2018. A group of 7 teachers were deputed to attend a conference at St. Gits College, Kottayam in which NBA Accreditation was the major theme of the conference.
- A two-day orientation programme for staff on the theme 'Where are we as Individuals and as an Institution' by Dr. Thomas Abraham was conducted during July 2-3, 2018.
- A one-day seminar on 'The Role of Science and Humanities in NBA Accreditation' was conducted on 7/9/2018. Dr. M. Kameswary, Department of Mathematics, Thiagarajar College of Engineering, and Madurai was the Resource person.
- An interactive session by Prof. Prasad Krishna, NIT Suratkal was conducted on November 2, 2018.

A series of orientation programmes was conducted as given below:

Sl. No.	Date	Topic	Speaker
1	25.6.2018	Introduction to OBE	Dr. Sunny Kuriakose
2	4.7.2018	Programme Outcome	Dr. Mini P. R.
3	6.7.2018	Designing Course Plan	Aiswarya Raj & Jesline P. Jo
4	9.7.2018	Outcome Based Education	Dr. Arun Kumar M. N.
5	13.7.2018	Target Setting CO Attainment	Resmi R.

Documents and Files required with regard to NBA accreditation process were prepared. Three-round of Criterion-wise presentations have been organized.

An NBA Accreditation Committee with the Management Representatives, Mr. E. K. Rajavarma. The NBA accreditation of the programmes would definitely benefit the College in many ways. We hope that all the programmes offered in the College would be accredited by NBA soon. Dr. Sunny Kuriakose is serving as the NBA coordinator.

SAAC Accreditation

A State level accreditation mechanism is just around the corner for ensuring the quality in the higher education institutions in the State under the aegis of the Kerala Higher Education Council. Dr. Sunny Kuriakose was invited as a resource person by the Council to give an orientation with regard to the framing of the rubrics for accreditation by SAAC.

Academic Performance Monitoring Committee (APMC)

As a measure of quality initiative and sustenance, the Academic Performance Monitoring Committee is functioning effectively under the leadership of Dr. KSM Panicker, Director, Academics. Periodic class-wise meetings have been held with the poor performers and the respective teachers.

Facilities added

- FISAT Avenue Road has been widened, side walls constructed and the road maintenance works completed, giving a face-lift to the main approach road to the campus and its surroundings.
- Firefighting systems as per norms have been installed, inspected and commissioned in our main college building.
- Our new venture of Community Skill Park in Association with ASAP (Additional Skill Acquisition Programme) is in progress. Building constructed for Architecture College is to be used for the purpose.
- As a part of our campus beautification endeavour and in the wake of NBA inspection, painting, repair, maintenance and gardening works are in progress.
- Work of DG Block adjacent to the auditorium is completed and the rooms occupied.
- Construction of 2 Seminar Halls in the Decennial Block is completed.
- 4 wells in our campus are now connected, making it possible to make use of any of them for the use of the campus requirements.
- A room with toilet facility is built for our staff of STP.
- Maintenance & Strengthening of the walls of the stream running through our campus is completed. Boundary wall of the pond adjacent to our bus bay is strengthened and all the related works completed.
- Planted fruit trees, garden plants etc in selected areas surrounding our Ladies Hostel and benches installed, giving the hostel campus a new look and enabling the hostel inmates to relax outside.
- Works of the Hydraulics & metallurgical labs for Mechanical dept. are completed in the existing premises and commissioned.
- New bus routes to Pattimattom, Konnamavu, Pukkattupady, Trissur via Olloor are introduced for the convenience of our students.

ELECTRICALWORKS

- 62.5 KVA D.G set reconditioned and energized with panel board, acoustic chamber and cabling works to make valuable savings of fuel consumption.
- 680 Kg. lift installed in college building and ready for commissioning.

- Placement cell fully commissioned and furnished.
- As a part of NBA, 9 numbers of staffrooms fully re arranged with separate cabins for faculties and their electrical accessories accordingly.
- Research wing of CS Dept., labs, Exam Cell, Cabin for Dean (Students affairs) are electrified as per their requirements and standards.
- Lightning protection works for the entire college building completed.
- Automatic Boom Barrier, Automatic Visitors Recognition System and Vehicle Identification and Monitoring System are installed in the main entrance, stepping up our endeavour for enhanced security system.
- Provide power supply to Hydraulics lab and heat engine lab for turbines with installation of panel board and cabling works.

Placement and Training Cell

FISAT has a vibrant Placement and Training Cell. The students are groomed according to the requirements of the industry. The Cell has been successful in placing all the eligible students in MNCs like Microsoft, TCS, IBM, SAP, CTS, L&T, Wipro, UST Global, IBS, Core companies like MRF, Sobha Ltd, VVDN, Tata Elxsi, Nissan, Defence Services, Civil Services, Kalkitech, Government and Public sector companies like BARC, ONGC, Power grid, Indian Railways and Commercial banks like Federal Bank, Standard Chartered Bank and South Indian Bank, to name a few.

For placement and training we have signed MoUs with ICT Academy for knowledge sharing and also entered in academic partnership with Keltron, TELK, TCS, HMT, UST Global, open Trends (Barcelona) and Texas Industries for internship/ remote industry training.

Placement Status - 2018

Number of offers: 328

Companies recruited: 42

Highlights

- Two students placed in Nissan Digital – 9 lakhs per annum
- One offer in SAP - 8.6 Lakhs per annum
- 80 offers in TCS
- 4 offers from Sobha Ltd.
- Conducted training programs for 10 days, in total for all students and spanning over 6 dates.
- Company specific trainings for final year students by conducting 4 Online practice tests.
- A Three-day soft skill workshop was conducted for second year students.
- Major Recruiters - TCS, Nissan Digital, Sobha Ltd, TATA Elxsi, SAP, UST Global, Cognizant, Infosys, IBS, Wipro, Ruby Seven, Qburst, Wrench Solutions, VVDN, Digital Core Technologies, Open Trends, Experion, MIL Control, Poornam Infovision, 6D Technologies, Hexaware,

Poornam Infovision, IBM, Experion, IBS, Ruby Seven Studios, Zerone Technologies, CoralBusiness Solutions, MIL Control, FACE, Ignito, Nine leaps, Amazon India, Byjus App, Dexlok, Travancore Analytics, Analytics Quotient, Armia Systems

Placement Status – 2019

- Number of offers – 595 (Largest Number of offers in FISAT so far)
- TCS, Nissan Digital, Sobha Ltd, TATA Elxsi, SAP, UST Global, Cognizant, Infosys, IBS, Wipro, Ruby Seven, Qburst, Wrench Solutions, VVDN, Digital Core Technologies, Open Trends, Experion, MIL Control, Poornam Infovision, 6D Technologies, Hexaware, Poornam Infovision, IBM, Experion, IBS, Ruby Seven Studios, Zerone Technologies, Coral Business Solutions, MIL Control, FACE, Ignito, Nine leaps, Amazon India, Byjus App, Dexlok, Travancore Analytics, Analytics Quotient, Armia Systems, Federal Bank, Mitsogo, Apollo Tyres Ltd., JSW Living Pvt.Ltd., SAP, Litmus 7

Department of Civil Engineering



Activities

- Conducted Add on Course on Building, Planning and Drafting -"Imagination and Beyond" by Mr. Sreerath S and Ms. Lidiya PM from 2nd July to 13th July 2018.
- Conducted 5 Day Faculty Development Programme on "Design of Steel Structures" from 16th to 20th July 2018.
- Conducted Technical Lecture on "CEMENT" by Mr. Sebin Jose (Asst. General Manager, Heidelberg Cement) on 4th October 2018.
- Conducted Invited talk on "ERGONOMICS" by Mr. Manoj Thomas (TCS) on 10th October 2018.
- Conducted talk on "Disaster Management" by Mr. Jawahar Saud S (Assistant Professor, Civil Dept) on 29th October 2018.
- Conducted Meet the department for 2018 Admission on 5th November 2018.
- Signed MoU with Kerala State Remote Sensing and Environmental Centre. Conducted Digital Mookkannoor Project under the MoU.
- Organised Build Expo NIRMAN 2k19 at CSA Hall, Angamaly on 8th and 9th March 2019 inaugurated by Roji M John, MLA.
- Third National Conference on Structural Engineering and Construction Management (SECON' 19) on 15th and 16th of May 2019 - Publication in Springer, Inaugurated by C

- Pratapmohan Nair from PricewaterhouseCoopers Ltd. and Dr.Radhakrishna Pillai, IIT Madras
- Conducted quiz on World Water Day on 22 March 2019
- Building Planning workshop on 28 March 2019 and 1 April 2019
- Conducted Mix Design competition CUBIX for S5 students
- Site Visit to Champakkara Bridge, Thripunithura, Kochi on 16 March 2019
- Site Visit to Zuari Cement plant, Willington Island, Kochi on 6 April 2019
- Aavishkar2k19, Final Year Project Expo on 8 May 2019

NIRMAN 2K19

08.03.2019

An aerial view of Nirman2K19 - A Build Expo organised by the Department of Civil Engineering





KSREC TRAINING

JAN 12 2019

- Dr Suresh Francis, Chief Scientist inaugurates the Earth mapping Survey at Mookkanoor Panchayath. Ms Jaya Radhakrishnan President Mookkanoor Panchayat, Mr Biju Palatty Vice President MKNR Panchyath, Dr George Issac Principal FISAT were also present.

Student Achievements - External

- Ms Deepthi Stephen and Mr. Joel Joy won the best paper award for Second National Conference on Structural Engineering and Construction Management
- 3 Students of seventh semester completed online course on "Human Trafficking Awareness for the General Public" conducted by Stanford University.
- 14 Students of seventh semester completed online course on "Natural Capital Approach in Department of Défense Environments" conducted by Stanford University.
- MA Harikrishnan won third place in All Kerala KTU inter zone basketball
- M A Harikrishnan secured first place in KTU zonal basketball
- MA Harikrishnan secured first place in AISAT cup in basketball
- MA Harikrishnan secured third place in NIT cup in basketball

- MA Harikrishnan secured third place in 3 's basketball at NUALS
- Vinaya Murali won second place in KTU zonal chess competition
- KavyaJerish won KTU Interzone Table Tennis tournament
- Mr. Sreekumar Shenoy and team Won Mokshagundam Visvesvaraya prize for B. Tech Final year project competition-ProComp 2018-19 held on 03.08.19 at AISAT jointly organized by Graduates Association of Consultant Engineers (GRACE) and Albertian Institute of Science and Technology.
- Ms. Blessan Baby won first runner up in the Debate competition conducted by Maria Philip foundation, XIME, Kalamassery.

Staff Achievements

- UnniKarthaG completed PhD from Cochin University of Science and Technology, Kochi
- Asha Joseph completed PhD from Cochin University of Science and Technology, Kochi
 - Ms. Nincy Jose was awarded the top mentor award by NPTEL for the course Theory and Practice on Non-Destructive Testing

Publications from the Department

- Kartha, G. Unni, K. S. Beena, and CP Mohamed Thahir. "Shake Table Studies on Embankments on Liquefiable Soil." Soil Dynamics and Earthquake Geotechnical Engineering. Springer, Singapore, 2019.
- Chandana M., Unni Kartha G., Mahesh C., "Time Optimization of Parallel Dynamic Analysis using Greedy Algorithm in FEA", Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Amrutha Anilkumar & Dr. Kavitha P E, Numerical analysis of windowed steel tube embedded in concrete, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Chandrakanth K & Dr. Kavitha P E, Shear strengthening of RC deep beam using steel Plates, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Aiswarya Hari & Dr. Kavitha P E, Effect of acid environment on bond durability of basalt fibre reinforced polymer bars and steel bars embedded in concrete, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Samithamol Salim & Dr. Kavitha P E, Experimental study on strengthening of steel beam using carbon fibre reinforced polymer sheet, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer

- Azmil Bani K & Jiji Antony, Light weight foamed concrete as a substitute for bricks in framed structure, Third National Conference on Structural Engineering and Construction Management (SECONI 9), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Asha G & Jiji Antony, Experimental investigation on strength and durability of fly ash and GGBS based geopolymer concrete, Third National Conference on Structural Engineering and Construction Management (SECONI 9), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Neha H, Ramees Hassan, Sonia Shaji, Sreelakshmi PV & Abin Thomas CA, Development of SCC mix using jute and coir as additives, Third National Conference on Structural Engineering and Construction Management (SECON '19) at Federal Institute of Science and Technology, Angamaly Part of the Lecture Notes in Civil Engineering book series, Springer
- Ann Maria Santhosh & Abin Thomas C A, Experimental studies on brick powder replaced concrete exposed to elevated temperature, Third National Conference on Structural Engineering and Construction Management (SECON '19) at Federal Institute of Science and Technology, Angamaly. Part of the Lecture Notes in Civil Engineering book series, Springer
- M B Amrutha Balan & Abin Thomas C A, Experimental study and optimisation of best performance self-compacting recycled aggregate concrete, Third National Conference on Structural Engineering and Construction Management (SECON '19) at Federal Institute of Science and Technology, Angamaly. Part of the Lecture Notes in Civil Engineering book series, Springer
- Sreelakshmi T BeenaB R, Finite element analysis of hybrid bonded FEP strengthen system, Third National Conference on Structural Engineering and Construction Management (SECON '19) at Federal Institute of Science and Technology, Angamaly. Part of the Lecture Notes in Civil Engineering book series, Springer.
- Asha, J., and Glory, J. (2019) Fluid - Structure- Soil Interaction Effect on Dynamic Behaviour of Circular Water Tanks, International Journal of Structural Engineering (Inderscience), 10(1), 25-39
- Meeval Maria Bibin and Asha Jospeh, (2019) Seismic performance evaluation of self centering moment resisting frame, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Shilja Sureshkumar and Asha Joseph, Evaluation of structural response of ground supported cylindrical water tanks to static and harmonic loading, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer

- Sheba Susan Abraham and Asha Joseph, Performance evaluation of polyurethane cement composite as a retrofit against seismic loading, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, part of the Lecture Notes in Civil Engineering book series, Springer
- Ashwin Hari, Abhirami Vinod, Anzil Ameen Noushad, Jerry Joseph Danty and Asha Joseph, Mechanical and durability characteristics of bacterial Concrete, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT. Part of the Lecture Notes in Civil Engineering book series, Springer
- Reenu Eldhose & Reshma Prasad, A study on effect of shear connectors in the structural performance of steel-concrete-steel sandwich shear walls, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Sooraj Babu & Reshma Prasad, Effect of bracings and shearwalls on seismic performance of buildings situated on sloping region, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Vaisakh P V, Neeraja Nair, Seismic analysis of transmission tower line systems, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Merry James & Neeraja Nair, Seismic performance analysis of vertically irregular structures with diagrid, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Devu K, Sreerath S, "Experimental investigation on partial replacement of cement with fly ash and glass powder", Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Ashly Joseph, Sreerath S, "Experimental investigation on fresh and hardened properties of hybrid fibre-reinforced self-compacting concrete" Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Swathi & Resmi K N, Experimental studies on fly ash-based basalt fibre reinforced concrete, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Riya Tomy & Resmi K N, Mechanical and durability properties of microbially induced calcite precipitated polypropylene fibre reinforced concrete, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer

- Lakshmi Priya & Gayathri Krishnakumar, Cyclic response of reduced beam section, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT, Part of the Lecture Notes in Civil Engineering book series, Springer
- Krishnapriya M R & Gayathri Krishnakumar, Seismic performance evaluation of hybrid coupled walls, Third National Conference on Structural Engineering and Construction Management 2019, FISAT, Part of the inCivil Engineering book series, Springer
- Gayathri Krishnakumar & Airin M G, Review of IS 1893-1(2002):- effect of unreinforced masonry infill walls on seismic response of framed structures, Third National Conference on Structural Engineering and Construction Management (SECON19), May 2019, FISAT

Department of Computer Science and Engineering



Activities and Achievements

- CSE Students (2015 Admission) got second highest position in overall S8 KTU examination results with 93.91 % pass percentage.
- CSE RESEARCH CENTRE STARTED; CSE Department started Research with the approval of recognition of research guide by Kerala Technological University (KTU) from 2018 academic year onwards. Dr.Arun Kumar is also an approved research supervisor of KTU and Visvesvaraya Technological University (VTU), Belgaum, Karnataka. The objective of the research centre is to achieve a high-quality research ambience by
 - Creating an enabling environment within C SE department
 - Creating the culture for inter-disciplinary collaborations.
- INAUGURATION OF FCS: The inauguration of FCS - FISAT Consultancy Service was done by Mr. Hasum Jacob , The head of Digital Enterprise Unit at Tata Consultancy Service, Japan on 11th February 2019. Mr.Hasum Jacob is the advisory board member of the department from 2016 onwards. He appreciated the facilities, and motivated students to effectively utilize the best opportunities to become professional students with experience by actively participating with the opportunities offered by FCS. The function was commenced by the welcome speech of the Head of Department of Computer Science, Dr. J. C. Prasad. FISAT Consultancy Service, is intended to build a futuristic innovative opportunity for students. It includes services

involving UI/UX design, mobile application, Web design and development, graphic design, Application software developments and Workshops.

- RESEARCHER GRANT: Mr. Jestin Joy, Assistant Professor CSE DEPT, received Researcher grant from NVIDIA worth 1.5 lakh for HPC research
- MoU Signed with Xplore IT Corp: CSE Department had signed a MoU with Xplore IT Corp. Xplore IT Corp Training Institute in Coimbatore is providing various professional training courses for multiple technologies. They are the best leading IT Training institute in Coimbatore that provides Java Training, PHP Training Course, Android Training, Ethical Hacking Training, Python Training and Embedded Systems Training for Students, job seekers, working professionals, etc. It was a milestone in the history of FISAT to enrich students and staff members in FISAT. Sri Satheesh Chandran K R Head -Sales & Marketing.
- MoU with 'HORTARI TECHNOLOGIES PRIVATE LIMITED': CSE Department signed a MoU with 'Hortari Technologies Private Limited' on May 9 2019. The main objective of this MoU is to stimulate and facilitate the skill development of college student through Hortari platform and other services provided by the Hortari. They provide dedicated "Performance Coach " for the college students. The coach will communicate with students and assist on student's skill development activities. They will also provide programs such as Mentorship Programs, Organizing Hackathon, Workshops, Guest lectures, Seminars.

FINAL YEAR FAREWELL

Hearty Farewell was arranged to final year (2015-2019) batch students on 14 May 2019 at MBA seminar hall by management, staff and students.

FACULTY PUBLICATION

- Dr. Paul P Mathai published a paper " Machine Learning Approaches Used For Prediction in Diverse Fields " in the International Journal of Recent Technology and Engineering.
- Mr .Jestin Joy published a paper "SiLearn: an intelligent sign vocabulary learning tool" in the Journal of Enabling Technologies.
- Mr.Pankaj Kumar G published a paper "Segmented Keyframe Extraction" in the proceedings of the National Conference on Communication Systems(NCOC S — 2019) ,NIT Pondicherry.
- Mr.Pankaj Kumar G published a paper "Optimization Of Logistic Regression Using Elephant Herd Optimization" in the proceedings of the National Conference on Machine Learning and Artificial Intelligence.
- Ms.Hema Krishnan published a paper "Dual Sentiment analysis using Convolutional Neural Network" in the Journal of Advanced Research in Dynamical &Control Systems(Scopus)
- Ms. Siyamol Chirakkarottu published a paper "Image encryption using chaotic maps and DNA cryptography: A comparative analysis "in the Journal of Advanced Research in Dynamical &Control Systems(Scopus)

- Mr.Jestin Joy published a paper "Developing a bilingual mobile dictionary for Indian Sign Language and gathering users experience with SignDict" in Assistive Technology (SSCI, Scopus)
- Mr.Jestin Joy published a paper "SignQuiz: A Quiz based tool for learning fingerspelled signs in Indian Sign Language using Automatic Sign Language Recognition" in IEEE Access.(S CIE, Scopus)
- Mr.Pankaj Kumar G and Dr. Arun Kumar M N presented a paper "Artificial terrain generation for computer games from user description" in International Conference on Artificial Intelligence and Machine Learning (IAIM2019).
- Dr. Prasad J C presented a paper "Flood Monitoring and Prediction Using Phylogenetic Tree Generation System based on UPGMA method for Kerala: A prototype Tool for Decision Assistance" in the International Dam Safety Conference - DIP 2019.
- Dr. Paul P Mathai published a paper "SasyaSneha — An Approach for Plant Leaf Disease Detection", in the International Journal of Advanced Trends in Computer Science and Engineering, Vol. 10, Issue 5, October 2019. (Scopus)
- Dr. Paul P Mathai published a paper "Machine Learning Approaches used for prediction in diverse fields", in the International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-2S4, July 2019 (Scopus)

BEST MAIN PROJECT AND DESIGN PROJECT AWARD WINNERS

Main Project

First Prize: Image Impainting using deep neural network architecture -Akhil Joy S8 CSA

Second Prize:Robotic Glove -Mehjabin Mujeeb S8 C SB

Design project

First:Social Robot: Leo Varghese,Renjith K R, Sandeep Remesh,Yedin Kizhakkethara(S6CSB)

Second: ARIMAA -Anagha Zacharia, Abhirami G, Gopika Raj K, Hridhya Soman (S6C SA)

INTERNSHIP PROGRAMS

CSE Dept organised two internship programs for second year students i) Machine learning internship, ii) development internship . Internship was offered by Mr.Pankaj Kumar, Asst.Professor, Dept of CSE. The students were encouraged to do a minor project during internship. During the Machine learning internship program, students were given training ML libraries and introduced concepts of regression, clustering and classification. During the web development internship activity, students were given training in HTML5, CSS Javascript, Bootstrap, Flask etc.

PROMOTIONS/ACHIEVEMENTSBYSTAFF

- Dr. Arun Kumar MN got promoted to Professor,
- Dr.JyothishKJohn promoted as Associate Professor

- Dr. Paul P Mathai promoted as senior grade.
- The team including NIR ANURANJ won the champions of Albertian & Paulist Cup, Kalamassery

LIST OF FACULTY WITH 100 % RESULT

B.Tech

- HemaKrishnan(System Software -S6 CSB(2016Ad.year))
- Shimy Joseph (Artificial Intelligence -S8Elective (2015Ad.year))
- HansaJThattil (Data Structures -S8GlobalElective 2(015Ad.year))
- RemyaR(WebTechn010gies-S6B (2016Ad.year)M.Tech (2018 Ad.year)
- Advanced Data Structures-Preethi N P
- Operating System -Jestin Joy
- Computer System Design and Architecture-Paul P Mathai
- Data Mining Concepts-Ms Lakshmi S
- Algorithm Analysis and Design-Dr Arun Kumar M N
- Advanced Computer Networks-Dr Jyothish K John
- Computer Security and Applied Cryptography- Mr Pankaj Kumar G
- Natural Language Processing & text Mining-MS .Anitha T Nair
- Advanced Database Concepts-Dr .Paul P Mathai

TOPPERS

- S5 S6Nousheen Sulthana(9.54), Gayathry S(9.36),NithaMaria Shaju(9.26)
- S7 S8 Sweetsy Maria Jerome(8.84) ,Sweety Elizabeth K(8.79)

STUDENTSACHIEVEMENTS

- Ajay Diji has secured 1st place in zonal basketball tournament held at Model Engineering College
- Represented FISAT in international basket tournament held at Mohandas college of Engineering and secured position
- Represented KTU in the south zone basketballtournament held atat SRM Chennai
- Represented Ernakulam inthe all Kerala state championship securing 3rd position
- Secured 3rdplacein shotput and 1stplace in 200m in sports held at our college
- Joe has secured 1st place in zonal basket tournament held at Model Engineering College
- Represented FISAT in interzonal basketball tournament held at Mohandas college of engineering and secured 3rdposition.
- Paul Ellias of S 1 CSB has secured 215th Rank in MicrosoftAI challenge 2018
- Zacharia Jiny (S6 CSE B) Nikhil Thomas (S3 CSE B), Basil Leju (S2 CS A) and Arjun Krishna J G

(S2 CSA) got 2nd prize in Ideathon competition conducted by TKM college in association with IEDC and IEEE. They got direct entry to KSUM IdeaFest

- Nandini Menon (S6 CSE B) is selected as KTU 's outstanding Sport Person of the year.
- Ajay Nair of SICS A has secured 3rd position Encrpta 2.0 code with fun conducted by IEEE NSS
- Nandini (S7 CS B) & Ananya Ajith (S 1 CS A) won KTU inter zone table tennis tournament
- Linda Joy and Maria Sajan of (S5 CSE A) got first prize for paper presentation at NIT TechFest.
- Linda Joy and Maria Sajan of (S5 CSE A) got first prize for paper presentation "Euphoria 2K19" at Rajagiri School of Social Science.
- Anagha Zacharia (S7 CSE A) got second prize for paper presentation "Euphoria — 2K 19" at Rajagiri School of Social Science.
- Mr. Nikhil Mathew (S4 CS B) and Mr. Zacharia Joshy (S6 CS B) won second prize in 'idea Pitching' competition held at T K M Engineering College as a part of technical fest 'EVOKE'19
- Aswin Kumar K S, Abijith and Dilip Vijayakumar (S6 CS A) presented a paper titled 'cartoonisation of images' in National conference at Viswajyothi college of Engineering, Muvatupuzha.
- Jerin Jayaraj (S6 CSA) and Paul (S6 CS B) presented a paper titled 'peer to peer file sharing systems ' in National conference at Viswajyothi college of Engineering, Muvatupuzha
- Fathima Salim secured 3rd prize for chess in KTU D Zone
- The team including Visrutha Arundhathi (S5 CSA), Honey Mariam Babu (S2 CSA), Anagha S (S2 CSA) Sona Grace (SS CSA) Swathy S (S7 CSA) Ananya T Jith (S 1 CSA) won APJ KTU Zone
- Aneeta Roy of S3 CSE A got selected for APJ Abdul Kalam Technological University CHESS(W) team in South Zone Inter Tournament.
- The team including Nimitha Joseph (S5 CSE B), Aneeta Roy (S3 CSE A) Tania M Manoj (S1) Snehalal C V (S1 CSA) got second runner up in KTU D ZONE (G) Badminton Tournament at MACE, Kothamangalam.
- Sidharth S Won second prize for the event QFIEDRE in ETERNIA '19, held at Saingit's college of Engineering, Kottayam.

WORKSHOPS

- Two-day workshop on 'Women Hackathon', was conducted in association with ICFOSS was a hackathon exclusively for women which aimed to connect and inspire women. Women hackathon provided both an opportunity to create space that would make women leaders of technology and an attempt to solve social problems which could improve the lives of women around the world. It was a two-day workshop.
- Mr. Mahesh C, Asst. Professor, CSE Dept conducted Moodle workshop on 8th February 2019 in Computer Lab. Around 30 interested faculty members participated. Moodle is a software that can be used to conduct viva, online exams, giving notes to students.
- Workshop on Linux Installation and Dual Boot
- Workshop on OS installation was conducted by S4CSB students on CCF Lab 9 on 28 March, 1st & 2nd April 2019. Main topics covered were OS installation, Dual OS installation, Driver

installation. S2 and S4 students participated in the session.

- Workshop on Introduction to "Linux DISTRO FEST" FISAT Free Software cell (FFSC)
- FFSC FISAT conducted an event "Linux DISTRO FEST" for the first year B.Tech students on 20 September 2019 at Microprocessor Lab. Introduction to FOSS, Linux Environment, Installation of Linux, Familiarization of different Linux Distro and Desktop Environments were discussed in the event.
- A workshop was conducted for three days by ICT Academy Kerala : Dr Sreekanth, Mr Sreeraj, Nithin P S Coordinated the workshop. The instructor introduced us to different sensory modules like Ultrasonic sensor, Temperature Sensor, LDA and implemented different projects based on them. We were introduced to the concept of cloud storage and its advantages. He taught us to use ThingSpeak to upload output from our sensors and how others can read the outputs from ThingSpeak. On the third day, we uploaded the sensor values to Ubidots. The primary advantage of Ubidots over ThingSpeak is that there is less time gap for free accounts (for 30 days). The third day concluded with a valedictory function with vote of thanks by our HOD and students. The certificates of the workshop were also distributed to the participating students.

VISIT TO BIENNALE

As part of the study of design and engineering in the second semester, students of S2CSEA were taken to the Kochi Muziris Biennale on 29th February 2019. Sixty-three students and faculty members including Dr. J.C. Prasad, Mr. Jiby Varghese, Mrs. Sruthy Suresh, Mrs. Shimy Joseph and Mr. Gismon Alias were also a part of this visit to Aspinwall, which housed the major installations of this art exhibition. The theme of this year's biennale was possibilities of a non-alienated life. There had been a lot of installations from various Indian and foreign artists that allowed the students to witness and comprehend different cultures and art from across the globe. The visit had an overwhelming response from the entire group of students and faculty who were a part of this journey and it surely had provided a wonderful experience to all.

SAMANWAYA2K19

Department of Computer Science & Engineering organized Alumni meet "Samanwaya2K19" on 13th April 2019 at MBA seminar Hall. It was an incredible reunion of alumni, faculty and staff members. Around 100 Alumni attended the meeting and gave their valuable feedback and suggestions for the betterment of Institute and CSE Alumni Association. We had a fruitful discussion regarding the growing needs and challenges and steps that could be taken to mould department's vision and mission to cater to modern cooperative world's demands.

ADD ON COURSE ON C PROGRAMMING

FISAT Consultancy Services an initiative of CSE department of FISAT, came with a different approach to provide an add-on course to interested students of other departments to have a basic knowledge on C-programming. The course mainly focused on providing the basic knowledge to students those who are not having any CS background, the course offered introduction to C Programming, general ideas on conditional statements and their working, students attended were given several questions to improve their programming skills. Basics programs were given in the initial phase and later on the difficulty level was increased based on the syllabus covered in the previous sessions. Students from S5 of other departments (non-CSE) attended the class. The course duration was from April 25- May 6 2019. The sessions were handled by Sreehari C P, Sweetey Jerome, Rishad & Vysakh, under the strict guidance of Mrs. Chethna Joy Asst. Professor CSE dept. FISAT. The students were requesting to provide additional programming questions for their training during the upcoming placement and academics.

PYTHON CLASSES

FISAT ACM chapter organized classes on Python to ACM students from 15th October to 17th October 2019 under the leadership of Devu and Paul

CELESTIA'2019

Celestia 2k19 was conducted on 9th May 2019. The quiz was conducted in two rounds, first round, a one hour written test based on 20 objective questions and a total of 14 teams participated. A total of seven teams qualified the first round and five teams were selected from them after a tie-breaker round.

CELESTIA2K19Winners

Prebition Paul & Nevin Joshy S4 C SB

Kerala Blockchain Academy Innovation Club (KBAIC) —FISAT: Kerala Blockchain Academy is an initiative by the state government under the Indian Institute of Information Technology and Management—Kerala (111TM-K). Kerala Blockchain Academy Innovation Club (KBAIC) is a novel initiative by Kerala Blockchain Academy (KBA) to help students from academic institutions across the country to explore deep into the potential of the blockchain technology. KBAIC-FISAT focus on enabling our innovative minds to learn and explore Blockchain technology and to apply this emerging technology for the good of humanity. KBAIC offers workshops and internships on Blockchain at FISAT campus which will be organized by Department of Computer Science and Engineering.

SMRITHI CODING CONTEST

Smrithi coding contest was conducted on 24 April 2019. 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 10 teams of 2 students each participated the event.

SPECIAL ONAM CELEBRATIONS

Onam was celebrated on September 7 2019 with pomp and gaiety. S1CSE A batch students bagged first prize for pookala malsaram. Many events such as the pookala malsaram tug of war, Malayali Manka, Kerala Kesari which reflects the spirit of Onam were held. CSE Students visited and shared food in the following places as charity program from the contribution of CSE students and staff.

1. Thiruhirudaya Sadanam Mookkannoor
2. AkasaParava, Malayattoor,
3. CMC Mariam House Kariad,
4. Immanuel Orphanage, Azhakom,
5. Kripasadanam OldAge Home, Karayamparambu.

LOYAL MEMBERSHIP AWARDS

FISAT was recognized as a loyalty member of ICT Academy of Kerala (ICTK). It is a premium membership for academic institutions. ICTK offers different services which includes: train the teachers on Life Skills Training, Conducts Employability Quotient Test (EQT) to the students with detailed report. Free copies of ICATK yearly magazines. Minimum 100 students will be trained on various technology through their partner program.

SELF LEARNING LAB:

CSE department of FISAT started self-learning labs. Self-learning is promoted by providing access to our creative space, equipment and library and allows one to work on projects when it's convenient for them. Self-learning does not include any instruction. The students can do a periodical self-evaluation to measure the progress as well as evaluate their program skill.

Orientation Program for first year CSE students: Students need a proper orientation for evolving and integrated approach towards engineering studies and development of overall personality.

Website launched for fifth international conference - ACCTPHA: Official website for fifth international conference "ADVANCED COMPUTING AND COMMUNICATION TECHNIQUES FOR HIGH PERFORMANCE APPLICATIONS" (ACCTHPA) has been officially launched by our principal Dr George Issac. Accepted papers will be published in IEEE Xplore.

CONSULTANCY WORK

SL.No:	Project Title	Funding Agency	Amount	Duration
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1	IT Infrastructure Development(jithesh)	Magic Planet		December 2018-April 2019
2	Farm Management Software(fcs)ribson	Sacred Heart Monastery Thevara	Rs. 25,000	March 2019 - April 2019
3	Website Design(fcs)	Petsday	Rs.10, 000	January 2019 – February 2019

SEMINAR/TALKS

1. A Special talk on Impact of digital technologies "An insighters view"

A session by Hasum Jacob T, Head, Digital Transformation Services TCS was conducted for the students of the CSE Department on 8th February 2019. He motivated the students about the importance of digitization and its increasing prevalence on human life for the last few decades. His speech on 'Digital Technology —Insider's view' gave a thorough outlook on the world from a different perspective. His speech had thrown light into technological innovation, that has created an opportunity for learning and growing together.

2. A talk on BLOCK CHAIN

Sosu Alex, Blockchain Technical Architect at Tata Consultancy Services conducted a talk and hands on session on "Introduction to Blockchain" on 19th February 2019. She introduced opensource projects like Linux Foundation supported Hyperledger for Blockchain technology.

3. STORAGE,LIFEAT DELL & INTERVIEWS

Anand J, Alumni of CSE and Software Engineer at DELL EMC gave a talk on Storage, Life at Dell and Interviews on 22 March 2019. He gave an insight about how huge the "storage" field is in the industry and how it is beyond the USB 's or hard disks that can carry.

4. Talk on Agile Technologies on Software Developments

Ms Roopa K Nair (Agile Ninja Coach) and Ann Mary Chacko(Project Manager TCS) gave an overview about the concept of Agile technology and SCRUM Methodology. Around 50 S6 students participated the session.The session was extremely enthusiastic and created a sense of competition and interest among all students. As a whole the session was truly remarkable and informative.

5. Talk on Future Carrier Options

A talk was given by future carrier was given by Avinash Heston and his team from Byju's on 12 March 2019.They motivated the students by sharing their experiences. They gave an idea about Indian Exam etc). They gave proper guidance about various online courses and projects to take up and research papers to submit. Including YouTube channels like sirajravel and 2 minute papers.Around 40 Students from S3 and S5 CS attended the session.

6. Network Security & Ethical Hacking

An interesting session on ethical hacking was conducted to CSE students by two renowned persons Mr Abhimanyu E and Mr Kaviraj S. Both holds a valid certification on ethical hacking. They familiarized the rules and regulations that has to be followed in India in order to do legal hacking and familiarized about various tools that has been used with hacking. They also demonstrated examples by hacking mobiles by simply sending text messages when opened gets hacked. Around 80 students participated the session.

7. Alumni interaction by Mohammed Farhan(18 February) and S Vaishak(21 February)

Mohammed Farhan, CSE alumni and Security Consultant at Synopsys Software integrity Group talked on importance of taking up research and development opportunities. He focused on suggestions on taking up learning opportunities for generating exploitable knowledge, technologies, new products and processes. The emphasis on continuous learning to ensure all skills stay relevant to the industry we work with. Applying research methods to this learning provide capability to analyse and improve using qualitative and quantitative methods.

8. Vaisakh CSE alumni and developer at Tata research development band Design centre Pune emphasised on selecting the right domain that suits an engineer. As part of software industry, there are various domains that one can stick on to. This needs to be selected based on one's interest towards the domain, opportunities for the domain and capability to grow in the selected domain in the organisation one is part of. He quoted various examples from his organisation and motivated the students on learning towards excelling in the domain of their interest.

WORKSHOPS

RECRUITMENT TO FCS ANDROID GROUP: A recruitment drive was conducted on February 1 2019 by the team FCS in M.tech Lab. Students were asked to develop an Android application of FCS, which was a criteria for recruitment to FCS. Based on their performance students were filtered for HR interview. FCS team members- Binil Kuruvila Joseph, Anagha Zachariah, Sreehari CP, R.Vysakh conducted HR and TR interview. The tasks and overall performance of the participants were evaluated by Rishad and the top students based on their marks scored in the above procedure were recruited to FISAT Consultancy Services.

1. RECRUITMENT TO FCS WEBSITE GROUP

FISAT Consultancy Services (FCS), conducted a one-day workshop in the CCF lab on Web Development on the 31st January, 2019. The workshop was lead by Sreehari CP, the student head of FISAT consultancy service as speaker and received an overwhelming response of 15 participants from first, second and third year of Computer Science Department. The workshop was based on Web Designing which mainly focused on the basics of web languages like HTML, CSS, Java script. By the end of the workshop students were asked to design and develop their own website. The website helped them to have hands- on experience in web designing, which was a criteria for recruitment to FCS.

2. CYBER SECURITY AND ETHICAL HACKING

FISAT Consultancy Services (FCS) an initiative of CSE Department FISAT, conducted a two day workshop in the CCF lab 6 about "CYBER SECURITY AND ETHICAL HACKING" on 9th & 10th March,

2019. The workshop was lead by Sreehari CP, Certified Ethical Hacker as well as the student head of FISAT Consultancy Services. The workshop received an overwhelming response of 65 participants which included 35 participants from other colleges from different branches and 30 participants from FISAT residing in different branches. The workshop included introduction and familiarization of different hacking tools of KALI Linux and provided a hands-on experience for the participants. A challenging CTF was introduced to participants to enhance their competence and team spirit. First prize of Rs1000/- was awarded to Gautham Krishna and Jibin George (FISAT), Second prize of Rs900/- was awarded to SheminAnto and Shreyas Kumar (FISAT), Third prize of Rs300/- was awarded to Amit aAjay and Hridya (FISAT).

Department of Electrical and Electronics Engineering



ACTIVITIES

Conducted a three days in-house Add on Program on "C Programming Fundamentals" for 2017 Admission EEE students from 9th to 11th July 2018. The resource person was Mr. Muhamed Noufal C, Assistant Professor, Dept. ofEEE.

The Department organised a twoday Faculty Development Program on "Distributed Generation and Smart Grid" on 27th and 28th July 2018. Around 30 Faculty from various engineering colleges around Kerala participated and the program was well appreciated. Following were the sessions conducted.

"Smart grid and smart substation" by Dr.K. Shanti Swarup Professor, 11T Chennai.

Two sessions by Dr.Harikumar. R, Professor, College of Engineering, Trivandrum on "Smart grid communication infrastructure" and "Micro grid and its control". A session by an industrial expert Mr. Christo George, Chairman & Managing Director, Hykon India Ltd. He shared his experience in Grid connected solar power plant projects.

Dr.Kumaravel S, Professor, NIT Calicut lectured on "Technical challenges of grid connected distributed generation". Mr.Brijesh P, Principal Engineer, Power Electronics Group, CDAC, Thiruvananthapuram shared a case study on Design and implementation of off-grid micro grid using renewable sources.

"Meet the Department" on 1st August, 2018 - a familiarization session organized by the Dept of EEE yearly, where the first-year students get an opportunity to meet all the faculty of the Department. The department is coordinating "Energy Quiz" an All-Kerala Quiz competition organized by the KSEB Engineers ' Association on 21st November 2018.

1. Workshop on "Fire Hazards and Fire Fighting Equipments" in association with the Department of Mechanical Engineering on January 25, 2019. Mr.T.B.Ramakrishnan, Station Officer, Fire Station, Angamaly and Mr. Rahul V, Fire Guard, Angamaly were the resource persons.
2. The students of S2 and S4 were taken for an exhibition of the latest electrical equipment for the upcoming practising engineers organised by KELCON, an association of practising professional engineers on March 2, 2019.
3. Seminar on "An Introduction of Building Electrical Design using Revit with Principles and Essential Calculations", by Mr. Viju Antony, Director, M/S Coretech Solutions for 2015 Admission students on March 5, 2019.
4. Soft skill training by Mr. Krishnakumar and Dr. Mridula for 2017 Admission students from March 8, 2019 to March 11, 2019.
5. Seminar on "Opportunities for Higher Studies" by Byju's App for 2015 Admission students on March 12, 2019.
6. Seminar on "Introducing Soura Project" by KSEB Nodal Officer for Soura project on March 12, 2019.
7. College Level Seminar competition by KSEB where 14 students participated for selection to Zonal level competition on March 15, 2019.
8. Rendezvous 2K 19, first alumni meet by the Department of EEE on March 16, 2019.

9. Selected students from first year EEE participated in an Election Awareness program organised by the college on March 17, 2019.
10. Hands on workshop on "Design Thinking" by a team of experts from Interactive designLAB, TCS headed by Mr. Anas KA, Head, TCS Interactive designLAB for 2017 Admission students on April 26, 2019.
11. Workshop on "Introduction to LaTeX - a documentation tool" by Parvathy R to 2015 Admission students on April 12, 2019.
12. The Department organised the yearly final year project expo "Illuminar" on May 14, 2019. One of our Alumni, Mr. Naveen R, Robert Bosch Engineering and Business Solutions Pvt Ltd accepted our invitation to judge the students' projects. Three awards were distributed.
13. Edison Award for best innovative project: "EMO - BOT", Madhukrishna S Menon and Medha A "Wireless fast charging of electric vehicles with renewable energy" - Amritha P.R, Anand K Ashok, Gopikrishna R
14. Faraday Award for best completed project: "Stable balancing of inverted pendulum" - Megha Devaraj, Muhammed Nihal M, Riyaz Ahammed M, Sukhoi Stephen.
15. Tesla Award for the best socially relevant project: "Smart waste bin for smart waste management" – Anjana Anilkumar, Darsan N, Ekaa M Nair, Nimitha Mary Mathews.
16. Conducted the eighth session of "Learn from Great Minds", a lecture series organised by the Dept. of EEE. Mr. Naveen R, Robert Bosch Engineering and Business Solutions Pvt Ltd gave a talk on "X-by-Wire Systems - Advent of Electronics in the Automotive Industry" on May 14, 2019.
17. Organised a Final Year Farewell for 2018 B. Tech students on May 15, 2019 in which "The Best Outgoing Student" Award was given to Medha A.
18. National Conference on "Recent Advancements in Power Electronics and Power Systems" on May 21, 2019 and May 22, 2019. The sessions were handled by the following eminent academicians in this field
 - "P2P Energy Transactions In Microgrid" by Dr. Vivek Mohan, NIT, Trichy
 - "Recent advancements in Power Electronics" by Dr. Jagadanand G, NIT, Calicut
 - "Microgrid and its possibilities in Kerala" by Dr. Bobby Philip, SCT, TVM

STAFF ACHIEVEMENTS

- Parvathy R submitted the PhD Thesis and she has received the Best Teacher Award for the year 2018.
- Surya Susan Alex submitted the final synopsis of PhD Thesis.

The following faculty got admission for PhD in various universities

- Cochin University of Science and Technology
Anil J Thomas

Rakhee R

SreejaEA

Veena Wilson

- Annamalai University

RinkuScaria

PUBLICATIONS BY FACULTY AND STUDENTS

- "Analysis of Extended State Observer and Active Disturbance Rejection Control in the Speed Control of DC Motor System, Parvathy R and Asha Elizabeth Daniel, accepted for publication in "Mechatronic Systems and Control" published by Actapress, an ESCI indexed Journal, Parvathy R, Asha Elizabeth Daniel
- "An Efficient Position Tracking Smoothing Algorithm for Sensor less Operation of Brushless DC Motor Drives", published in Modelling and Simulation in Engineering, published by Hindawi, an E SCI indexed Journal, Surya Susan Alex, Asha Elizabeth Daniel.
- "Single phase reconfigurable grid tied inverter using DQ controller", IEEE International Conference on Control, Power, Communication and Computing Technologies, March 2018, at VJEC, Kannur, Surya Susan Alex, Anupama Narayanan
- "A Novel Single Switch Transformer less Buck-Boost Converter with noninverting Output", IEEE International Conference on Current Trends towards Converging Technologies (ICCTCT 2018) at SVS College of Engineering, Coimbatore, Resmi Retnan, Sreeja E.A.
- "PI Control Strategy for a DC-DC Interleaved Boost Converter", National Conference of Emerging Technologies at MES College of Engineering and Technology, Kunnukara, Amala Joy, Soumya Simon.
- "Multiple Input Bidirectional DC-DC converter for DC Drive Applications", Asha K A, Rakhee R.
- "A Photovoltaic System with Adaptive MPPT with ZETA converter and Single Source Multilevel Inverter", International Conference on Control, Power, Communication and Computing Technologies at Vimal Jyothi Engineering College, Thalassery, Ruveena, Anil J Thomas.
- "Sepic - Cuk Converter For PV Application Using Maximum Power Point Tracking Method", IEEE International Conference on Control, Power, Communication & Computing Technologies, VJEC, Kannur, Devika, Rosemin Parackal.
- "A Reduced Switch Multilevel Inverter Topology Utilizing a Capacitive Divider", International Journal of Electronics Engineering (IJEE), Rabiya Rasheed, Dr. Saju K.K
- "Development of low cost systems for structural health monitoring", Second National Conference on Structural Engineering and Construction Management, SECON' 2018, F ISAT Angamaly, Firzeena Firoz, Unni Kartha G, Mahesh C, Muhamed Noufal C
- "Harmonic Analysis of Single Phase Inverter", International Multi-Conference on Computing, Communication, Electrical and Nanotechnology(12CN-2K18), Mangalam

FACULTY ACHIEVEMENTS

FACULTY PARTICIPATION

1. One day FDP on Automation in the world of AI, ML and Data Science organised by TCS Kochi was attended by Dr. Archana R, Surya Natarajan and Surumi Hassainar.
2. Three-day FDP on " Role of 10T in Smart Grid" organised by the Department ofEEE, FISAT was attended by all the faculty.
3. Six day summer school on Machine Learning at IIT Hyderabad attended by Muhamed Noufal C.

STUDENT ACHIEVEMENTS - PLACEMENT STATISTICS OF 2019 BATCH

Sl.No.	Name of the Student placed	Name of the Employer
1	Aniana Anilkumar	SUTHERLAND
2	Anto Mathew	SPERIDIAN
3	AparnaRH	SUTHERLAND
4	Arva S Kumar	SUTHERLAND
5	Aswathy S	TCS,INFOSYS
6	Aswin B S	Xperion,INFOSYS
7	Delese G Devassy	SUTHERLAND
8	Dhananjai	SUTHERLAND
9	Edwin Vadakumchery Augustykutty	TCS
10	Ekaa M Nair	TCS
11	Gouri Manoj	SUTHERLAND
12	Gayathri P Kumar	SUTHERLAND
13	Gokul Sathyanath	TCS
14	Hains Justin V	TCS
15	Jenita Jerard	CTS, QUEST, INFOSYS
16	Lisabeth Maria George	Xperion, IBM, INFOSYS
17	MadhuKrishna S Menon	Xperion, Kalki, INFOSYS
18	Medha A	TCS
19	Mohammed Bin Bhadusha E B	Amazon
20	Monu Simon	UST GLOBAL
21	Muhammed Nihal M M	TCS
22	P R Bastinson	UST GLOBAL

23	Sidharth S Menon	SUTHERLAND
24	Sreelakshmi Suresh	TCS

STUDENT ACHIEVEMENTS - EXTERNAL COMPETITIONS

Name of the Student	Position	Event
Pranav L	First Prize	Battle BotsV. 19 competition conducted as part of Vidyutl 9 on March 15,16,17 at Amrita Vishwa Vidyapeetham, Amritapuri Campus
Yedukrishna B	Participated in Mathematics	Club Day Celebration, Rajagiri School of Engineering and Technology, Kakkanad
Abdul Saleel Khadar	First Prize	Inter Engineering Foot Ball Tournament at ASIET, Kalady 13-16 Feb 2019
Ben Mathew	Second prize	District level Seminar Competition organised by KSEB Engineers Association with the support of IEEE power and energy society kerala chapter on 16/3/2019
Devaki Rajesh	Second prize	District level Seminar Competition organised by KSEB Engineers Association with the support of IEEE power and energy society Kerala chapter on 16/3/2019
Muhammed Nihal M M	Second Place with A Grade	Trilogy, Brahma 2K19, ASIET, Kalady.
Sukhoi Stephen	Second Place with A Grade	Trilogy, Brahma 2k19, ASIET, Kalady.

PUBLICATIONS BY FACULTY AND STUDENTS

1. "Analysis of Extended State Observer and Active Disturbance Rejection Control in the Speed Control ofDC Motor System", Parvathy R, Asha Elizabeth Daniel, Muhamed Noufal C accepted for publication in "Mechatronic Systems and Control" published by Actapress, an ESCI indexed Journal.

2. "Speed Control of DC Motor Driven by Improved Bridgeless Sepic Converter", Vineeth, Surya Susan Alex, at National Conference on 'Recent Advancements In Power Electronics And Power Systems' 2019 at FISAT, Angamaly
3. "Single Phase three level three leg converter using SiC MOSFETs for AC-AC applications", Sneha Ravikumar, Surya Natarajan at National Conference on Recent Advancements In Power Electronics And Power Systems' 2019 at FISAT, Angamaly
4. "Study on MTPA and Comparative Analysis With ZDAC" Linu Jose, Anil J Thomas at National Conference on 'Recent Advancements in Power Electronics And Power Systems' 2019 at FISAT, Angamaly.
5. "A Five Level Multilevel Topology Utilizing Multicarrier Modulation Technique", Rabiya Rasheed, Dr. Saju K.K, International Journal of Power Electronics and Drive System (IJPEDS)
6. "A Buck-Boost Converter with Low Electric Stress on Components" at National Conference on recent advancements in Power Electronics And Power Systems' 2019 at FISAT, Angamaly
7. "Switched-Capacitor-Based Dual-Switch High-Boost DC-DC Converter" Jyothi G K, Suparna Mukundan at National Conference on 'Recent Advancements in Power Electronics And Power Systems' 2019 at FISAT, Angamaly
8. "A Novel Fuzzy Controlled Solid State Fault Current Limiting Circuit Breaker" at National Conference on 'Recent Advancements In Power Electronics And Power Systems' 2019 at FISAT, Angamaly
9. "Three Phase four wire system from single wire earth return using UPQC" Anida Andrews, Rinku Scaria, National Conference on Recent Advancements In Power Electronics And Power Systems' 2019
10. "Three Phase single stage solar PV integrated UPQC" Anida Andrews, Rinku Scaria, International Conference



TRAINING ON FIRE FIGHTING INSTRUMENTS ON JAN 24 2019

T Vinayakurmar, Inspector Fire and Rescue Dept. Angamaly giving the training programme on "FIREFIGHTING INSTRUMENTS"



Alumni Reshma IPS

Ms Reshma IPS, our alumni speaking at the EEE Alumni Meet Held at FISAT

Department of Electronics and Communication Engineering



FACULTY ACHIEVEMENTS

1. The Department successfully organized a KTU funded Faculty Development Programmes on Robotics and IOT. Ms Neena K A and Mr Noble G Coordinated the FDP. Ms Dhanya S, Ms Jesiin P Jo, Dr Krishnakumar S, DrAni1 Kumar M N, Ms Bini V K, Ms Gayathri 1K, Ms Subha Thomas, Mr Manu Mohan, Ms Elza George, and Ms Manju C P were the organizing committee members for the FDP.
2. A Faculty Development Programme on Industrial Robotics was organized by the Department under the E-Yanthra initiative in association with IIT, Mumbai. Mr Bejoy Varghese, Mr Anoop E G, Mr Benoy Abraham, Ms Nisha R and Ms Minu Kuriakose successfully completed the FDP.
3. Ms Mini P R, HOD of ECE Department was awarded PhD in Electronics Engineering for her thesis titled "Development of a computationally efficient antenna beamforming algorithm and its implementation using FPGA" from CUSAT.
4. Ms Dhanya S, Ms Pearlsy P V, Ms Ambi1iA R, Ms Sheelu Susan and Ms Vinitha V attended a 6 day STTP on "Python Programming and Machine Learning Basics" at Sahrdaya College of Engineering & Technology, Kodakara.

5. Ms Deepa N R, Ms Nimmy M Philip, Ms Aiswarya Raj, Ms Jesiin P Jo attended 5 day FDP on Signal Processing at RSET.
6. Dr Mini P R and Ms Jilu George attended a 5 day FDP on Outcome Based Education- A gateway for NBA accreditation at CUS AT.
7. Ms Aiswarya Raj attended the 47th ISTE National Annual Convention at Saintgits College of Engineering
8. Dr. Anil Kumar M N has been approved as research guide ofKTU.
9. An exhibition of the projects of final year ECE "AGNITIO 2018" was successfully organized
10. A 3 day workshop on Robotics and IOT was conducted for the students by Ms Neena K A, Mr Noble G, Ms Bini V K, Ms Jesiin P J, Dr Krishnakumar S, Ms Dhanya S, Ms Gayathri 1 K, Ms Subha Thomas Ms Elza George, Ms Manju C P and Mr Manu Mohan
11. Ms Deepa N R and Ms Nimmy Philip successfully completed AICTE approved FDP on Foundation program in ICT for education and Pedagogy for Online and Blended Teaching —Learning process conducted by 11T Bombay.
12. Ms Deepa N R successfully completed FDP on Mentoring Educators in Educational Technology Course conducted by 11T Bombay.
13. Ms Deepa N R, Ms Nimmy M Philip, Ms Jesiin P Jo. Ms Christy Jose, Ms Bini V K, Ms Gayathri 1 K, Ms Nisha R, Ms Neena K A, Ms Vinitha V, Ms Elm George, Ms Manju C P, Mr Manu Mohan, Ms Sreelekshmy S have successfully completed various NPTEL courses
14. Mr Basil K Jeemon reviewed a Journal of IEEE Wireless Communication Letters (SCI indexed)
15. Mr Anoop E G attended one day seminar on the topic "Role on Intellectual Property Rights (IPR) in Technology Transfer" conducted by Adi Shankara Institute of Engineering and Technology Kalady.
16. A 3 day C programming workshop was conducted for students.
17. SMART FISAT Hackathon was organized for the students by ECHO
18. Ms Neena K A attended one week FDP on Emerging and relevant areas in RF & Wireless Communication, Muthoot Institute of Science and Technology

STUDENT ACHIEVEMENTS

1. Ms Athira S of 2nd year secured full outstanding grades in the 3rd and 4th semester KTU examinations
2. Mr. Alex Jolly of4th year was the first runner up in the India Skills Kerala 2018
3. Mr Alex Jolly of 4th year also won Robothon 3.0 conducted at College of Engineering, Chengannur
4. Mr. Alex Jolly of4th year secured 2nd prize for the Path Finder Line Follower Robot inAgnitio 2k17 — Second Prize conducted by ECHO FISAT
5. Seventy four students of2014-18 batch secured placements.
6. Thirty two students ofthe current final year secured placements so far.
7. Three students ofMTech VLSI and Embedded Systems secured internships in Bosch.

8. Three students of 7th semester ECE secured internships in Digital Core Technologies
9. Mr Akhil Roy of 3rd year secured the bronze medal in Javelin throw in the first athletic meet of KTU.
10. Thirty five students successfully completed NPTEL courses
11. Sawmiya P George won the best paper award in the National Conference on Emerging Technologies (NACET 2k18) conducted by MES College of Engineering And Technology, Kunnukara.
12. Mr Kevin, Mr Joseph Sebastian, Mr Pranav and Mr UnniKrishnan secured a grant for their project "Multifabricator" undertaken in Fablab.
13. Ms Josna, Ms Nandhita Vanna, Ms Jemy and Mr Nevin George secured a grant of Rs 75,000/ from Kerala Start Up Mission, for their project "Cooling Blanket" undertaken in Fablab.
14. Eleven students of 7th semester qualified for the TCS common corporate test.

PUBLICATIONS

1. Dr, Anil Kumar M N published a paper in International journal. Computer aided detection of clustered microcalcification - a survey (CMIR)
2. Mr Basil K Jeemon and Ms Prathyusha published a paper in the Proceedings of IEEE International Conference on new trends in Engineering and Technology — 2018.
3. Mr. Anoop E G, Mr, Benoy Abraham, Ms. Ann Treasa Jenson, Ms. Gisma George, Ms. Joshmy Jose, Ms. Meritta Tony, Ms. Sawmiya P George, Ms. Sethulakshmi K S and Ms. Sinta Antony presented research papers in the National Conference on Emerging Technologies (NACET 2k18) conducted by MES College of Engineering And Technology, Kunnukara.

FACULTY ACHIEVEMENTS 2019

1. Dr. Krishna Kumar S chaired a technical session on Devices, Circuits, Materials and Processing in IEEE TENCON 2019 by IEEE Kerala section from 17-20 October 2019.
2. Dr. Krishna Kumar S represented FISAT in CGPC meeting for Ernakulam I cluster on 4th October 2019 of APJ Abdul Kalam Technical University.
3. Dr. Krishna Kumar S was the chairman M. Tech. valuation for ECE stream for Ernakulam I cluster.
4. Mr. Anoop E G was the workshop coordinator of "eSim" a first course in the IOT series for teachers on 21st September 2019 sponsored by MHRD, Government of India conducted by IIT Bombay.
5. Ms. Subha Thomas and Ms. Dhanya S selected as top 1 % in the 4 week NPTEL online certificate course on Teaching and Learning (TALE) during January — April 2019.
6. Ms. Manju C P and Ms. Aiswarya Raj selected as top 5% in the 4 week NPTEL online certificate course on Teaching and Learning (TALE) during January — April 2019.
7. Ms. Jilu George and Ms. Sreelekshmy S conducted workshop for semester I ECE students on "LTspice" on 15th November 2019.

8. Mr.Bejoy Varghese was awarded as the best teacher of the year 2019.
9. Department organized a talk on "radar Engineering" on 22-11-2019. Mr. Sibil Kumar T, Scientist , DRDO, Bangalore delivered the talk.
10. Department organized Design Project Exhibition "SHAASTRA 19" on 25-11-2019.
11. Mr. Basil K Jeemon was invited as the reviewer of Journal of physical communication Elsevier (April 2019) and IEEE wireless communication letters (October 2018).
12. Dr. Mini P R was selected as member of Zonal Workshop of APJ Abdul Kalam Technological University.
13. Dr. Anil Kumar M N was external supervisor for the Ph.D viva voce conducted by Visvesvaraya Technological university, Karnataka.
14. Dr. Mini P R conducted a workshop on "Introduction to Simulink" on 26th July 2019.
15. Mr. Basil K Jeemon , Ms Aiswarya Raj, Ms Jilu George ,Ms Christy Jose , Ms Deepa N R conducted 3 Day FDP on "Tools to aid online and blended learning" on 8,9, 16th July 2019.
16. Ms. Dhanya S, Ms, Neena K A, Ms, Sheelu Susan Mathews, Ms. Vinitha V conducted workshop on Python on 9th February 2019.
17. Department organized a Technical talk on IOT. Mr Ranganathan, IOT architect, TCS Cochin delivered the talk.
18. Mr. Noble G, Mr. Manu Mohan C and Ms. Bini V K conducted add on course on embedded system during 8th April 2019 to 19th April 2019.

RESEARCH ACTIVITIES

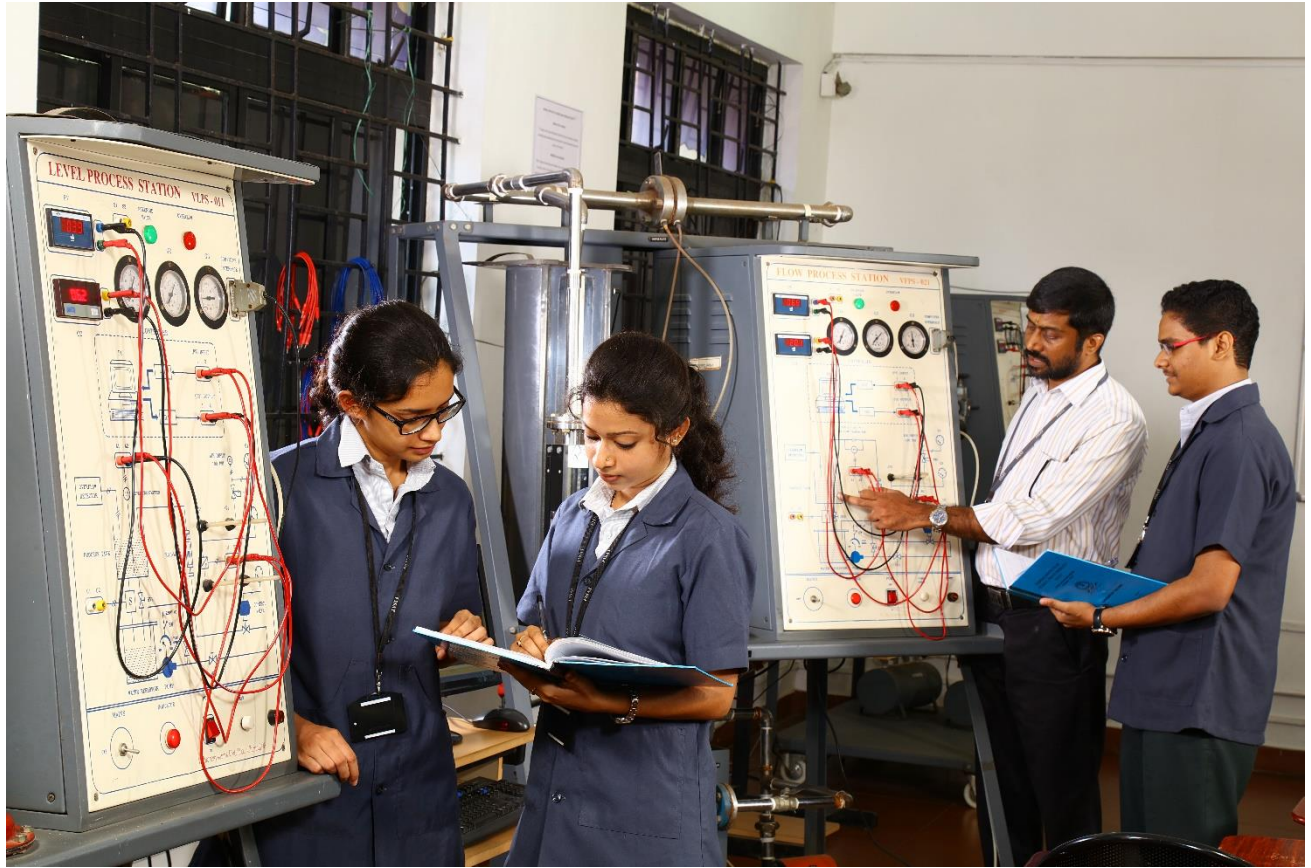
1. Dr Anil Kumar M N applied for a patent for " A specific fast positive integer multiplier for multiplying positive integers".
2. Ms Aiswarya Raj published a paper on "Counter Forensic": A new PRNU based method for image source anonymization in IEEE 2019 International Conference on Electrical, Computer and Communication Technologies, Coimbatore India.
3. Ms Dhanya S. and Ms Neena K. A. registered for Ph.D under APJ Abdul Kalam Technological University.
4. Doctoral Committee was formed with Dr. Mini P R, Dr. Krishna Kumar S and Dr. Anil Kumar M N as internal members along with external members from other institutions and meeting was held in July 2019 to suggest course work for Ph.D scholars.

STUDENT ACHIEVEMENTS

1. Minnu Simon (2015-19 batch) secured second rank in B.Tech degree examination 2019 (state Level).
2. 82 students of 2015-19 batch secured placements.
3. 25 students of current final year secured placement so far.

4. Irene M V (S5 ECE) represented FISAT volley ball team and won 1st prize in Volley ball Dzone level championship conducted by APJ Abdul Kalam Technological University.
5. Nevil Chandy Alex, Sidhanath T S and Alex Jolly won the first prize in AI Fest 2.0, IEDC
6. Rythin Nambiar won first prize in Science and Technology Exhibition held at SH College, Thevara.

Department of Electronics and Instrumentation Engineering



ACTIVITIES:

26/7/2018, Alumni Interaction with Vishnu S Menon Sub Lieutenant, Indian Navy

FACULTY ACHIEVEMENTS

NAME	ACHIEVEMENT	REMARK
Lakshmi Nandakumar	Introduction to Machine Learning Aug Oct 2018 (8weeks)	All India Topper (2%)
Shruthi Bhaskaran	Effective Engineering in Teaching Practices	
Raji P	Introduction to IOT Jul-Oct2018 (12weeks)	Elite
Anila Mathew	Introduction to IOT Jul-Oct2018 (12weeks)	Elite

STAFF INITIATIVES FOR MENTORING STUDENTS IN NPTEL COURSES

Lakshmi Nandakumar	Introduction to Machine Learning Aug-Oct2018 (8weeks)	17(Allpass)
Anila Mathew	Introduction to IOT Jul-Oct2018(12weeks)	10

FUND RECEIVED

Nature of the Project	Project	Name of the funding agency	Total grant Sanctioned	Amount Received
Industry sponsored Projects	EGG Candling Device Vertical Pro-Farming	TEXAS Instruments in association with myGOV initiative	Rs.30.000/-	Rs.30,000/-
Students Research Projects	EGG Candling Device	KSCSTE	Rs.13,000/-	Rs.13,000/-

STUDENTS ACHIEVEMENTS

S3 EIE	Jins George	KTU Football	Nov 2018	Runners up KTU Zone D
S3 EIE	Akash Anil	FISAT Sports	Oct 2018	Bronze for 4x 400 relay and 200m
S3 EIE	Mr.Derin T Jose	SWAN Drawing Competition	26 Nov 2018	First Prize

FACULTY ACHIEVEMENTS

SI No	Faculty name	Course : NPTEL
1.	Dr. Abi Mathew	Teaching & Learning in Engineering
2.	Mrs. Beenu Riju	Enhancing Soft Skills & Personality
3.	Mrs. Sreevidya P	Sequence Models
4.	Mrs. Sreevidya P	Neural Networks and Deep Learning
5.	Mrs. Sreevidya P	Convolution Neural Networks

STAFF APPRECIATED FOR MENTORING STUDENTS IN NPTEL COURSES

SI No	Faculty name	Course	No of students passed the course
1.	Mrs. Sreevidya P	Joy of Computing with Python	15
2.	Mrs. Beenu Riju	Enhancing Soft Skills and Personality	18
3.	Mrs. Raji P	Problem solving through programming in 'C'	11
4.	Ms. Lakshmi Nandakumar	Introduction to Machine Learning	17

CONFERENCE AND PUBLICATIONS

Sl. No.	Title of the Paper	Conference/ Journal	Month& year
1.	VC Dimension Based Fuzzy Sigmoid Neural Network (VC-FSNN) by - S.Sundararajan	International Conference on Intelligent Systems	2018
2.	Compressive Sensing aided collision avoidance system by Mrs. Sreevidya P	IEEE, International Conference Artificial Intelligent and Smart Grid	Jan 2019
3.	Data Representation in Industries using Virtual Reality by Mrs. Sreevidya P and Mrs. Beenu Riju	IEEE, International Conference on Circuits and Systems in Digital Enterprise Technology	Dec 2018

Department of Mechanical Engineering



MAJOR EVENTS

- **The American Society of Mechanical Engineers (ASME):** organized one-day Technical Event EFx at the Federal Institute of Science and Technology (FISAT). The event was organized to bring the excitement, community experience, innovation and vibrant experience of an ASME Engineering Festival. The programme consisted of various interactive sessions and workshops with industry experts such as Prashant Dhawan, Founder of Biomimicry Lab, India, Sandith Thandassery, CEO Navalt Solar and Electric Boats, Sunder Raman Mohan, General Manager Siemens India and Viswa Mohan Senior Manager Bosch India. ASME EFx FISAT was officially inaugurated by Mr. P Vijayan IPS IG, Mr. Sanith Thandassery (CEO, Navalt Solar and Electric Boats), Dr. KSM Panicker (Director, FISAT), Mr. Madhukar Sharma (President, ASME India), Dr. Jose Cherian (HOD, ME), Ms. Erin Dolan (ASME International), Mr. Siddharth Jadeja (SRA ASME Asia Pacific), Mr. Viswa Mohan (Senior Manager, BOSCH India), Mr. Prashant Dhawan (CEO, Biomimicry India), Mr. Sunder Raman Mohan (General Manager, Siemens India). The lead coordinators for ASME EFx FISAT, Mr. Afan T Mohammed (Chairman, ASME FISAT) and Mr. Abhijith J Kumar (Zonal Representative, ASME India) were also seated on the dais.
- Invited lecture: Marking the occasion of National Science Day on 28th February 2018, where Padma Bhushan award recipient Dr. A.S. Pillai, Founder CEO & MD of Brahmos Aerospace was the resource person. This was the 3rd lecture in the Erudite Lecture Series organized every year.
- ASME has organized a one day seminar on Gas Turbines in association with the ASME GT India Panel at the Federal Institute of Science and Technology (FISAT) on 7 April 2018.

- How to Engineer yourself: The Students Association of Mechanical Engineering (SAME) arranged a session for the students on 5th November 2018. The seminar going by the name "How to Engineer yourself" was conducted by Dr. Prasad Krishna NIT Surathkal. The welcome speech by the Principal Dr. George Issac at 11:00 am was followed by the Keynote address by the chairman Mr. Paul Mundadan. He began his seminar about holistic approach for stress reduction by a small talk about equality and about everyone being the same through his seminar, Dr Prasad covered a lot of spheres. He talked about the importance of engineers and the role they play in the present scenario, quashing all the negative ideologies towards engineering. After the session a memento was handed over to the chief guest by the Dr. K S M Panikkar, director of academics after which the chief guest distributed ASME EFX certificates to the lead volunteers.

Faculty

- Mr. Suman Lal, Assistant Professor has been awarded Ph.D
- Mr. Midhun Paul, Assistant Professor has been awarded Ph.D
- Mr. Reejesh CR, Assistant Professor has been awarded Ph.D
- Namitha Krishnakumar, S2 ME has secured outstanding in semester II examinations.
- ASME (American Society of Mechanical Engineers) : ASME (American society of Mechanical Engineers) is a professional association formed by a few industrialists in North America in the year 1880 which was mainly focused on Mechanical Engineering. Student chapters of ASME are now entrusted to conduct these types of Design competitions, Innovation Showcase etc.

1	Chairman	SRIRAM SANKAR
2	Vice Chairman	P HARIKRISHNAN
3	Secretary	VYSAKH VINOD
4	Treasurer	VISAKH UNNIKRISHNAN
5	Convenor	AFAN T MOHAMMED
6	Joint Secretary	JASEEM N HASSAN
		AGGIYA BEN
7	Technical Head	SHYAM G PULICKAN
		MAHESH M H
8	Publicity Head	RITHWIK JAYAN
9	Webmaster	JESWIN CHERIAN
		JIDHIN PAUL
10	Editorial Head	M M ASIF
		HABEEL KOSHY
11	Creative Heads	NIRMAL THOMAS
		AASHIN SRAVAN

Student Association of Mechanical Engineering is the student wing of Department of Mechanical Engineering. The membership is voluntary for all the students of Mechanical Department. Also

students who are enrolled for short term courses of the Department and its allied research centers may get the membership upon paying the fee. This year's Office bearers are

1	Student Chairman	SHYAM PULICKAN
2	Vice Chairman	THOMAS MANI
3	Secretary	AASHIN SRAVAN
4	Joint Secretary	AJAY GOPAN
5	Treasurer	MIDHUN SURESH
6	Editor	AFAN T MOHAMMED
		REUBEN JACOB

SAE India (Society of Automotive Engineers) SAE India is a professional engineering society whose membership represents practically every engineering and scientific discipline. Its members combine their specialized abilities to further advance the research, development, design, manufacture and utilization of vehicles which operate on land, water, air and space.

1	Chairperson	JYOTISH KIRAN
2	Vice-Chairperson	VYSAKH VINOD
3	Secretary	MATHAI YELDOSE
4	Treasurer	RISHI S KUMAR
5	Program Chair	FREDDIN K THOMAS
6	Community Manager	TOM JOSEPH & RITHWIK JAYAN
7	Membership Chair	ARUN BIJU

- **GO KART CLUB:** The Go Kart Club is operating under Department of Mechanical Engineering. It is a club with a vision of revolutionizing the automobile industry. The main objective of this club is to prepare Mechanical Engineering Students to participate in BAJA (Baja SAE is an intercollegiate Design Competition run by the Society of Automotive Engineers). The club was established in 2018 after a group of Mechanical Engineering Aspirants created a fully functioning Go Kart named KARMA 1.0. The next immediate motive of the students is to bring out advanced vehicles, fitted with superior technology.

Hydraulic Machines Lab inauguration: Renovation work of HM lab was completed in March 2018. Old turbines of low capacity were replaced by new ones of high capacity and test rig was done open type. New Turbines –

1. Pelton wheel (5HP),
2. Francis turbine (5HP),
3. Kaplan turbine (5HP).

The opening ceremony was carried out by Mr. Paul Mundadan, Chairman, on 18th April 2018. The upgraded lab will be highly beneficial to Mechanical and Civil Engineering students for UG programmes.

MAJOR ACTIVITIES 2019

NATIONAL SCIENCE DAY: The Department of Mechanical Engineering, Federal Institute of Science and Technology (FISAT) organized various programmes marking the occasion of National Science Day on 28th February 2019. The proposed programmes were designed to generate awareness among the students, academia and general public about the importance of National Science Day and the focal theme of NSD-2019. The inaugural function began with an invocation and Dr. George Issac, Principal, FISAT welcomed the gathering. He congratulated the Programme coordinator Dr. Rejeesh C. R. and Department of Mechanical Engineering for spreading the message of science day. Dr. Paul Mundadan, Chairman of the Governing Body of FISAT presided over the function and delivered the presidential address. He emphasized on the challenging role of science and engineering students to contribute to the path of India's journey towards being a super power. Dr. K.S.M. Panicker, Director-Academics, Dr. C. Sheela, Vice Principal, Dr. Sunny Kuriakose A., Dean. Student Affairs, Dr. Jose Cherian, HOD, Mechanical Engineering, were also present during the inaugural function and extended their whole-hearted support. Dr. Sarith P Sathian, Associate Professor, IIT Madras was the chief guest and he inaugurated the function. His introductory remarks about the relevance of national science day and the Nobel Prize winner CV Raman were informative and well applauded. Later on, he delivered the science day lecture based on the theme "Communicating Science for All".

SCIENCE DAY LECTURE: Dr. Sarith P. Sathian in his lecture addressed the recent advances in technology and their convergence specific to Indian strategic sectors ranging from environment to space exploration and defence technology. Dr. Sathian emphasized on the latest trends in Science & Technology and also the challenges & opportunities faced by engineering education in general in the state of Kerala. He started his lecture mentioning the significance of Raman Effect and how this discovery is used in spectroscopy to identify different materials. He revealed the various areas of interest that could lead to India's prosperity like Artificial intelligence, neural networks, data mining, cloud computing and robotics. He also covered the recent developments in areas like Smart materials, Face recognition, Nanotechnology, Bio sensors, solar energy and Artificial Intelligence

ASME EFX FISAT: The American Society of Mechanical Engineers (ASME) organized its one day technical event EFX at FISAT. The event was organized to bring the excitement, community, innovation and vibrant experience of an ASME Engineering Festival to engineering students in colleges and universities.



NATIONAL SCIENCE DAY CELEBRATION

Thursday, 28 February

National Science Day was inaugurated at FISAT Auditorium Dr Paul Mundadan, Chairman, Dr George Issac Principal, Dr C Sheela Vice Principal, Dr KSM Panicker Academic Director were also seen

Invited Talk on 'How to Engineer yourself.' : The Students Association of Mechanical Engineering (SAME) arranged a session for the students on 5th November 2018. The talk "How to Engineer yourself" was by Dr. Prasad Krishna, Professor, Mechanical Engineering and Dean of National Institute of Technology, Surathkal. He is the recipient of Kirloskar Gold medal, Sir M Visveswaraya Memorial Prize and many more prestigious accolades. He has more than 34 years of experience and is also a trainer of spiritual practice under system of "Heart fullness meditation".

Talk by Rev. Fr. Davis Chiramel : The Student Association of Mechanical Engineering (SAME) arranged a session for the students on 8th March 2019. The session was handled by Rev. Fr. Davis Chiramel, popularly known as Kidney Priest, is an Indian Syro-Malabar Catholic priest and the founder of Accident Care and Transport Service (ACTS) and the Kidney Federation of India. He has been singularly responsible for half a million people in India pledging their kidneys for donation post-mortem and, moving a step ahead of his priestly duties to the laity, he has walked the talk by setting an example for universal brotherhood and compassion-by donating his kidney to a man of the Hindu faith.

PhD Degree Awarded: Dr. Midhun Paul, Assistant Professor, Department of Mechanical Engineering has been awarded Ph.D. from the National Institute of Technology (NIT) Calicut, for his thesis entitled "MULTI-OBJECTIVE SCHEDULING OF AN ASSEMBLY JOB SHOP: MODELLING AND ANALYSIS"

Students Achievements

THE ASME CHARLES T. MAIN STUDENT SECTION LEADERSHIP AWARD

ASME Charles T. Main Student Section Leadership Award, established in 1919, recognizes a current ASME undergraduate student member whose leadership and service qualities have contributed, for a period of more than one year, to the programs and operations of a Student Section of the Society. Mr. Abhijith J Kumar, S8MEA, FISAT was selected to receive the 2019 ASME Charles T. Main Student Section Leadership Silver Medal "for two years of outstanding service as president of the ASME Student Section, particularly efforts to provide members with opportunities for community service, growth in the profession, and the development of technical and leadership skills." The award consists of a \$2,000 honorarium, a silver medal, a certificate and a \$750 travel supplement to USA.

Best Outgoing Student: Midhun Suresh, S8MEB, 2015

Admissions Outstanding Performer :Abhijith J Kumar , S8MEA,
2015Admissions

Ms. Namitha Krishnakumar: Ms. Namitha Krishnakumar, S3MEA has made the entire mechanical dept of FISAT proud by marking a sensational achievement in the history of the Department. She scored 'O' grade (Outstanding) in all subjects in KTU-B-Tech, S2, end semester exams with SGPA 10/10. She achieved this marvellous result with great elegance and poise and is a true inspiration for fellow students.

Mr.Midhun Suresh C : Mr. Midhun Suresh C of 2015-19 batch has made the entire College proud by marking a sensational achievement. He has secured 10th rank in the passed-out students of Mechanical Engineering from APJ Abdul Kalam Technological University, 2015 admissions. We wish him more achievements andhonours in the years to come.



INAUGURATION OF FIRE FIGHTING INSTRUMENTS TRAINING

JAN 24 2019

A Training Programme on Fire Fighting Instruments training was conducted by the Department of Fire and Rescue Govt. of Kerala at FISAT Auditorium Dr George Issac Principal Inaugurated the Programme

Department of Business Administration (FISAT Business School)



FISAT BUSINESS SCHOOL (FBS)

Introduction

FISAT Business School has been recognised as the most preferred business school in the State of Kerala. We are the only MBA institution under KTU with hundred percentage admission for the past three intakes. The business school has covetable achievements from the organisational, leadership and student level during the said review period. The student placements at FBS during the immediate previous year vouch for the increasing visibility of the business school among the corporate community. The following sub titles provide a brief summary of the activities and achievements of the business school.

Admission

The quality of student intake depends on the number of student applications received for a programme. There was an increase of 122% in student applications received for the academic year 2018-19, just on one mandatory advertisement, which is highly appreciable in a situation where many colleges under KTU and in the State of Kerala found it difficult to have at least 50% of their allotted seats. This clearly explains FBS progression during the past few years. We had increased the fees from Rs. 3,00, 000 to 4, 25,000 lakhs from 2018 admission onwards to provide more value addition.

Academic Results

The summary data and analytics of the university results released during the review period is shown below.

Sl. No.	Examination	Total no of students	Total attended	Total	Pass percentage
1	2015 SEM 4	118	118	97	82.20
2	2016 Trim 5	116	116	104	89.66
3	2017 Trim 2	118	118	54	45.76
4	2016 Trim 6	116	116	115	99.13
5	2017 Trim 4	118	118	100	84.74
6	2017 Trim 5	118	118	110	93.22
7	2017 Trim 4	118	118	106	89.83
8	2018 Trim 1	120	119	84.74	68.91
9	2018 Trim 2	119	119	93.22	73.95
10	2018 Trim3	119	119	89.83	73.11

Placements for MBA Students in FBS

The major commendable of FBS during 2018 is the quality of student placements.

2016-18Batch

FB S could attract many new companies that offered placement opportunities to our students. These organisations include Robert Bosch, TCS, ITC, OYO Rooms, S&P GLOBAL, IBS Software Services, Zinemind Technologies, Software Associates, Inter-Continental Hotels Group (IHG), Apollo hospital, Radisson Blu, Jaycee Ads, Taj Group, Tata Edge, Glenmark Pharmaceutical, TripleDe Technologies, Axis Bank, L&T Finance, ESAF Bank, Kempegowda International Airport, Bangalore etc.,

Total No of Companies	65
Total No of offers received	70
Highest Salary	9 Lakhs

2017-19 Batch

The placement activities of the present senior batch commenced during September 2018.

Total No of Companies	73
Total No of offers received	83
Highest Salary	6.65 Lakhs

We have also exercised an MOU with Affable Fresher's, a prominent placement support organisation to provide elite national level placement opportunities for our students and, further to elevate the quality of placements.

2018-20 Batch

The placement activities of the present batch commenced during August 2019.

Total No of Companies (Till date)	11
Total No of offers received	12
Highest Salary	7.5 Lakhs

Activities and Extended Programmes

Some of the major activities carried out at FB S include,

SAP training for the senior batch students on Finance/ HR and Marketing domain.

Training on professional etiquettes.

Sessions on aptitude and reasoning.

Workshop on time management and stress management.

Session on Six Sigma Methodology in Indian Software companies by Mr. Brijesh Krishna, Director- Organisational Excellence, Sutherland Global Services.

Soft skills training for enhancing their communication skills.

Session on Internet of Things (IOT) application in different industries.

Union budget live streaming session and analysis.

Microsoft Excel 2016 training.

Industrial Visit to Mangalore.

FBS and Ms. Nitta Gelatine has jointly organised an Indo-Japanese football tournament to encourage student-corporate interaction and to boost FB S brand visibility at corporate level.

CIFRS certification programme was offered to the entire T 1 students.

Microsoft Excel 2016 Certification was given to the entire T 1 students.

Talk on Indian Capital Market - Legal and Regulatory issues from governance perspective.

Seminar on regulatory issues in the Indian Financial System

International industry visit to Malaysia during March 2018 and November 2019.

Students workshop on Industry 4.0 and corporate governance at Malaysia University of Science and Technology

Industry visit at Royal Salangor, Malaysia

- BCE Certification and PGP 11 students.
SAP certification training for senior batch students.
Established KPMG FISAT Centre of Excellence for Business Analytics
Introduced functional area test's on a weekly basis (FA Test)

MOUs

- MOU with EME for offering SAP training for the MBA students.
- MOU with Affable Fresher's for national level placement opportunities.
- MOU with Malaysia University of Science & Technology
MOU with KPMG to establish KPMG FISAT Centre of excellence for business analytics

Achievements Students

1. Ms. Meera Premachandran, Ms. Shilpa Johnson, Ms. Soumya Saleen Varghese & Soun Meriam Roy secured 2nd Prize in Ad Age competition in National Commerce Festival conducted by KMM College.
2. Mr. Febin George Jacob of T3 MBA has secured ITC Paid Internship & Pre-placement offer of 4.5 Lakhs.
3. Mr. Anit Itoop Vattoly of T3 MBA has won the All Kerala Malayala Manorama Scholarship exam.
4. Ms. Anjaly Joy, Ms. Anu Josem Ms. Geethu P Nair & Ms. Gilymol George have participated in the EMERGENCE 2K 18 organised by Illahia School of Management Studies and won the Best Management Team award.
5. Mr. Raghav Swaminathan has received best All Kerala Best Management Student Award 2018 from KMA.
6. Mr. Joe Paul has been selected in the KTU football team
7. Mr. Harikrishna Menon, Antony A T, Ebin Joy, Annmary Robin won the second position in the marketing game conducted by Holy Grace Academy,

Faculty

8. Mr. Prasanth V, has cleared Google Digital Sales Certification.
9. Dr. George V Antony, Dean, FBS has been recognized as the Ambassador — Asia Pacific Region for IAAP (UK)
10. Dr. George V Antony, Dean, FBS has been awarded as the DEAN of the Year 2018 award by Integrated Chamber of Commerce and Industry.

11. Dr. George V Antony, Dean, FBS has been nominated as the Chairman, State of Kerala of the International Chamber of Media & Entertainment Industry
12. Dr. George V Antony, Dean, FBS has been elected as the Management Committee member of Kerala Management Association.
13. Dr. George V Antony, Dean, FB S has been nominated as the Chairperson for the Student forum of KMA.
14. Dr. George V Antony received the excellence award(2019)for contributions in the management education sector and focused initiatives at the FUTUTE KERALA Education Conclave from the Hon. Governor of Kerala.
15. Dr. Sindhu George was confirmed PhD award

Department of Computer Applications



MAJOR ACTIVITIES

Events Organized

Workshops Organized

Workshop on "A Practical approach: Agile Methodology" organized by Dept. of Computer Applications and Opentrends, Koratty on 3rd August 2018 (FDP).

- Organized two-day workshop on "Android" on 4th, July 2018.
 - Organized one day workshop on "Latex" on July 2018.
- Workshop on "Java spring Frame work" on 1st July 2018. Seminars

- Organized seminar on "raspberry pi and Arduino" for KTU MCA first semester students on 20 November 2018. Mr. Pankaj Kumar G, Asst. Professor, Department of Computer Science and Engineering.

Project Exhibition

- MCA Lateral students exhibited their mini projects on 28th November 2018 at MCA seminar hall. Students from Department of Computer Applications visited the exhibition stall and viewed the projects.

Achievements

1. Dept of Computer applications is selected as Advanced Skill Development center by ASAP and Higher Education Department for conducting Machine learning/ Artificial Intelligence course. Dr. Sreeraj M is selected as Nodal Officer/ Trainer.
2. Our students won good results in the university examinations.

PLACEMENT

For 2018-19 academic year - MCA Regular 2014 and MCA Lateral 2015 batches - achieved good placement records. More than 35 placement offers achieved by our students in reputed IT companies.

Our students completed internship programmes at UST Global and Opentrends. End of the internship 18 students got placement in the same company.

This year department conducted an intensive placement training (14 days) program for final year students. We scheduled training programs of two consultancies- Mpower and Pragmatrix.

STAFF ACHIEVEMENTS

- Mrs. Deepa Mary Mathews and Mrs. Shahna K U participated in the 'From Labs to industry' Programme (FLI) 2018 organized by M G University, Business Innovation and Incubation Centre (BIIC) and is selected for student start-up grant.
- Dr. Sreeraj M is selected as research supervisor at APJ Abdul Kalam Technological University
- Dr. Sreeraj M won second prize in ACM compute 2018-poster presentation held at Chitkara University, Chandigarh, Punjab.

- Dr. Sreeraj M is selected as Co-Principal Investigator for funded research project by CEDs, TVMMay2018.

STUDENTSACHIEVEMENT

- The students of MCA Department participated in the National level IT Fest "Samyuktha" organized by SaintGits on 2nd and 3rd November 2018 and won the following prize
- Mobile Application Development-Arjun S S3(LE),Adarsh B.S S3(LE) Firstprize
- The students of MCA Department participated in the National level IT Fest INZIO 2018 organized by SNGIST, Paravur on 16thand 17th October 2018 and won the following prize
- Web Designing - Riya S 1 LE, Rohith S 1 LE - First prize

PAPER PRESENTATION

National conference	1
International Journal	4

ADD-ON COURSE ON ADVANCED JAVA PROGRAMMING

The Department of MCA has conducted an Add-on course on "Advanced Java Programming" for MCA Lateral 2017 batch students from 09/07/2018 to 10/07/2018. The resource person was Mr Pankaj Kumar G, Asst. Professor cum System Analyst & Software Engineer, CSE Department, FISAT. Training has been given on the topics such as Java Version 8, Atom editor, Eclipse IDE, Apache Tomcat Web server, and Postgres DB.

RANK

Ms. Disney Devassy won second rank for all Kerala scholarship examination conducted by ASAP for upcoming course on Machine Learning/ Artificial Intelligence in engineering colleges.

SOCIAL OUTREACH PROGRAMMES

The students of MCA Department attended the flood relief program at St. Joseph School, Angamaly on 31-08-2018 for rehabilitation activities of flood-affected areas.

The students:

- (1) Helped the school children to complete their notes.
- (2) Surveyed on damages caused using an app
- (3) Disposed wastes.

Students of MCA LE 2017 batch Volunteered for a social activity Flood Relief and Rehabilitation on 31st August 2018.. Students were directed to reach at St. Joseph school, Angamaly. From there all were taken to respective camp sites i.e Kuthiathode, Kunnakara, Manjapara, Angamaly etc. All the

students were assigned with full day's work different duties such as cleaning, planting trees, collection etc.

MCA REGULAR & LATERAL PROGRAMMES INDUCTION MEET-2018

An Induction ceremony for the 13th batch of MCA Regular programme and 5th batch of MCA Lateral programme were conducted on 1 st August 2018. Both parents and the students were invited to the function. All the dignitaries were welcomed by Mr. Santhosh Kottam, HOD, MCA. The Induction Ceremony was thereby inaugurated by Mr. Paul Mundadan, Chairman FISAT who also delivered the Inaugural Address. The gathering was felicitated by Dr. George Issac, Principal, FISAT, Dr. C Sheela Vice Principal, FISAT and PTA President -K P Baby. The official meeting concluded with Mr. Unni Kartha G, HOD of Civil Department, delivering Vote of Thanks. The afternoon session included a short seminar on the MCA.

ORIENTATION PROGRAMME - KTU BATCHES

Organized orientation programme for regular and lateral batch students on 6 th, 7 th, 8 th, 9 th August 2018. Experts from Pragmatix, Mr. Chandramohan Nair, Mr. Sino Varghese and Prof. Molly Joseph were resource persons of the programme.

WORKSHOPS ORGANIZED

FACULTY DEVELOPMENT PROGRAMME

Organized one day FDP on "Data Analytics" by Department of Computer applications in association with TCS, Cochin on 11 January 2019.

SEMINARS

Expert Talk on 'Data Analytics for Wearable Sensor-based Health Monitoring' held on 2nd February 2019 by Dr. Gaurav Sharma, Prof. Department of Electrical & Computer Engineering, University of Rochester.

PROJECT EXHIBITION

2016 Regular and 2017 LE students exhibited their mini projects on 10th May 2019 at MCA seminar hall. Students from department of computer applications visited the exhibition stall and viewed the projects.

ACHIEVEMENTS

- Our students won good results in the university examinations.

PLACEMENT

For 2018-19 academic year - MCA Regular 2016 and MCA Lateral 2017 batches - achieved good placement records. More than 90 placement offers achieved by our students in reputed IT companies.

STAFFACHIEVEMENTS

- Ms.Shidha M V Qualified UGC NET.
- Ms SenuAbi has registered for Ph.D under M G University.

STUDENTS ACIEVEMENTS

Riya Eldo and Rohit Joshy of S2 Second Year Direct 2018 batch won First Prize in Web Designing contest in INIZIO an intercollegiate technical fest organized by SNGIST, N. Paravoor held on 15th to 16th October 2018

Amal Joy, Abito Immanuel, Jibin Antony and Sebi Joseph (S4 MCA Second year Direct, 2017 Batch) students won First Prize in Best IT Team event conducted in intercollegiate techno & management fest "ZENORIX 2.0 held at Naipunya Instiute of management and Information Technology, Koratty on 22nd February 2019.

Adarsh V, Joseph Paul, and Amal Babu won First Prize in event Treasure Hunt conducted in intercollegiate techno & management fest " ZENORIX 2.0 " held at Naipunya Instiute of management and Information Technology, Koratty on 22nd February 2019.

Vinitta Varghese, Anu Paul, Shahanas V S andAnjaly Roy won Second Prize in event Treasure Hunt event conducted in intercollegiate techno & management fest "ZENORIX 2.0 " held at Naipunya Instiute of management and Information Technology, Koratty on 22nd February 2019.

Subin M S and Henric James won Second Prize in the event PC Doctor conducted in intercollegiate techno & management fest "ZENORIX 2.0 " held at Naipunya Instiute of management and Information Technology, Koratty on 22nd February 2019.

PAPER PRESENTATION

National conference -4

International Journal - 5

ADD-ON COURSE ON ADVANCED JAVA PROGRAMMING

MCA department has conducted anAdd-on course on "Angular2" for S4 MCA Regular 2017 batch from 2nd May 2019 to 1 oth May 2019 and S2 MCA second 2019 to 2019. The resource person was Rohit Joshy for S2 MCA (SD), MCA Department

SOCIAL OUTREACH PROGRAMMES

Social Visit is conducted by S2MCA Regular 2018 batch at Vimala Bhavan, Mattanchery on1StApri12019

MCA REGULAR & LATERAL PROGRAMMES INDUCTION MEET -2019

An Induction ceremony for the 14th batch of MCA Regular programme and 6th batch of MCA Lateral programme were conducted on 1 August 2019. Both parents and the students were invited to the function. All the dignitaries were welcomed by Mr. Santhosh Kottam, HOD, MCA.

The Induction Ceremony was thereby inaugurated by Mr. Paul Mundadan, Chairman FISAT who also delivered the Inaugural Address. The gathering was felicitated by Dr. George Issac, Principal, FISAT, Dr. C Sheela Vice Principal, FISAT, PTA President - Mr. Sunil A Menon. The distinguished dignitaries spoke about always being perpetually curious, spending quality time in fine tuning our skills and building a strong social and academic foundation thus carving out a successful future.

FAREWELL FOR FINAL YEAR STUDENTS

- Farewell programme for MCA 2017 lateral batch was conducted on May 2019. The Principal Dr. George Issac, Dr. sunny Kuriakose, Dean Student were delivered farewell messages.
- Farewell programme for MCA 2017 lateral batch was conducted on 14th May 2019. The Principal Dr. George Issac, Dr. sunny Kuriakose, Dean Student were delivered farewell messages.

STUDY TOUR

- S6MCA Regular 2016 Batch went for study tour. Dr. Sreeraj M and Ms. Anju L accompanied them.
- S4 MCA LE (2017 batch) went for Study Tour Mr. Jomon M C and Ms. Senu Abi accompanied them.

INDUSTRIAL VISIT

S4 MCA Regular (2017 batch) and S2MCA LE (2018 batch) students visited Open Trends Koratty on 2nd March 2019.

Department of Science and Humanities



DEPARTMENT OF BASIC SCIENCE AND HUMANITIES MAJOR ACTIVITIES 2018

1. Rolling Stone (Literary Club)

Rolling stone resumed its activities vigorously from the beginning of the academic year involving the Fresher's also from various branches in B.Tech classes. For Toastmaster's sessions, they met regularly twice a week Tuesday and Thursday in the evenings after class hours (4.30 - 6 PM) in the Seminar Hall. The senior students involved the juniors and inspired them to take part after observing Toast Masters norms for one session or two. In fact, there were 10 Toast Master's session in full swing followed by debates and discussions.

The Chairman, Mr. Paul Mundadan instituted P.V. Mathew Memorial Ever Rolling Trophy and it was given over to Abraham Jeevan Roy (S8 CS) with a cash Prize of Rs. 3000/-. The second prize went to Dhiyeri. P Joy (S8 ME) with a cash money Rs. 2000/-, and the third prize given to Lisabeth Maria George (S6 EEE).

An Endowment Fund instituted in the name of Vinaya Menon (EC) to the winners of Art and Literary Competitions were handed over to 5 students (Rs. 1000/- each).

Wall Painting : J.S keerthy (S6 EC), Karthika S. Jayan (S6 EC)

Spot Painting: Sukanya Suresh(S2 EC)

Poster Design : Namitha Krishnakumar (S2 ME)

- Debate :Antony V, Varghese (S8EC)

A book of Poems written by Dr. Molly Joseph, Myna's Musings was released by the Chief Guest followed by a Book Talk. The Annual Manuscript Magazine of Rolling Stone "Phoenix" was released by the Principal and handed over to the Chairman. It was followed by the cultural; a mono act by Anamika, (S4 CS); Macbeth, Banquet scene enacted on Stage by Akshay Ajith and team.

TEDx FISAT was organized by Rolling Stone on 16th October 2018. About 160 volunteers worked hard behind it. The TEDx License to conduct talks was attained by the sustained efforts of Sriram Sankar (Mechanical Engineering 2014-18) and Dr. Molly Joseph. About 10 speakers from various parts of the world gave speeches in different fields related to the topic "Breath taking Disarray". There were 4 performances in between. TEDx FISAT talks are now being telecast in You tube and it renders FISAT a global visibility

Conducted Bridge course for first year B. Tech students during the period of 09-07-2018 to 2007-18.

FACULTY ACHIEVEMENTS

Dr. C. Sheela

- Function Approximation with Deep Neural Network for Image classification in Fuzzy Domain, Appl. Math. Inf. Sci 11 (2017) 1725-1730. (International Journal).
- Delivered a lecture for plus-two students in an 'EMPOWER' camp. Invited talk for college students at NSS Hall, Aluva.
- Delivered a talk at Manikamangalam Higher secondary School.
- Inaugurated Science Exhibition in SHOHS Mookkanoor

Dr. Sunny Kuriakose A

Research : Approved Research Supervisor of the Mahatma Gandhi University Kottayam. Fourteen scholars have already been awarded Ph. D. and two scholars have submitted their Ph.D. thesis this year.

Publications

1. A Novel Feature Selection Method Using Fuzzy Rough Sets, Computers in Industry 97 (2018)
2. 111-116. (Co-authored with Sheeja T. K.)
3. Divergence Based Generalized Fuzzy Rough Sets, International Journal of Computer Sciences and Engineering 6(6) (2018) 809 - 815. (Co-authored with Sheeja T. K.)
4. A New Measure of Fuzzy Rough Uncertainty and Application to Image Processing
5. (Communicated) (Co-authored with Sheeja T. K.)
6. Efficiency of basis Elements and Fuzzy Weighted Graph, Applied Mathematical Sciences, Vol. 11, 2017, no. 59, 2941 - 2949 HIKARI Ltd, www.m-hikari.com <https://doi.org/10.12988/ams.11, 2017, no. 59, 2941 - 2949>

7. 2017.74153 (Co-authored with Manjusha R.)
8. Graphs Generated by Linear structure with constant Metric Dimension, Bulletin of Kerala Mathematical Association, June 2018. (Co-authored with Manjusha R.)
9. Invited Lectures
10. A different approach to learning Mathematics on July 24, 2018 at Sahradaya College of Advanced Studies
11. Applications of Mathematics in Real Life on August 2, 2018 at one day state level seminar, sponsored by Kerala Higher Education Council, Mar Thoma College for Women, Perumbavoor.
12. On Platonic solidsonAugust 9, 2018 at one day state level seminar, sponsored by Kerala Higher Education Councilat St. Peter's College, Kolencherry
13. On Fuzzy Mathematics — Some new trends, at the 2nd National Conference on Recent Trends in Fuzzy Mathematics and Its Applications organized during October 26 — 28, 2018 by SRM Institute ofScience & Technology, Ramapuram, Chennai.

Programmes attended

1. AICTE - ISTE sponsored Induction Programme on Teaching Engineering and Pedagogy for Effective Implementation of Outcome Based Education organized during July 16 - 21 , 2018 by NMAM Institute of Technology, Nitte, Mangalore.
2. KSCSTE sponsored National Seminar onAnalysis and its Applications during September 6 -7, 2018 at St. Teresa's College, Ernakulam.

Served as resource e person

- 1) Ph. D. Open defense andV1va—Voce Examiner onAugust 13, 2018 at SRM, Chennai
- 2) Adjudicated two thesis
- 3) External Expert for Academic Auditin St. Teresa's College (Autonomous) Ernakulam.
- 4) Intercollegiate Mathematics Quiz contest at Mar Thoma College for Women, Perumbavoor on August 2, 2018.

Dr. Molly Joseph

Received Poiesis Award o fHonour International on 20th May, 2018 as an international Jury. Kala Prathibha award by Chithrasala Film Society, Kerala

Conferred with Kala Pratibha Samarppanam by Kerala State Service Pensioners Union.

Invited to conduct poetry workshops in KISII University Kenya in October 2018.

Participated in the 6th Education of Kishfrec International Poetry Festival held in KISII University, from 3rd to 9th October 2018, read her poems and held sessions at Riara University, Migori Campus, Genesis Preparatory School, Bogiakumu Village.

Released two new books Hidumbi and Firefly Flickers by the Deputy Ambassador of Israel, His Excellency Eyall David.

Dr. Binimol Punnoose

- Attended a Faculty Development Programme on Graph Theory at Rajagiri School of Engineering and Technology, Kakkanad on 27th June 2018.

Dr. Sona Narayanan

Low Band Gap Donor-Acceptor Phenothiazine copolymer with Triazine Segment: Design, Synthesis and Application for Optical Limiting Devices, Journal of Luminescence 198, (2018) 449-456 (International Journal).

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She has contributed a book chapter, Metal oxide/hydroxide based materials for supercapacitors on book entitled 'Composite thin films for electrochemical capacitors '(Published by Materials Research Forum LLC Millersville, PA 17551 , USA

Attended Short term Course on 'Polymer and Hybrid Electronic: Physics and Device Applications ' conducted by GIAN at NIT Calicut.

Attended a workshop on 'Digital Fabrication Techniques' at FISAT on 12 -13 July 2018.

Presented a paper entitled "Theoretical and experimental investigation on the photophysical properties of EDOT-Thiophene Copolymers" at International Conference on Advances in Materials Science (ICAMS 2018) at Sankara College Kalady, 24-25 October 2018.

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Mr. Antu P.J.

Received NPTEL Online Certification for the courses on Graph theory, Advanced Graph Theory and Developing soft skills and personality.

He received a certificate of Appreciation from FISAT for his Outstanding and Selfless Services during Kerala Flood 2018.

Ms. Seena Varghese

Received NPTEL Online Certification for the courses on Graph theory and Advanced Graph Theory

Delivered a lecture on the topic "Introduction to graph labeling" on 07/06/2018 for the final year B. Sc students at St. Xavier's College for Women, Aluva.

Ms. Vidya T.P.

Attended an FDP on Digital Fabrication Techniques at FISAT on 12— 13 July 2018.

Dr. Palson T I & Vidya T. P. have published a book on Engineering Physics (Sree Krishna HiTech Pub. Chennai).

Mr. Eldhose P.Jacob

Attended an FDP on Digital Fabrication Techniques at FISAT on 12— 13 July 2018.

Dr. Palson T I

Dr. Palson T I & Vidya T. P. have published a book on Engineering Physics (Sree Krishna HiTech Pub. Chennai).

Mr. Sumesh G

Attended FDP on 'Technical Communication' conducted by 11TBombay.

Maths Club

The "Shinoy George Memorial Lecture" was conducted on March 22, 2019 to honour the memory of Mr. Shinoy George who served in the Department of Science and Humanities as Mathematics faculty from July 2013 to March 2018. The chief guest, Dr.Aparna Lakshmanan S, HOD, Dept. of Mathematics, St.Xavier's College for Women, Aluva delivered the lecture on the topic 'Graph Labeling (Coloring) and its applications.

Shinoy George Memorial Endowment Award for the most meritorious student in Mathematics was instituted on the same day.

A Foundation course for first semester B.Tech students was conducted from 01-7-2019 to 17-07-2019. Around 171 students attended the course. The course helped the students to strengthen their knowledge in basic subjects for Engineering.

The "Inter-Departmental Mathematics Quiz Competition for P.V. Mathew Memorial Trophy" was conducted on 31st October, 2019 . 23 teams participated in the competition. Dr. Sunny Kuriakose was the quiz master.

Rolling Stone

On 27th March 2019, Rolling Stone conducted an Elocution competition for the coveted P V Mathew Memorial Prize in honour of the founder Chairman of FISAT, Late Adv.P V Mathew . Students were required to speak about their Dreams for an Emerging India. Young ignited minds with vision and mission were challenge to talk about their dreams in an impactful way. Vipin Suresh of S4 EC bagged the coveted Trophy and Asulabha Sathyan of S4 EEE got second prize. The third prize was shared between Blessen Baby and Nithul TC of S2 CE.

The Vmaya Memorial Poetry and Story Writing competitions were held where a good number of students got an opportunity to participate. The competition has brought out exquisite talents of the students hidden away under bright lights of rigorous academics. The poetry competition winners were: First- Aiswarya Arun of S8 EC, Second- Asulabha Sathyan of S4 EE, and Third- Nair Ashwathy Harikumar of S8 EI. The short story writing winners are: First- Sagar Jose of S8 CS, SnehaAnn Joshy of S6 CS and Bryan Davis of S6 CS. The prizes were given away at the Rolling Stone Annual Meet where Dr. Krishna Bhaskar Mangalassery, Global head Social reach out wing of Aster Institutions was the Chiefguest.

Rolling Stone is working out the 2nd edition of TEDxFISAT on FEB 17TH 2020.

And besides these monthly events, the Rolling Stone club of FISAT holds regular Toastmaster sessions on Tuesdays and Thursdays guided by Dr. Molly Joseph. Students get an opportunity to speak out their minds on the craziest of topics freely. They can make mistakes and learn. Toastmaster sessions are conducted in accordance with Toastmasters International which aims at elevating skills of students to enable them to grow efficient as public speakers. Other activities include Switch, a literary game where a student is given two topics and is made to switch between the two seamlessly. Debates were also held on relevant topics like Artificial intelligence, Nature, effects of computer gaming on youth and so on, which help students to open out with their updated knowledge with confidence. The students themselves with the teacher coordinator manages these creative sessions after the class hours.

ACHIEVEMENTS OF FACULTY

Dr. C. Sheela

Published a paper (Function approximation with deep Neural Net works for Image Classification in Fuzzy domain) in an International Journal.

Served as a Curriculum Expert Committee Member in KTU (2019)

Delivered a lecture in an International Conference during Jan. 25 & 26, 2019 at Dubai

Delivered a lecture in a National Seminar on 'Topollogy and Analysis' organized By Dept. of Mathematics, University of Calicut on 9th May 2019.

Successfully completed basic course in 'Transactional Analysis ' conducted by ICT.

Dr. Sunny Kuriakose

Quiz Master in the PV Mathew memorial quiz competition held on in FISAT

Served as External Examiner for the Ph. D. open defence in Hindustan University, Chennai.

Adjudicated three Ph. D. thesis of the Bharathidasan University, Tamilnadu.

Attended Four days FDP on Quality initiatives in Technical & Higher Educational Institutions during May 27 — 29, 2019 at Engineering Staff College, Hyderabad.

won much approbation. She is now in the list of global writers who work for global peace and environmental care.

She has authored 10 books and released the latest 3 books "It Rains" and "Where Cicadas Sing in Mirth "(English poems), Pokkuvayil Vettengal (Malayalam poems) in 2019 and keeps on contributing to Online International Journals. Her Story series in PCM Children's Magazine ' Billu Dillu and Masai Mara" is running its 10th episode as a popular series.

Sumesh G

- Participated in National Seminar on 'Computer methods on Applied Mathematics and Engineering' during 15 & 16 May 2019 at NIT Calicut Prince Joseph Seena Varghese
- Participated in ADMA Annual preconference workshop on Graph Theory & Python at Christ University Bangalore during 09-12 May 2019.
- Participated in International Conference on Graph Theory & and its Applications at Amrithavishwa vidyapeetham during 04-06 January 2019.

Sajana Shamsuddin

Successfully completed NPTEL Course on 'Enhancing Soft Skills & Personality' during Feb-Apr 2019 and secured Elite Silver Grade.

Nyci Ignatius

- Successfully completed NPTEL Course on 'Enhancing Soft Skills & Personality' during Feb-Apr 2019 and secured Elite Silver Grade.

Thomas Philip

- Successfully completed NPTEL Course on 'Enhancing Soft Skills & Personality' during Feb Apr 2019 and secured Elite Silver Grade.

Nizamudeen Akbar

Successfully completed NPTEL Course on 'Enhancing Soft Skills & Personality' during Feb Apr 2019 and secured Elite Silver Grade.

Dr. Sona Narayanan

Published one research paper, Theoretical design, synthesis and studies on the solvatochromic behaviour of low band gap phenylenevinylene based copolymers, European Polymer Journal, 113, 2019, 365-376.

Presented a research paper at National Seminar on Current Trends in Chemistry(CTROC2019) Morning Star College, February 2019.



Extra curricular and co curricular activities

Science And Technology Park and Research Centre



FLAGSHIP PROGRAMMES

Idea to Product Maker Workshop : It's a 3 Day hands on workshop. The workshop gives an opportunity to experience real time challenges in different stages of product development such as problem identification, feasibility study, technology development, prototyping, testing, market survey, development of marketing strategy etc.

Digital Fabrication Technique : The digital fabrication technique is a programme initiated by FISAT Science and Technology Park and Research Centre to spread awareness of digital fabrication

and to promote technical and training services given by FISAT FabLab and Mobile Fablab. The programme is indented to student community, rural innovators, manufacturing industries, research scholars etc.

Professional Enhancement programme :The professional enhancement programme aims for enhancing the creative thinking and innovative product making capabilities of participants. Its 5 dayresidentialprogramme meantfor teaching faculty,research scholarsandindustry people.

Fab@School :Fab@School is a project intended for school students to enhance their knowledge, skills and practical wisdom in STEM (Science, Technology, and 'Engineering & Mathematics).

Mobile Fablab won first prize in project exhibition conducted by Sacred Heart College, Thevara. aims to enhance a "maker mind" in young generation by providing them the state of art facilitates of FISAT Fablab and to mould them as a competent citizen for meeting the national imperative.

Additional Skill Development Programme :Additional skill development programme is being offered to public which aims to improve their knowledge in latest technology. Technical staffs, students community, self helping groups are the targeted group for this programme

FISAT Weather Station :students from Fab Lab created a weather station for the general public to know the weather conditions of the state in different locations

Outcome :The stakeholders of these programmes could able to manufacture and market test several innovative products. Many patents have been applied for the products developed through this programme. The entire system is promoting the 'Make In India' and 'Skill India' initiatives by Government of India. The following are the out come:

List of School Affiliated to FISAT FABLAB thorough Fab@School project

SL.NO	SCHOOL NAME	PLACE	SYLLABUS
1	St. Joseph's Girls H S S Karukutty	Karukutty	STATE
2	Naipunnya Public School	Paduvapuram	CBSE
3	Star Jesus H S S Karukutty	Karukutty	STATE
4	Adam Public School	Karukutty	CBSE
5	Govt.High School Pallissery	Karukutty	STATE
6	Sacred Heart English Medium School	Mookkannur	CBSE
7	SHOHS, Mookkannur	Mookkannur	STATE
8	Holy Family H S Thabore	Thabore	STATE
9	Govt. H S S Mookkannur	Mookkannur	STATE
10	Holy Family school	Angamaly	STATE
11	St. Patrick's Academy,	Manjapara	ICSE
12	Jyothis Central School,	Manjapara	ICSE
13	Govt H.S.S. Manjapara	Manjapara	STATE
14	St: Joseph HS	Angamaly	STATE

15	Mar Augustine's H. S. S.,Thuravoor	Thuravoor	STATE
16	MGM H.S.S., Nayathode	Angamaly	STATE
17	LF H.S., Muringoor	Muringoor	STATE
18	Viswa Joythi Public School	Angamaly	CBSE
19	NSS HSS ,Manickamangalam	Kalady	STATE
20	St. Joseph's HSS	Kidangoor	STATE

MOBILE FABLAB

- Mobile Fablab visited at Christ University, Bangalore at 3rd Rashtriya Adhiveshan of Vijnana Bharati.
- Mobile FabLab visited along with student community at CSI Auditorium, Angamaly and Kaipamangalam.
- Mobile Fab Lab exhibited and open show of Technology at Sri Bhudha College of Engineering and Technology, Pattor, Alapuzha.

PROGRAMMES/ WORKSHOPS CONDUCTED BY SPARC

Date	Name Of Programme	Category	No of Beneficiaries
1/1/2019 to 4/1/2019	Mobile FABLAB Exhibited at SH College, Thevara	Entrepreneurship / Innovation	2500
25/1/2019	Technology Popularization programme at Morning Star Home Science College Angamaly	Entrepreneurship / innovation	350
12/02/2019	Pre Techfest Workshop on "Information security & ethical Hacking"	Workshop	50
23/2/2019	Career Guidance Programme at Crescent Public School, Chalakudy	Entrepreneurship / Innovation	400
2/3/2019	Technology Popularization programme at St: Patricks Academy, Manjapra	Entrepreneurship / Innovation	800
16/03/2019	Arduino Day 2019 Workshops/ Innovations		50
18/3/2019	Computer Training Programme for UBA Adopted villages	Workshop	10
29/3/2019	Career Guidance Programme - VBHSS Thrissur	Entrepreneurship/ Innovation	100
30/3/2019	Career Guidance Programme St:Thomas HSS Malayattoor	Entrepreneurship/ Innovation	100
26/4/2019 & 27/4/2019	FABDAY 2019	Entrepreneurship / Innovation / workshop	300

10/7/2019 to 13/7/2019	FDP in creative teaching and makers workshop	Entrepreneurship / Innovation / workshop	30
23/7/2019 to 28/7/2019	First Year Orientation & induction programme	Entrepreneurship/ Innovation	580
15/9/2019 to 19/9/2019	3D designing course	Workshop	27
20/9/2019	Launch of "3D Printing and designing course" by Dr. K. T. Jaleel, Minister for Higher education.	Innovation	800
1/11/2019	Launch of "KPMG Centre of Excellence and Maker fest Kerala" by Shir. V Muraleedharan, Minister of State for External Affairs	Entrepreneurship/ Innovation	750
18/11/2019	Technology Popularization programme at Vidyadhiraja Vidya Bhavan Higher Secondary School, Aluva	Entrepreneurship/ Innovation	1000
21/11/2019 to 22/11/2019	Mobile FABLAB Exhibited at Balanagra ITC, Mookkannoor	Entrepreneurship/ Innovation	2000
29/11/2019	Technology Popularization programme at Govt. HSS, Puliyanum	Entrepreneurship/ Innovation	800

Major Achievements of SPARC

- Mobile Fablab won first prize in project exhibition conducted by Sacred Heart College, Thevara.
- Signed MoU with C- DiT (Centre for Development of Imaging Technology) and C apt Multimedia academy for conducting add on course in our campus.
- Signed MoU with Keltron, Trivandrum.
- Commenced the activities of Unnat Bharat Abhyan Cell (UBA) -Flagship program of Ministry of HRD.
- MHRD innovation cell awarded 3 star rating for FISAT Institution innovation cell for its activities during the academic year 2018-19.
- FISAT FABLAB Team comprise of Mr. Jiby Varghese, Mr. Renjith R and Mr. Alexjolly have participated and successfully presented two innovative projects in Virtual Reality and Intelligent system at International FABLAB Conference - FAB 15 in Cairo, Egypt on 2nd August 2019.
- Team 'G'Xtron Innovations' a start-up initiative by FAB student community is selected to feature in Flowers TV channel startup program. The team has got recognition from Kerala Start Up Mission (KSUM) by granting fund for a feasible and scalable startup idea during 'idea fest' finals.
- IRIS project developed by FABLAB team got " Best AI Product" award for the National Level Artificial Intelligence (AI) fest conducted in GEC, Kannur
- Mr. Ajay baby and Mr. Rythin Nambiar, student members of Institution Innovation cell (ICC) has participated in national level exhibition of student projects at AICTE head Quarters, New Delhi organized by Ministry of HRD, Gov. of India.
- Mr. Paul Elias Sabu, student member of Centre for Cyber Innovations (CCI) has participated at Open source Linux conference organized by Linux Association on 30th October at Paris, France.



FISAT Flood Relief Activities

Rescue Operation : The staff and students of our institute took part in rescue operations centred at Angamaly, Aluva and other parts of Emakulum and Thrissur Districts. 20 staff members and 40 students have taken part in this rescue activity during flood. The FISAT National Service Scheme Technical Cell has done a commendable work in flood relief and rehabilitation project.

Relief Works :Our relief works included collecting food items, textiles and medicines for stranded people in camps. The main areas of relief work was Angamaly and Aluva. Our staff members and students have distributed relief material in 14 camps in and around Emakulum District.

Cleaning Activities : FISAT NSS Technical Cell co-ordinated commendable cleaning activities in the houses affected by flood in Angamaly Municipal Area, North Kutiyathode, South Aduvaserry and Chalakudy areas. 150 NSS student Volunteers and 500 other students have taken part in the cleaning drive from 19th August to 2nd September 2018. Our students cleaned 2 schools in Angamaly regions in these days. Volunteers have cleaned more than 150 houses in these regions

NSS volunteer also helped the school students affected by flood by writing note books to those who lost. We extended our service to 5 schools named GHSS, Manjapara, Holy Family High School, Angamaly, St. Patricks School, Manjapara, St. Joseph HSS Angamaly, De Paul School, Angamaly. Around 300 students helped the school students from 30th August to 2nd September.

PUNERJJANI 2018 Project :A Rehabilitation project named "Punerjjani" is initiated by FISAT NSS Technical Cell at Angamaly and other affected areas covering 300 houses. As a first phase 100 houses in Angamaly area are identified for renovation. An amount of Rs. 50 lakhs is estimated for this project. NSS volunteers and other volunteers from FISAT are coordinating the work. In each day a total of 60 students worked at rehabilitation work site. Plastering and painting jobs were carried out in this project. The work started at St. George Nagar, Edathodu Colony, Angamaly. The institution identified a homeless family in the area and undertook the construction work of a new house. We could also complete the relief work at Charkola colony and Kayyethumkuzhi colony as well.

Flood Renovation Works in Two Phases: In the first phase of Punnerjanni we could renovate 100 houses in Edathodu Colony Angamaly, affected by flood and in the second phase, renovation and rehabilitation of remaining damaged houses were also completed at Charkola colony and Kayyethumkuzhi colony Angamaly. The Resident Associations in the locality organized meetings as a token of their gratitude FISATians and to honour our teachers and students who selflessly worked for the success of this project. .

New Houses for Homeless : With the support of NSS Technical cell we could start the construction work in 3 new houses in Angamaly and Nedumbassery area for the families, who lost their homes during flood. The foundation stone laying ceremony for 3 houses was held on 24th September 2018 by Mr. Paul Mundadan, Chairman FISAT. These three houses are nearing completion.

Service of Mobile Fabalab : FISAT has leveraged the facility of Mobile Fablab to do free servicing for electrical and electronics equipments affected by flood. They camped at Angamaly from 31st August to 2nd September and freely serviced hundreds of electronics goods which were damaged in floods.

Flood Relief Survey : The Student volunteers and staff of FISAT conducted survey for flood affected houses in Nedumbassery and Mookkannoor panchyaths on 9th, 16th, 22nd September 2018. Around 250 students participated in this survey activity and 2500 houses were covered. The Honourable District Collector Muhammed Y Safarulla appreciated our effort in conducting the survey and the relief activities.

Chief Ministers Distress Relief Fund : FISAT donated Rs.10 lakhs to the Chief Minister's Distress Relief Fund for the flood relief activities.



MOBILE FAB LAB

JAN 23 2019

A TRAINING SESSION IN MOBILE FAB LAB AT SHOHS MOOKKANNOOR



MOBILE FAB LAB

Mobile Lab exhibition at the SHOHS School, Mokkannoor.

Centre For Continuing Education (CCE)

- Four Faculty Development Programmes on "ICT Enabled Teaching Pedagogy" in association with IIT Bombay
- Certification program from ISRO & HRS
- 1.5 Lakhs funding from IITB for purchasing kits in Robotics lab
- One FDP in Robotics in association with Eyantra Project IIT B
- First prize in All India Robotics Competition conducted by IIT Bombay
- 16 Senior students and 32 Junior students being mentored under the Center for excellence in Robotics set up in association with IIT Mumbai
- Three students selected for summer internship conducted by IIT Mumbai

Institute of Electrical and Electronics Engineers

(IEEE)



ROBOTIC CONCLAVE

MAY 1

Dr P H Kurian, Former Principal Secretary inaugurating the National Level Robotic Conclave 'DROID 19' at FISAT Auditorium

Major Activities 2018

1. IMPULSE 3.0, 3 Day National level WIE event, Date :23rd, 24th & 25th Feb. 2018
2. Workshop, Virtual Reality in connection with Nautilus 2kl8, Date: 11thFeb. 2018

3. Annual General Body meeting, Date :11thApril2018
4. IEEE Internship Program :
5. IOT
6. Android development & Java Date: 6th-13th July 2018
7. IEEE Orientation Program For 1stYear B.Tech. students
8. Debate, Topic : 71 years of freedom; whether India has utilized its resources & Technology in the right manner to achieve development, Date : 15thAug. 2018
9. Volunteer Training, To develop leadership quality and enhance skills of SB members as team players, Date : 8thAug.
10. Ted Talk Competition for first years as a part of AVISHKAR 2kl8, Date: 14thAug. 2018
11. ARISE 4.0, Date :20th,Sep. 2018
12. AKSC 18, All Kerala Student Congress -Annual flagship event of IEEE Kerala section
13. 3 day All Kerala technical event, Date :21st, 22nd & 23rd Sep. 2018
14. C Programming workshop, Date : 12th Sep. 2018
15. Texvotech talk, Date : 11th Oct. 2018
16. IEEE day celebration & Managerial Workshop, Date : 2nd Oct. 2018
17. IEEE Day Quiz, Date : 4th Oct. 2018
18. C programming workshop, for 1st years, Date : 9th, 10th, 11th Oct. 2018
19. KSEB Quiz Competition, Date : 30th Oct. 2018
20. Google Firebase workshop, Date : 6th Nov. 2018
21. Web designing workshop, Date : 2nd, 7th, 8th Nov. 2018

NSS TECHNICAL CELL

- Asset Recreation at PHC- March 18 :Various asset (equipments, beds etc) as well as walls of the Primary Health Centre (PHC) at Thuravoor was painted by NSS volunteers. Volunteers recreated an asset of Rs. 4 Lakh.
- Awareness class on Substance abuse-April 5 :Deputy Excise Commissioner of Ernakulam gave a talk on substance abuse to students.
- World Environment Day - 5th June 2018 :As part of environment day NSS FISAT supplied different varieties of plants to the 10 nearby Schools and then official inauguration was held at St. Joseph's H S Kidangoor. NSS volunteers and program officers took part in the function.
- Snehakuppayam :A dress donation campaign called 'Snehakuppayam' for the needy people of Attapadi was organized. We collected the dress from students as well as from teaching and Non staffs. The dress collected were sorted and packed by the volunteers and it was handed over by Jiby Varghese, NSS programme officer to the NGO representative on August 13th. Due to the poor climatic condition it was not able to hand over to people of Attapadi and it was provided to the relief camps.
- Independence Day - 15th AUGUST 2018 :The National flag was hoisted at 8 am. NSS volunteers took part in it.
- Rescue, Relief, Rehabilitation Activities : NSS volunteers took part in the rescue and relief activities during the time of flood and Post flood activities at various locations. FISAT NSS Unit has initiated project for rehabilitating 300 homes. The NSS unit took the lead role in constructing 3 new houses for 3 homeless people.
- NSS Day :As part of NSS day a poster making competition was held.
- Surgical Strike Day : On the 2nd anniversary of Indian Army's surgical strike on Pakistan in reply to the Uri attack was observed by the NSS Technical Cell FISAT. Col. Shaji M Varghese (Retd) addressed the students.

Gandhi Jayanthi - 2nd Oct 2018 :As a part of Gandhi Jayanthi a poster making competition was held, also a cleaning program was held at Angamaly. Around 40 nss volunteers attended the inauguration program of GREEN CAMPUS, SAFE CAMPUS held at govt. Polytechnique, Kalamassery. Shri Muhammad Y Safarulla (Dist. Collector Ernakulam) inaugurated the program.

Day to remember : The flagship program "day to remember" was conducted on 13/10/18 at Aeli Hills Aluva. The day was well spent with differently abled children where volunteers gave their sincere efforts to make it successful. Jiby Varghese NSS programme officer conducted the programme. Mr. Tom Anto, NSS programme officer and other staff from college was present on the occasion.

MAJOR ACTIVITIES 2019

- Under the leadership of FISAT NSS unit, 3 new houses were built for Kerala Flood 2018 affected people. The Key handing over ceremony for new houses was held on 23rd February 2019 at Edathodu Colony, Angamaly. Sri. K Krishnankutty, Hon'ble minister for water resources was the chief guest

GENERAL

- Many value added programs like international and national conferences, workshops Tech fests, project exhibitions and seminars were conducted to provide students a professionally accomplished educational experience.
- Intensive training programs including "Turning Point" were organized by the Placement and Training cell for the final year B.Tech degree students for facing the campus recruitment.
- The Placement Cell has been successful in placing all the eligible students in multinational companies.
- ManPower programme is conducted for fourth semester students.
- Professional student bodies like ISTE, IEEE, ISA and CSI and Technical Forums like Thyra, Echo, Electra, Idea, Matrix, Forum, MCA Association and FFSC are very active in the college.
- Actions were taken to submit documents to AICTE, MG University and KTU regularly and accordingly approvals and extensions were obtained in time.
- Staff members are encouraged to attend short term courses and conferences and present papers.
- Remedial classes were conducted for students who joined late or having below average performance. Get-together of parents is held in every Department for evaluation of their wards.
- Parent Teacher Association is very active in the day to day affairs of the college.
- The Alumni association 'FISTAA' is very active in the college.
- Internal audit of ISO is conducted on every six months to maintain and improve quality.
- FISAT is an online examination centre for GATE, MAT, JEE, VIT, TCS, TOI, IBPS-CWE etc.

SPORTS & GAMES

Faculty Development Programs attended

Sl No	Name	Programme
01	Arun S	"Multivariate Data Analysis" organised by KSTE at GEC Thrissur
02	Amal Dev T S	Attended FIFA - D license camp organised by Reliance Youth Football Foundation



PROFESSORS CUP

All Kerala Teachers cricket tournament called Professors Cup won by FISAT PROFESSORS TEAM Held at St Pauls College Kalamassery

Individual Achievements

SLNO	NAME	ACHIEVEMENT	LEVEL OF TOURNAMENT
01	Nandini Menon	Bronze Medalist & Gold medallist	<ul style="list-style-type: none"> National Youth TableTennis Tournament 2018-19 Dr APJ Abdul Kalam Technological University Tabletennis Tournament 2017-18
02	Hajira Althaf	Team member	<ul style="list-style-type: none"> Dr APJ Abdul Kalam Technological University

			Volleyball team 2017-18
03	Rosemol Wilson	Team member	● Dr APJ Abdul Kalam Technological University Volleyball team 2017-18
04	Dilshada Sabnam	Team member	● Dr APJ Abdul Kalam Technological University Volleyball team 2017-18
05	Swathi S	Team member	● Dr APJ Abdul Kalam Technological University Volleyball team 2017-18
06	Anan Ashraf	Team member	● Dr APJ Abdul Kalam Technological University Volleyball team 2017-18
07	Ajay Diji	Team member	● Dr APJ Abdul Kalam Technological University Basketball team 2018-19

FISAT TEAM ACHIEVEMENT

SI No	Name	Achievement	Level Of Tournament
01	FISAT Cricket team	Third position	Dr APJ Abdul Kalam Technological University Zone D
02	FISAT Foot Ball team	winners	All kerala inter collegiate Foot ball tournament Rajagiri Trophy 2017-18
03	FISAT Volleyball	Runner Up	Dr APJ Abdul Kalam Technological University D Zone for Women 2017-18 & 2018-19
04	FISAT Basketball Men	Winners	Dr APJ Abdul Kalam Technological University D Zone for Men 2018-19
05	FISAT Table Tennis Men	Winners	Dr APJ Abdul Kalam Technological University D Zone for Men 2018-19
06	FISAT Basketball Men	Second Runner Up	Dr APJ Abdul Kalam Technological University Inter Zone for Men 2018-19 at Mohandas college of Engg, Thiruvananthapuram
07	FISAT Foot Ball team	Runner Up	Dr APJ Abdul Kalam Technological University D Zone for Men 2018-19
08	FISAT Foot ball team	Winners	Penalty Shootout Competition Organised by Kerala Excise Department for college students at MA College, Kothamangalam

Tournaments Hosted

SL NO	TOURNAMENT
1	Dr APJ Abdul Kalam Technological University Tabletennis Tournament 2018-19 Zone D (Men & Women)
2	FISAT Annual Athletic Meet 2018



SAURA PROJECT INAUGURATION

12.03.2019

Mr N S Pillai, CMD KSEB, Inaugurates the Saura - Solar project Training at the college Auditorium.

FISAT TECHPLANET

FISAT TECHPLANET An innovation & entrepreneurship summit, inaugurated by Hon. Justice (Rtd) P. Sathasivam on 27th September 2018. The programme was comprised of Rural Innovators Meet, Panel Discussions, Lecture Series, Project Competitions and Hackathons for both college and school students across India.



Rural innovation on display

The aim is to bring out and recognize the mettle of the young scientists and entrepreneurs and their socially relevant projects into the realms of the social strata. It is an event organized every year with prizes and scholarship worth lakhs. Young scientists and entrepreneurs are encouraged to bring out their talents for the benefit of the society. With a view to enable this, FISAT has set up a fully fledged Federal Labz and a modern Fab Lab to incubate start-ups and innovation inside the campus..



Students exhibiting their innovative projects

ARTS



INAUGURATION OF BHARATHAM 2K19

FEB 6 2019.

Mr Peter Haine Chief Stunt Artist Inaugurates the National Cultural Fest 'Bharatham 2K19'



A Scene from the National Cultural Fest Bharatham 2K19 at FISAT Auditorium

