



SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

VISION

Saint Gregorios Institutes of Technology and Sciences (Saintgits) will be among the globally renowned educational institutions by 2025. We will be known nationally and internationally for:

- High-quality faculty
- Rigorous research culture
- Academic freedom to pursue cutting-edge technology applications
- A strong focus on making our youth ready for promising careers
- A value system with trust and empowerment at all levels

MISSION

The Saintgits mission is to educate and train students for overall leadership in industry, research, and all other spheres of life through career-oriented courses and mentoring programs that:

- Help students develop critical thinking abilities and a problem-solving approach
- Emphasize development of confidence with versatility of mind
- Prepare the individual for a life time of learning and professional growth





15th Commencement ceremony was held on July 8, 2020 in virtual platform. Padma Bhushan Kris Gopalakrishnan, the renowned global business and technology thought leader and co-founder of Infosys was the Chief guest of the programme. The Best outgoing students of each program were acknowledged with a memento and certificate. Also felicitations were also given the outgoing students of all batches for their outstanding academic, co-curricular & extra curricular achievements.



The induction programme of B. Tech. 2020 batch was conducted on 6 & 7 November 2020 in different batches ensuring social distancing and safe environment in view of the Covid situation. Dr. Varghese Punnoose, Professor of Psychiatry at Govt Medical College Alappuzha interacted with parents of the newly joined students. This was followed by the orientation programme and bridge courses. Induction Training Programme (SIP) spanned 2 weeks and primarily focussed on inculcating confidence among students to undergo professional education by providing a constructive attitude and stimulating excitement for learning. The Bridge Coaching Programme aimed to abridge the knowledge gap between Plus-two studies and Engineering.

REPUBLIC DAY 2021



The flag hoisting ceremony in connection with the Republic Day celebrations was held on January 26, 2021 (Tuesday) in the college. Dr. Girilal M, HOD of Food Technology hoisted the National Flag. Faculty Members, National Service Scheme volunteers and students attended the ceremony.

DISTINGUISHED LECTURER PROGRAMME



Saintgits IEEE student Branch in association with the Saintgits Institute of Artificial Intelligence and Machine Learning (SIAML) organised a Distinguished Lecturer Program by Dr. Lizy K. John, Fellow IEEE, Professor, Department of Electrical and Computer Engineering, the University of Texas at Austin at the RB Seminar Hall on 10th January 2020. The topic of the lecture was "Machine Learning for Performance and Power Modeling / Prediction". The programme was followed by an interactive session with Dr. Lizy K John on the topic "Admission process and opportunities for higher studies/ research in the US ". The programme was presided over by Thomas T. John, Director, SAINTGITS Group of Institutions. Dr. Soosan George (Principal, SAINTGITS College of Engineering), Dr. M. D. Mathew (Dean PG & Associate Provost), Prof. Mini Punnoose (Governing Board member and Director MCA), Dr. Shajimon K. John (Vice Principal, Academic Coordination), Prof. Susan Abe (Dean ECI & HOD EEE), Dr. Wilcy M. (Dean CS & IT), Dr. Santhosh P. Mathew (Associate Dean - Saintgits Institute of Artificial Intelligence & Machine Learning), HODs of ECE, CSE, MCA and AEI departments attended the function.

DEPARTMENT OF CIVIL ENGINEERING

STUDENT ACHIEVEMENTS

- 18 students got placement in companies like Infosys, TCS and Federal Bank.
- Mr. Abhishek Kurian got an opportunity to do an internship for a period of six months at Green Building Research Institute (GBRI), New York, USA.
- Final year B.Tech. Project "Early Strength Characteristics of Emulsified Rap Mixes" by Saju Mathew, Nishanth Manoj, Telma G Puthenpura and Sara Soji got financial assistance from KSCSTE of Rs. 10,000.

NATIONAL CONCRETE CANOE COMPETITION

ASCE Saintgits team constructed the first floating concrete canoe in Kerala. The canoe was named "Jatayu". The team won "Rising Star Award" for their dedication and innovation in 2020 and became second runners up in 2021.



ASCE INDIA REGION ANNUAL CONFERENCE

Civil Engineering Department of Saintgits College of Engineering has made remarkable achievements in the India Region Annual Conference of ASCE, held at Vellore Institute of Technology. Various students from our college have participated in this National Level Event. Our students have showcased their talents well and achieved several prizes.

VENUSTAS 21

VENUSTAS is the annual technical festival organized by ASCE Saintgits Student Chapter. Three technical events were conducted, "Modelling Magnifico", "Trail Blazer" and "Cityscapes". Various students across the country participated.



ETERNIA 2020

Eternia'20, National Level Technical Fest was conducted online on 5th December 2020 and received an overwhelming response in all its events and was a magnificent success. Mr. Kashyap Krishna P was the Project Manager and Mr. Adithya J Mallan & Ms. Varenaya R were the Assistant Project Managers. Students actively participated in all the events and presented their work. The fest executed with a total of 18 events planned and organized at its best of quality. The various events of Eternia'20 indulge a total cash prize worth rupees one lakh.



WEBINARS

- ACES in association with IEDC Saintgits Student Chapter conducted a webinar on "STARTUP- Capturing the Potential of Young Engineers" on 25th August, 2020. The speaker was Dr. Saji Gopinath, CEO, Kerala Startup Mission.



- ACES organized a webinar on "Introduction to Construction Project Management" on 14th August 2020. The subject expert was Er. Sinu Philip Varghese, NAEL Contracting, Abu Dhabi.



NON-TECHNICAL EVENT

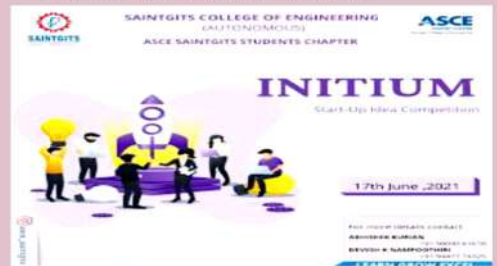
ACES organized an online competition 'ENIGMA' exclusively for the Civil engineering students of Saintgits. The competition intended to explore the creative skills of our students.

STUDENT ASSOCIATIONS AND CHAPTERS

ASSOCIATION OF CIVIL ENGINEERING STUDENTS (ACES) has been the pride of the department since its inception in 2006. The association has been instrumental in providing the students an exposure to recent advancements in the area of Civil Engineering. It provides the students an opportunity to conduct and coordinate various activities. The technical event "ETERNIA" is organized and conducted by ACES every year providing excellent platform for the upcoming civil engineers to showcase their talents and technical knowledge.

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) SAINTGITS STUDENT CHAPTER

Ever since ASCE Saintgits Student Chapter was established in 2018, remarkable achievements are being shown by students in various activities and events conducted by various colleges across the country. ASCE Saintgits Student Chapter received honorable mention for its outstanding activities, the recognition received by only top third of all student organizations in the world.



INDIAN CONCRETE INSTITUTE (ICI) A webinar on the topic "Career Openings for Civil Engineers in Public Sector" was conducted on 8th May 2021 by the chapter. The webinar was organized for all ICI members of final and pre-final year students of civil engineering department for career guidance.

INSTITUTION OF ENGINEERS INDIA, SAINTGITS STUDENTS CHAPTER, CIVIL DIVISION has conducted a series of webinars on the topics "Resilient and Permanent Extra Terrestrial Habitat", "Civil Engineering Employability post Covid-19", "Illustrating the Instrument Approach and Other Critical Facilities at an Airport for Enhanced Safety of Landing Aircraft", "Introduction to Plaxis and its Practical Application", "Prospects of a Graduate Engineer" by eminent subject experts during the academic year 2020-21 and a seminar presentation competition was conducted for the Civil Engineering students on the topic "Protecting the Planet with Standards" in connection with World Environment Day.



DEPARTMENT OF CHEMICAL ENGINEERING

INDUSTRY INTERACTION

Department has organized an industrial visit to Bharat Petroleum Kochi Refinery, the largest public sector unit (PSU) refinery in India to understand how we fuel the Nations Progress.

The study tour for the students was a part of Azadi Ka Amrit Mahotsav, an initiative under the aegis of the Ministry of Petroleum and Natural Gas, Government of India.



FACULTY ACHIEVEMENTS

Dr. Lisha K P, was the resource person for the expert talk on "Genome-Scale Metabolic Models: A tool for predicting Biological Capabilities" on 12-08-2020 organized by Institution of Engineers (India) students chapter, Saintgits College of Engineering, Kottayam.

Dr. C Ajith, was the resource person for the expert talk on "Structure-property relations in hydrophilic polymer electrolyte membrane" on 9-10-2020 organized by Institution of Engineers (India) students chapter, Saintgits College of Engineering,

RESEARCH & DEVELOPMENT

KTU CERD Funded Research Projects (Faculty)

Dr. Lisha K. P., HOD in-charge of the department received an amount of Rs 1,05,000/- for the research work on the topic "Development of nanoscale manganese dioxide based filter system for the removal of iron contamination from water".

Er. Priwya Peter, Assistant Professor of Chemical Engineering department received an amount of Rs.1,40,000/- for the research work on the topic "Development of polypropylene based carbon fabric/carbon nanotube composite sheets for automobile applications".

PLACEMENT / HIGHER STUDIES

Our final year B tech students got placed in core companies like KMML, Sud - Chemie India Private Limited, Apollo Tyres etc

Higher Studies—De Montfort University, Leicestershire, UK, Coventry University UK etc

TECHNICAL VISITS / TALKS



Interactive Session by Dr. Vaishakh Nair, Assistant Professor, Department of Chemical Engineering, NIT Karnataka on the topic "Sustainable material from biowaste" on 11th March 2022.

Expert talk by Dr. S Rangabhashiyan, Assistant Professor, School of Chemical and Biotechnology, SASTRA University, Thanjavur on the topic "Sustainable approaches in waste water treatment" on 10th September 2020.

Expert talk by Dr. Lisha K P, Assistant Professor, Department of Chemical Engineering, Saintgits College of Engineering on the topic "Genome-scale metabolic models: A tool for predicting biological capabilities" on 12th August 2020.

Interactive Session by Dr. K. Thomas Chandy, Professor & Academic Advisor, Saintgits Institute of Management on the topic "Chemical Engineering—An industrial viewpoint" on 6th December 2021.

Interactive Session by Dr. Shanmugam Manivanam, Senior Post-Doctor Researcher, Department of Chemistry, Incheon National University, South Korea on the topic "M-13 virus based biosensor probes for aggregation free detection of heavy metal ions" on 18th November 2020.



Expert talk by Dr. Anujan S., Mentor to Dangote Oil Refining Co. Ltd., Nigeria on the topic "Process Engineering from an industrial perspective" on 17th October 2020

Expert talk by Dr. Anujan S, Mentor to Dangote Oil Refining Co. Ltd., Nigeria on the topic "Interview session—1" on 31st October 2020

Interactive Session by Ajay Satpute, Managing Director, Converge Engineering Pvt. Ltd., Maharashtra on the topic "Process plant design with Aspen HYSYS" on 26th August 2020

Expert talk by Sooraj S. Nair, Senior Process Engineer, Haldor Topsoe India Pvt. Ltd., on the topic "The building of a Process engineer: from classroom to industry" on 11th July 2020

PUBLICATIONS

Dr. Ajith C, Assistant Professor, Chemical Engineering Department, published the paper titled "Crosslink induced heterogeneity effects on water diffusion and proton conductivity of hydrophilic ionic polymer membranes".

Dr. Nivedita S, Assistant Professor, Chemical Engineering Department, published the paper titled "Performance of polycaprolactone/ TiO2 composite membrane for the effective treatment of dairy effluents".

Dr. Nivedita S, Assistant Professor, Chemical Engineering Department, published the paper titled "Optimization of process parameters for PCL-PEG-TiO2 composite membrane using response surface methodology".

Dr. Prince George, Assistant Professor, Chemical Engineering Department, published the paper titled "Enhanced photocatalytic performance of novel S2-doped MIL-53(Fe) under visible light

Dr. Nivedita S, Assistant Professor, Chemical Engineering Department, published the paper titled "Thermodynamic analysis of phase diagram of H2O-DMF-PCL system: investigation on the influence of inorganic".

ASSOCIATIONS / STUDENT CHAPTERS ACTIVITIES

A Technical Talk was conducted by Dr. Vaishakh Nair, Assistant Professor, Department of Chemical Engineering, National Institute of technology Karnataka on Sustainable material from biowaste.

The event was organized by the Institute of Engineers India (IEI) student chapter of Saintgits : Chemical Engineering division.

The talk was attended by faculty members of Chemical Engineering Department and the final year Chemical Engineering students.



STUDENTS ACHIEVEMENTS

First prize in Speech Competition Organized by NSS Unit of Government Engineering College ,Kannur on 7th June 2021.



Second prize in Opendefi Hackathon Organized by OpenDefi DAO and Gitcoin, sponsored by Polygon on 9th June 2021.



Second prize in Code Debugging Organized by Cipher Mending at SNGIST Group of Institutions on 14th June 2021.



First, Second and Third prize in Debugging Competitions and Second prize in Coding Competition organized by College of Engineering Poonjar on 16th June 2021.



First prize in Hackathon organized by IEDC of RIT College on 19th May 2021. Second prize in Coding Competition "Alpha Geek" organized by IEEE branch of College of Engg. Aranmula on 20th May 2021. Won GreenNFT Hackathon organized by The state of NFT Environmental Impact reduction by GitCoin on 27th May 2021.

FUNDED RESEARCH

The project titled "Student Academic Performance Prediction in Virtual Learning Environment" done by M.Tech Student : Ms Anu Maria Babu and guided by Dr.Anju Pratap, has been selected for project funding under student scheme(PG) from KSCSTE during year 2021.

The project titled "BLOCK-FQ :A Blockchain based Food Quality Assurance System " done by B.Tech Students: Mammen Jacob Ambrayil, Prejith Presanna Kumar, Sandra Merin Sabu, Thomas P George and guided by Er.Gokulnath G, has been selected for project funding under student scheme(UG) from KSCSTE during year 2021.

Er.Vidya K.R(PI) Assistant Professor CSE of the department received an amount of 90,000/- for their research Project titled 'Development of an Advanced Image Forgery Detection System for Supporting Cyber Forensics in Kerala' during year 2021.

PATENTS

Dr.Jeyakrishnan V received an Indian patent grant for his innovative research work titled Intelligent Vision Camera Systems (IVCS) Integrated Smart Phone Architecture.

Dr. Reni K Cheriyan received an Indian patent grant for her innovative research work titled IRIS-A Noval Approach to Blind Friendly Kitchen.

Er. Nisha Joseph received Two Indian patent grants for her innovative research works titled Covid Tracker and Cryptography Based Financial Analytic Tool through Artificial Intelligence. Er. Nisha Joseph and Er.Divya Mohan received an Australia patent grant for their innovative research work titled The Computer Aided Diagnosis (CAD)

SOCIAL SERVICE ACTIVITIES

Certificate of appreciation received from the office of Directorate of Urban Affairs to the faculty team: Dr.Anju Pratap, Dr.Jubilant J Kizhakkethottam, Mr.Jacob PCherian and Ms Aneena Ann Alexander along with 6 students , for the development of a software societal importance titled 'Covid Mitram'. The project tackled the issue of data management including patient admissions, logistical management etc. in CFLTCs during Covid-19 crisis.

Mr Abey Saji Kurian (5th Sem student) received a certificate of appreciation from District Collector of Kottayam, for playing a pivotal role as Front End Developer in the Covid-19 IT Projects taken up by Disaster Management Authority, Kottayam.

Er.Nisha Joseph along with 5 students have developed a project titled "Covid Tracker", which automates the customer registrations, shopping details, travel map, temperature etc. , by avoiding manual entry during pandemics, thereby assuring social distancing and contactless entries. This project received a patent considering its innovation and social relevance.

Developed a website for Periyar Tiger Conservation Foundation, and appreciations received from Periyar Tiger reserve, Thekkady.

PUBLICATIONS

Dr. Jubilant J Kizhakkethottam, authored Deep learning based surgical flow recognition for Laparoscopic videos in 5th International Conference on Communication and Electronic Systems (ICCES 2020).

Dr. Santhosh P Mathew, co-authored Traffic Sign Classification Using Deep Neural Network in Presented at International Conference on Recent Advances in Intelligent Computational Systems (IEEE RAICS 2020) December 3 to 5, 2020.

Dr. Santhosh P Mathew, co-authored Fruit Classification using deep learning in Presented at the Springer International Conference on Electrical and Electronics Engineering (ICEEE 2021) January 2 to 3, 2021.

Dr.Anju Pratap co-authored Fresko Pisces: Fish Freshness Identification Using Deep Learning in Lecture Notes on Data Engineering and Communications Technologies, Springer, 2021

Dr.Anju co-authored Pratap Credit Card Fraud Detection Using Deep Learning in IEEE Recent Advances in Intelligent Computational Systems (RAICS), 2020.

Dr.Jayakrishnan V co-authored An Efficient Task Scheduling Using GWO-PSO Algorithm in a Cloud Computing Environment in Proceedings of International Conference on Intelligent Computing, Information and Control Systems pp 751-761, Springer conferences .

Er.Gokulnath G co-authored "BLOCK-FQ: A Blockchain Based Food Quality Assurance System" in 3rd Student National Symposium IR 4.0, Muscat .

Er.Justin Mathew co-authored Deep learning based surgical flow recognition for Laparoscopic videos in 5th International Conference on Communication and Electronics Systems (ICCES 2020) .

Er.Justin Mathew co-authored Comprehensive Home Security for Elderly People using IoT and Artificial Intelligence in 2020 IEEE International Conference for Innovation in Technology (INOCON)

Er.Nisha Joseph co-authored Patient Specific Brain Tumor Segmentation using Context Sensitive Feature Extraction in MR Images in International Journal of Computing and Digital Systems.

Er.Nisha Joseph co-authored The Role of Educational Technologies in CSR Perception of Tourism Education: The Comparative Analysis of E-Learning and M-Learning Tools as Moderators (ESCI) in Journal of Risk and Financial Management

PLACEMENTS

93 students out of 108 has received Campus Placement in premier companies with 161 offers.

80% of M.Tech students are recruited by various companies through campus placement..

INTERNATIONAL/NATIONAL/ STATE EVENTS



Department organized an International open source summit in association with FOSSASIA through open source club, during 28th June to 02nd July 2022.



Blockchain club in association with Hyperledger India chapter conducted a Panel discussion on "Women in Blockchain on shaping future economy" on 3rd May 2021.



NATIONAL DAY CELEBRATIONS

Celebrated National Technology Day conducting a webinar titled "Engineering application in defence technology" by Mr. Sameer Abdul Azeez, Group Director-Technology Management, DRDO on 29th May 2021.



Celebrated World Environment Day conducting a Competition Poster Design on "Energy efficient technologies for a green planet" by Saintgits Blockchain Club Members on 5th June 2021.

INDUSTRY INTERACTION

Faculty Internships /Certification

Er.Aneena Ann Alexander received 6 month Virtual Internships in the area of Blockchain from Nano Foundation UK from 24th May 2021.

Er. Jacob Cherian received 6 month Virtual Internships in the area of Data Science from Novum Insights UK from 17th June 2021.

Er.Ria Mathews received Amazon Web Services Training and its Certification.

Dr.Jubilant J Kizhakettottam has become and approved AICTE mentor for faculty inductees.

Er.Aneena Ann Alexander has become a certified Amazon Web Service (AWS) certified Developer

FACULTY ACHIEVEMENTS

Er.Justin Mathew and Er.Tibin Thomas where the experts in Python Programming Course conducted by CSR Programme, BIRDS, Bell Foods Group, Kochi from 15th and 30th May 2021.

Aneena Ann Alexander was an experts in the session Blockchain Design Patterns: Academia Meets Enterprise conducted by Hyperledger Global Forum on 8th June 2021.

Dr. Jubilant J K has given an experts session on Blockchain during 3rd Student National Symposium R4.0 SNSIR4.0 Oman on 26th and 27th May 2021.



Dr.Anju Pratap was in expert Judging Panel for the 10th CSI-InApp International Student Project Competition on 20th June 2021.

Dr. Jubilant J K, Tibin Thomas and Aneena Ann Alexander where the expert in Role of Blockchain Technology in India- An insight into public sector from 22nd and 26th May 2021.

AICTE SPONSORED STTP

Department was fortunate to get Short Term Training Programme grants (STTP applicant: Dr.Jubilant J Kizhakethottam) from the AICTE.

Two STTPs were organized by the Co-ordinator : 'BlockChain Fundamentals ' and 'BlockChain Applications '.

PROFESSIONAL SOCIETY ACTIVITIES

Cyber Security Club (CSC) of Saintgits College of Engineering in association with Computer Science Society (CSI), Saintgits Student Branch organized "CYBERGITZ" Capture The Flag Competition



CODE@Saintgits organized a workshop on Competitive Programming along with Coding Blocks, one of India's leading programming learning platforms, on 12th June 2021.



A paper presentation contest in association with IE(I) on 9th February 2021.

NIQR Saintgits Students Chapter and AI club Saintgits organized a national level online AI Quiz competition in association with NIQR Trivandrum branch on 27th February 2021.



FDPs & WORKSHOPS

Department in association with IETE Kochi Centre organized a National Level 4 days online FDP on "Emerging Research Trends in VLSI, MEMS and Signal Processing" through Google Meet from 10th to 13th August, 2020. Dr. Beena A O and Er. Roshni Oommen - FDP Coordinators, IETE Coordinator - Dr. Riboy Cheriyan. The resource persons for the sessions were - Dr. Youhan Sunny, Saintgits; Dr. Sreenidhi P.R., Amrita Vishwa Vidyapeetham; Dr. Lintu Rajan, NIT, Calicut; Dr. Krishnapriya S, Muthoot Institute of Technology and Science; Dr. Rahul Antony, Saintgits; Dr. Shajimon K John, Saintgits, Dr. Riboy Cheriyan, Saintgits; Er. Mithun C A, Research scholar, IIT Madras.

Department in association with ISTE Saintgits chapter organized an International Online FDP on the topic "Microsystems Design and Control Engineering" through Google Meet from 17th to 20th September, 2020. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator. The resource persons were - Dr. Anuj Abraham, Scientist at A*STAR - Agency for Science, Technology and Research, Singapore; Kalpana Senthamarai Kannan, SRF, Nano Electronics and Nanotechnology, University of Grenoble Alpes, TIMA Lab France; Dr. Ramesh K Gupta, Postdoctoral Researcher, Institute for Research in Electronics and Applied Physics (IREAP), University of Maryland, USA; Dr. Laxma Reddy Billa, Senior Process Engineer, Dynex Semiconductor Ltd, United Kingdom

The Internet of Things (IoT) club of Saintgits College of Engineering organized an online workshop on "Internet of Things" through Google Meet on 17th October, 2020 and 18th October, 2020. Er. Abraham K Thomas - IoT Coordinator. The resource persons for the workshop were Er. Chinn Mohanan, and Er. Nishanth P R, Saintgits.

Department organized an AICTE - Training and Learning (ATAL) Academy sponsored 5 days online FDP on the topic "Internet of Things for Wearable Devices" through Zoom for faculty members of AICTE approved institutions, Research / PG Scholars & Employees from related Industries from 11th January, 2021 to 15th January, 2021. Dr. Ansal K A - FDP Coordinator, Er. Abraham K Thomas - FDP Co-coordinator. The resource persons were Mr. Damodara M. S, Entuple Technologies; Dr. Sumit Kalra, IIT Jodhpur; Dr. Thushar Kanti Bera, NIT Durgapur; Er. Anuroop K. B, Adi Shankara Institute of Engineering and Technology, Kalady; Dr. Shajulin Benedict, IIIT Kottayam; Dr. Sreedevi K Menon, Amrita Vishwa Vidyapeetham; Dr. T Shanmuganatham, Pondicherry Central University; Er. Chinn Mohanan, Department of Electronics Engineering, Saintgits; Er. Nishanth P. R, Saintgits; Er. Jyothish Chandran G, Saintgits; Dr. Youhan Sunny, Saintgits; Dr. Muruganatham P, IIIT West Bengal

IETE Students' Forum in association with Department of Electronics Engineering conducted two Days Online Workshop on 'LaTeX' through Google Meet on 11th and 12th February, 2021. Dr. Riboy Cheriyan - IETE coordinator & Workshop Coordinator. The Resource person for the workshop was Dr. Sreekala K S, Saintgits.

EXTERNAL TALKS

A webinar was conducted on the topic "Opportunities for Instrumentation Engineering Graduates - How to start and Where?" by Er. Sreeraj P V, Nagman Electronics, Chennai through Google Meet on 4th July, 2020. Total 325 participants attended the webinar. The webinar coordinator was Dr. Rahul Antony.

A webinar was conducted on the topic "Importance of Intellectual Property Rights - A student Perspective" by Dr. Sreedha P, KSCSTE Kerala through Google Meet on 11th July, 2020. Total 325 participants attended the webinar. The webinar coordinator was Dr. Rahul Antony.

Department of ECE, Saintgits College of Engineering in association with ASGEC conducted a webinar on the topic "Embedded Systems" by Mr. Abhilash Surendran, Senior Hardware Engineer, VVDN Technologies Pvt. Ltd., Kochi on 10th October, 2020 (7.00pm to 8.00pm) through Google Meet for the final year and pre final year students of ECE and AEI branches. Er. Dhanusha P B - ASGEC in-charge

MOU WITH INDUSTRIES & UNIVERSITIES / INSTITUTIONS

MoU between Entuple Technologies (P) Ltd & Saintgits College of Engineering signed on 19th April, 2017 for 5 years.

MoU between Digital Core Technologies Pvt. Ltd & Saintgits College of Engineering for Industry Academy Collaboration Program signed on 03rd May, 2019 for 5 years.

PROFESSIONAL SOCIETY ACTIVITIES

IEI students' chapter

(Division in-charge ECE & RB - Er. Abraham K Thomas, AEI - Er. Agitha M S).

AEI division conducted a Poster Design Competition on 7th August, 2020.

AEI division conducted a webinar on the topic "Robotics: From fiction to science" through Google Meet for interested students of Saintgits on 19th September, 2020. The resource person was Er. Harinarayanan Nampoothiri M G, Saintgits.

AEI division conducted an Essay Competition on 14th October, 2020 (World Standards Day).

AEI division conducted a Paper Presentation Competition on 15th January, 2021.

AEI division conducted a Project Presentation Competition on 1st February, 2021.

R&A division and Department of Physics conducted the 13th webinar on the topic "A Glimpse on 2020 Physics Nobel Prize" by Dr. Noble P Abraham, Assistant Professor, Department of Physics, Mar Thoma College, Tiruvalla through Google Meet on 19th October, 2020. Dr. Suresh Babu M - Department of Physics

Department in association with the Institution of Engineers (India) (IE (I)) Saintgits Students' Chapter conducted the 5th webinar on the topic "Examination Reforms Policy" through Google Meet for the interested students and faculty members on 25th August, 2020. The resource person for the webinar was Dr. Riboy Cheriyan, HOD ECE & RA, Saintgits.

Electronics Division organized an Intra-departmental event "Technical JAM" for the students on 21st October, 2020 (as part of World Standards Day week activities).

Electronics Division conducted an Intra-departmental Project Competition and Paper Presentation Competition on 25th and 27th January, 2021.

IETE

(Dr. Riboy Cheriyan - IETE Coordinator)

IETE Kochi Centre and IETE Students' Forum (ISF), Saintgits jointly conducted "Walk with scholar program - GYANIKKOP-PAM" on 9th December, 2020 from 5.30pm to 6.30pm through the online platform ZOOM. The scholar for the program was Sri. P Venugopalan, Director DRDL (Retired) Hyderabad. Total number of participants attended were 235.

The IETE Students' Forum (ISF), Saintgits College of Engineering conducted a webinar on the topic "Life's Little Tricks: Getting you prepared for 2024" by Mr. Joel Abraham (2016-2020 ECE batch) in connection with the Online Student Induction Programme (SIP 10) for B. Tech first year students (2020-2024 Batch) through the online platform ZOOM on 21st November, 2020. Total number of participants attended were 120. Dr. Beena A O - Webinar Coordinator

IETE Students' Forum in association with Department of Electronics Engineering, Saintgits College of Engineering (Autonomous), Kottayam conducted Two Days Online Workshop on 'LaTeX' for the M.Tech students and Ph.D. scholars through Google Meet on 11th and 12th February, 2021.

ISTE

(Coordinator - Dr. Ansal K A)

Department of Electronics Engineering in association with ISTE, Saintgits College of Engineering conducted an online alumni expert talk by Er. Gokul Sali (2015-19 ECE pass out batch), Test Engineer, Tessolve Semiconductors, Bangalore on the topic "Introduction to Automatic Test Equipment - A Design Flow" on 30th May, 2021.

The department in association with ISTE Saintgits chapter organized a national webinar on the topic "Metamaterial Based Antenna Design & Beam Forming Network" by Er. Arshad Karimbu Vallappil, Lecturer/ Research Fellow in Department of Electrical Engineering, Islamic University of Madinah, Madinah, Kingdom of Saudi Arabia through Google Meet for the students, research scholars and faculty members from all over the world on 7th October, 2020. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.

The Department in association with ISTE Saintgits chapter organized a national webinar on the topic "Substrate Integrated Waveguide Antennas" by Dr. Dibin Mary George, SRF CERMA LAB, CUSAT, Cochin through Google Meet for all students, research scholars and faculty members from all over the world on 31st October, 2020.



Department in association with ISTE Saintgits chapter organized a national webinar on the topic "Transparent Thin Film Transistors for AMOLED" by Dr. Akkili Viswanath Gowd, DST SRF, IIT Dhanbad (ISM Dhanbad) through Google Meet for the students, research scholars and faculty members from all over the world on 12th September, 2020.



Department in association with ISTE Saintgits chapter organized a national webinar on the topic "Data Science Demystified" by Dr. Anoop V. S., Senior Scientist & Head (Training), Kerala Blockchain Academy, IIITM-K Building, Technopark Campus, Thiruvananthapuram, Kerala through Google Meet for the Students, research scholars and faculty members from all over India on 21st August, 2020. 70 Participants (21 External Participants) attended the webinar. He also agreed to take a session on block chain later.



RESEARCH AND DEVELOPMENT

PROJECTS SANCTIONED FOR FUNDING

CUSAT CATDM (Center for Advanced Technologies in Disaster Management) - Geojit (Funding Agency) (Student Project) – 1 project - SIWAR, A Robust Tele-operated Robot for Hospital isolation Wards - Er. Harinarayanan Nampoothiri M G (Principal Investigator), Anjana B Nair (2017-21 AEI), Boaz Babu George (2019-21 MTech RA), Shebin Reji (2016-20 AEI), and Georgin James (2016-20 AEI) (Student Members). An amount of Rs 27,000/- was sanctioned on 14th September, 2020 (Project Period – 1 year). Completed the project practically but not settled the fund.

AICTE - MODROB - Modernisation and Removal of Obsolescence - MODROB (Lab to be funded: VLSI Lab) - "Modernisation of VLSI Lab: Software Defined Radio (SDR) - Open multimedia application platform" - Dr. Riboy Cheriyan (Coordinator) – An amount of Rs 7,35,294/- was sanctioned on 20th July, 2020 (Project Period – 2 years) (Release of a sum of Rs.5,88,235/- as 1st instalment..

ONGOING FUNDED PROJECTS

Mud and manhole cleaning robot, Er. Harinarayanan Nampoothiri M G (PI), Rs.1,40,000/-funded by CERD (Faculty Research Seed Money)

Power generation using Gravitational power plants, Er. Vinayakumar B (PI), Rs.1,40,000/- funded by CERD (Faculty Research Seed Money)

Design and development of a Temperature Controlled Micro Chamber with precise monitoring and control for Lab –on chip applications using MEMS Dr. Rahul Antony (PI), Er. Vinu Koshy Abraham (Co-PI), Rs.1,80,000/- funded by CERD

INNOVATIONS UNLOCKED KERALA STUDENT INNOVATORS MEET

The team consisting of Er. Jyothish Chandran G, Er. Nishanth P R, Mr. Hari Prasad B of S2 RA batch (2019-23), Mr. Gokul M Saji of S4 EC batch (2018-22) participated in the Virtual Showcase (Exhibition) for the "Innovations Unlocked Kerala Student Innovators Meet" under Top 20 Category with the product "Automatic Hand Sanitizer / Soap Dispenser with Voice Prompt" held on 25th July, 2020

ADD-ON COURSES

Add-on Course on "Introduction to Image Processing using MATLAB and IoT Product Development from the scratch" was conducted from 1st to 3rd February 2021 for 2018-22 batch ECE students. Er. Roshni Oommen (Add-on coordinator). Er. Nishanth P R, Er. Chinn Mohanan, Er. Jyothish Chandran G (Resource Persons)



Add-on Course on "Python Programming" was conducted from 8th to 12th February 2021 for 2019-23 ECE students. Er. Roshni Oommen (Add-on coordinator). Er. Nithin Prince, Er. Justin Mathew, Er. Veena Kumar and Er. Aneena Ann of CSE dept. (Resource Persons)

Add-on Course on "Electronics, Design and Automation" conducted for 2019-23 AEI students from 19th to 23rd February 2021. Er. Anish Thomas, Er. Rizwana Akbar (Add-on coordinators). Er. Anish Thomas, Er. Harinarayanan N M G (Resource Persons)

MOU WITH INDUSTRIES & UNIVERSITIES / INSTITUTIONS

MoU between Entuple Technologies (P) Ltd & Saintgits College of Engineering signed on 19th April, 2017 for 5 years.

MoU between Digital Core Technologies Pvt. Ltd & Saintgits College of Engineering for Industry Academy Collaboration Program signed on 03rd May, 2019 for 5 years.

INDUSTRY INTERNSHIPS

Students did internships at various industries and organizations like Industrus Tech, BSNL RTTC Tvm, Cougar Planet, Pantech, Enfono Technologies, Virtual World, Pixpil Design, Unschool, Jankalyan Nagpur, Pacelab, IEEE Mumbai, Inker Robotics

PLACEMENT

2017-21 Batch -UG

Company	Count
UST Global	7
TCS	5
Infosys	4
Quest Global	6
Aspire NXT	3
Planetspark	1
Gadgeon	1
6D Technologies	2

2016-20 Batch -UG

Company	Count
Infosys	5
DXC Technologies	5
Experion Technologies	2
IBS	1
Amazon	4
TCS	1
Hexaware Technologies	1
CTS	3
Digital Core Technologies	1

2017-19 Batch -PG

Company	Count
UST Global	1
Federal Bank	1

FACULTY PUBLICATIONS

In Journals: 11

In Conference Proceedings: 11

In Book Chapter: 01

Accepted for Publication: 10

PATENTS

Dr. Ansal K A, Development of IOT Based Part Inspection System, Application Number: 202041016738, Filed Date: 18.04.2020, Publication Date: 05.06.2020, Indian Patent

Dr. Ansal K A, Genomic Processing Embedded System for Dataset Generation and Deep Analysis, Application Number: 2020101618, Filed date: 03.08.2020, Accepted Date: 26.08.2020, Granted published Date: 10.09.2020 (paid to date: 03.08.2022), International (Australian IPR)

Dr. Ansal K A, Low Radiation Wearable Patch Antenna for Embedded Skin Patch Application, Application Number: 2020102000, Filed date: 26.08.2020, Accepted Date: 16.09.2020, Granted published Date: 01.10.2020 (paid to date: 26.08.2022), International (Australian IPR)

Dr. Binu K Mathew, Dr. Ansal K. A, Er. Anu Raj, Er. Anish M. George, Er. Maheswary Sreenath, Low-Cost Low Power Semi-Automatic Water Level Controller, Application Number: 202041038481, Filed date: 07.09.2020, Publication Date: 25.09.2020, Indian Patent

Dr. Riboy Cheriyan, Joel, Abraham (2016-20 ECE), Sreesankar E (2016-20 ECE), Sandeep Narayanan (2016-20 ECE), Reuben George Mathai (2016-20 ECE), Machine Learning Based Dynamic Antenna System to Mitigate Effects of Environmental Attenuation in Wireless Communication, Application Number: 202041036948 A, Filed date: 27.08.2020, Publication Date: 11.09.2020, Indian Patent

Dr. Binu K Mathew, Solid State Switch based Quiz Buzzer, Application Number: 202041050177, Filed Date: 18.11.2020, Publication date: 27.11.2020, Indian Patent

Dr. Binu K Mathew, Gladwin Yohan Mathew (2018-22 AEI), Don John Daniel (2018 - 22 AEI), Alan V Eldho (2018 - 22 AEI), An IoT based E-switch for elderly people, Application Number: 202041056651, Filed Date: 28.12.2020, Publication date: 01.01.2021, Indian Patent

Dr. Youhan Sunny, Er. Binson V A, Er. Vinayakumar B, Er. Jyothi Krishnan M, Er. Harinarayanan Nampoothiri M G, Er. Anish Thomas, Ultrasound based measurement device for Latex extract from Rubber trees, to estimate instantaneous DRC, Application Number: 202041052999, Filed date: 04.12.2020, Publication Date: 11.12.2020, Indian Patent

INSTITUTE-INSTITUTE PROGRAMMES

Dr. Shajimon K John was the resource Person for the Mosharaka Remote Seminar on "Making agriculture smarter – the role of IoT" conducted by Mosharaka Remote Seminars on 30th November, 2020.

Dr. Riboy Cheriyan was the resource Person for the online expert talk on the topic "FPGA vs CPLD" conducted by Department of ECE, Viswajyothi College of Engineering and Technology, Vazhakulam on 28th September, 2020.

Faculty Internship/Fellowship: As part of the sabbatical programme, Dr. Pradeep C joined Smart City Research Center, IIIT Hyderabad as visiting researcher (Duration - 1 year)

Dr. Pradeep C was the Resource Person for the AICTE-ISTE sponsored Workshop on Internet of Things (IoT) using Arduino and Raspberry Pi - Phase I (Online) on the topic "Artificial Intelligence - Powered IoT" conducted by GRG Polytechnic College on 11th February, 2021.

Dr. Pradeep C was the Resource Person for the "FDP on trends and Challenges in the design and Implementation of Planar antennas" conducted by Department of ECM, Sreenidhi Institute of Science and Technology (An autonomous Institution), Hyderabad from 1st September, 2020 to 5th September, 2020.

Dr. Pradeep C was the Resource Person for the "First International Conference on Advancements in Research and development" conducted by RSP conference Hub, International research journal on Advanced science hub on 29th and 30th August, 2020.

Dr. Beena A O was the Resource Person for the webinar titled "Current and Future Trends in Wireless Communication Technologies" conducted by Department of ECE, University College of Engineering, Karyavattom on 2nd July, 2020.

Er. Nishanth P R was the Resource Person for the webinar titled "Introduction to Internet of Things" conducted by Department of Computer Science in association with IQAC, Bishop Chulaparambil Memorial College, Kottayam on 28th October, 2020.

STUDENT ACHIEVEMENTS

Archana M.P of 2017-21 batch was selected as Student ambassador for IEEE PES YP Entrepreneurial activities, mentor of IEEE for sustainable future summit, and Women in Power Representatives of IEEE PES Kerala Section

8 students of 2017-21 B.Tech batch passed with Honors degree

Four students of final year batch secured first prize in the Online Project Expo conducted by SNGIST Kadayiruppu

Sharon Paul of final year B.Tech batch got admission for Masters in Electrical Engineering at Stevens Institute of Technology, USA

Geethika S of final year B.Tech batch got admission for Biomedical Engineering at Amrita University, India

Arjun H Pillai of final year B.Tech batch got admission for MSc Business Analytics at Coventry University, UK

Rhea Ann Thomas of final year B.Tech batch got admission for MSc Renewable energy system technology at University of Loughborough, UK

Manasi S of final year B.Tech batch got admission for MSc Environmental Management at Brunel University, UK

STUDENT PULICATIONS

Akash KV, Sharon K Varughese, and Sheba Merin Jacob published paper titled "AI based recognition system for visually and audibly challenged in IEEE International Conference on Smart Electronics and Communications

Anjana J Nair, Archana A Abraham, and Swathy M Devan published paper titled "Gesture activated robotic glove and robotic arm with automatic alert system and automation" in IEEE International Conference on Inventive Research in Computing Applications

Christy Abraham, Jewel Jeemon George, and Vishnu K S published paper titled "Design and Prototype Development of a self balancing mechanism using gyroscope" in IEEE International Conference on Smart Systems and Inventive Technology

Megha Parameswaran, and Nithin Mathew published paper titled "Design and Implementation of Automatic Guided Vehicle for Hospital Application" in IEEE International Conference on Communication and Electronics Systems

Megha A published paper titled "Analysis of harmonic contamination in Electrical grid due to electric vehicle charging" in International Conference on Smart Systems and Inventive Technology

Sachu Sebastian published paper titled "Mitigation and Improvement of power quality using shunt series switched grid tied inverter" in International Conference on Power Electronics and Renewable Energy Applications

Tinu Scaria published paper titled "Energy Demand Modeling and Behavioural analysis of Electric Vehicle for Grid Management Studies" in International Conference on Power Electronics and Renewable Energy Applications

INTERNSHIPS

Two students of final year B.Tech batch got selected for MG Motors Nurture Program with stipend of Rs. 15,000/- per month.

Five students of final year B.Tech batch got selected for internship at NIT Trichy

Five students of final year B.Tech batch got selected for internship at Siemens India Ltd

Five students of final year B.Tech batch got selected or internship at NIT Andhra Pradesh

One PG student of 2019-21 batch got selected for internship at Wahni Green Technologies

One PG student of 2020-22 batch got selected for internship at TATA Elxsi

Two students of 2018-22 B.Tech batch undergone online internship on Electric Vehicles at KaaShiv Infotec.

FACULTY ACHIEVEMENTS

Er. Jineeth Joseph was awarded Ph.D degree from NIT Calicut

Er. Ancy Sara Varghese and Er. Abraham George became senior IEEE members

Er. Jisha James got admission for Ph.D (Part time) at Christ University, Bangalore.

Er. Ancy Sara Varghese got admission for Ph.D (Part time) at CUSAT, Pulinkunnu

Er. Polly Thomas was the reviewer of IEEE Access, IEEE Transactions on Power Systems

Er. Jineeth Joseph was the reviewer of IET Generation, Transmission and Distribution, Journal of Electromagnetic Waves and Applications (Taylor & Francis)

ASSOCIATION ACTIVITIES

IEEE Student branch conducted technical quiz on 2nd October 2020

IEEE Power & Energy Society conducted webinar on "Grid Friendly photovoltaic systems" on 8th August 2020

IEEE Power & Energy Society conducted webinar on "Ethical Hacking and Cyber Security-Hunting Hacker on 15th May 2021

IEEE WIE conducted webinar on 6 Days 6 Hours- A billionaire by Mr. Akhilraj Dhanarajan, CEO of Flyer Tech Automotive Operations Pvt Ltd, Bangalore

IEEE WIE conducted Anokhi and Nail Art on 2nd October 2020

The technical event "DYUTHI" organized and conducted by PHASE every year provided an excellent platform for the upcoming engineers to showcase their talents and technical know-how

IE (I) conducted webinar on DC Chopper for large input voltage fluctuations in solar PV based applications by Dr. Mahendran N, Professor, SAINTGITS College

IE(I) conducted webinar on Futuristic trends in wind energy conversion system by Dr. R Raja Singh, Associate Professor, VIT Vellore

IE(I) conducted quiz competition, lecture competition, online technical film show/poster competition, project exhibition competition, and aptitude test

IE(I) conducted webinar on A Glimpse of 2020 Nobel Prize in Chemistry by Dr. Ginny Antony, Assistant Professor, Department of Plant Sciences, Central University of Kerala

IEEE IAS & IEEE SBC PES student branch conducted an online event Poster designing using Adobe Photoshop

IEEE IAS conducted poster designing competition

FAREWELL



Farewell to 2017-21 batch students was conducted on 15th July 2021 at the Mini Auditorium

RESEARCH & DEVELOPMENT

Rojin Alex Rajan of 2016-20 batch under the guidance of Er. Polly Thomas got funding of Rs. 36182 for the project titled "Lo-Ra & Wi-Fi Based Synchronous Energy Metering, Internal Fault revelation and theft detection with Artificial Intelligence

Dr. Mahendran N was granted patent by IP Australia for the innovation Energy Distribution and Loss Management system for smart cities using Distributed Ledger Based Block Chain Technology

15 B.Tech projects submitted for patent filing

The project "IOT Driven Smart Pisciculture Monitoring and Control System" was collaborated with Pynadath Fisheries Ltd, Thrissur done by Sanju Joseph Abraham, Siddharth S, Vaishnav Nair S, and Farah Fathima Raheem of 2017-21 B.Tech

ADD ON COURSES

Course on "Introduction to Python Programming" conducted by Er. Gokulnath & team from Computer Science Engineering Department for the third semester 2019-23 batch students

Course on "Introduction to Matlab" conducted by Er. Ancy Sara Varghese & team for the sixth semester 2018-22 batch students

Course on "Introduction to LabVIEW" conducted by Er. Harinarayanan Nampoothiri, Dr. Rahul Antony and Er. Jyothi Krishnan M from Electronics Engineering Department for eighth semester 2017-21 batch students

EXTERNAL TALKS

An expert talk on Advanced analysis of Kerala Power System by Mr. Manmohan, Assistant Engineer, Generation Division, Sabarigiri Hydro Electric Project, Moozhayar was conducted on 28th November 2020 in association with industry-institute interaction cell of EEE

Center for International Relationship Cell of Department of EEE conducted alumni talk on the topic "Study Abroad Opportunities" by Mr. Mathews P Venattu (National University of Ireland), Ms Merin Rose Varghese (Wollongong, Australia), Ms. Geethu Anna Jacob (Lambton College, Canada), Mr. Jyothish P Kumar (Deggendorf University, Germany), Mr. Geo Mathew (Niagra College, Canada), and Mr. Athul R (Conestoga University, Canada)

AICTE Sponsored STTP

Introduction to Electric Vehicles: Opportunities and challenges- Case Study was conducted during August 2020

Grid Integration Techniques for Electric Vehicles: Challenges, Opportunities, G2V & V2G applications was conducted during September 2020

Design of Drive System and Charging station for Electric Vehicle Applications was conducted during October 2020

INDUSTRIAL CONSULTANCY

MOU signed with Bell Foods Group (HT Foods Pvt Ltd), Cochin during World Food day as part of Industry collaboration by Dept of Food Technology. Bell Foods Exim Private Limited is an ISO 2200-2005 Certified Company registered and incorporated in India as per the Companies Act 1956 with its head office and plant located at Thoppumpady, Ernakulam, Kerala, India.

ACADEMIC TIE UP

Signed MOU with National Institute of Plant Science Technology, MG University as part of Academic collaboration by Dept of Food Technology. MG University has Recently Started Food Science and Quality Control Programme at School of Food Science and Technology.

APPERT LECTURE SERIES

Hurdle Technology in Food Processing' by Prof. Mohammad Shafur Rahman, Professor, Department of Food Science and Nutrition, SQU, Sultanate of Oman.

'Importance of Shelf Life Study in Food Products' by Dr. Baby K. C, Vice President CVJ, Creative Centre, Synthite Industries Pvt. Ltd, Ernakulam, Kerala.

'Dairy Products Food safety in line with World Health Organization' by A. Subramani, Corporate Manager QA, Hindustan Coca-Cola Beverages Private limited, Bangalore- Karnataka.

'Emerging Trends of Macro Algae in Food Science' by Dr. Renu Geetha Bai, Research Scientist, School of Natural Sciences & Health, Tallinn University, Tallinn, Estonia.



New Product Development and skills needed for New Product Development' by Mr. Suresh Chander, R&D Head - Product Development & Applications, Arboreal Bio-innovations Pvt. Ltd. - A Stevia Manufacturing Company, Lucknow, Uttar Pradesh.

'Central Farm Bill and It's Impact On Food Processing Sector' by Prof. Dr. P Sudheer Babu, Dean, College of Dairy Science and Technology, Kerala Veterinary and Animal Sciences University, Mannuthy, Thrissur.



ACHIEVEMENTS

Sherin Tom of semester 7 got first place in Sustainability Packathon conducted by Mars Inc.



Ashlin Grace Alex, semester 5 secured first prize in World Food day contest "ECHAPTER" Organized by SAINTGITS COLLEGE OF ENGINEERING.

Irin Elsa Moncy achieved a scholarship from WITI (Women in Technology in India).

Irin Elsa Moncy secured first prize in an online quiz competition "Think Sharp to Win" organized by IEL.

TRAININGS

Diya Sarah Paul of semester 7 completed Food Safety Supervisor Level 1 Manufacturing Training from FRCC.

Sneha Karayil Santhosh, Sreelekshmi B, Ann Maria Johny, Reeba Jacob, Amalu Sara Sabu And Liliya Shaju of semester 7 completed Food Safety Supervisor Level 2 Manufacturing from FRCC.

Gilna Geevar, Megharaj Jayraj, Rajendhu, R S Akhila Rajan, Neha Haris And Gowripriya Madhusoodhanan of semester 7 completed QMS And QA For Food Industry from FRCC

Sayana Latheef of semester 7 completed Entrepreneurship Development Programme by MSME-Technology And Development Centre.

Varsha Arialal of semester 7 completed Laboratory Testing For Quality Assurance & Kaizen For Food Industry by FRCC.

PUBLICATIONS

Girilal M. Cellulose Nanostructures and Its Application as Effective Food Packaging Systems in Nanotechnology Enhanced Food Packaging. Nanotechnology Enhanced Food Packaging, WILEY-VCH GmbH, 2021.

Mohammad Shafur Rahman, Sithara Suresh, Nasser Al-Habsi, Mohamed Al-Khusaibi, Zahir Al-Attabi & Lyutha Al-Subhi, "Stability of vitamin C in broccoli based on the chemical reaction kinetics, micro-region state diagram, and empirical correlations", International Journal of Food Properties, 24:1, 2021, 1559 1573, DOI: 10.1080/10942912.2021.1977658.

Jobil J. Arackal, S. Parameshwari, "Identification of antioxidant activity and shelf life assay of avocado fruit pulp incorporated chapattis", Materials Today: Proceedings, Volume 45, Part 2, 2021, 2589-2594, <https://doi.org/10.1016/j.matpr.2020.11.337>.

Jobil J Arackal, S Parameshwari, "A detailed evaluation of fatty acid profile and micronutrient analysis of chapattis incorporated with avocado fruit pulp", Materials Today: Proceedings, Volume 45, Part 2, 2021, 3268-3273, <https://doi.org/10.1016/j.matpr.2020.12.468>.

INTERNSHIPS

Sreyas Sreekumar, Pooja Suresh, Liliya Shaju, Lidiya Philip, Joyal Jose, Jesny Sosamma Varghese, Arooja Joseph of semester 7: Nirapara 10 days. Amalu Sara Sabu, Sayana Latheef, Sona Kurian, Rose Mary Saju, and Sneha Karayil Santhosh of semester 7: Mangala sea foods, Aroor- 10 days

Athira Sunny, Gowripriya Madhusoodhanan, Megha Jayraj, Neha Haris Rajendhu Rose Mary Saju R S Akhila Rajan and Sayana Latheef of semester 7: Milma Ambalathara Dairy plant, Trivandrum and Milma Tripunithara- 5 days

Kaushik Padmakumar, K. Karthik, Ajay K Joseph, Rojin Abraham Babu and Gouri B Nair of semester 7: HT Foods, Kakkannad-10 days

Avanthika. V and Gouri B Nair of semester 7: Royal Malabar Foods- 6 days

Fathima Nahaz, Joma Varghese, Namitha Anilkumar, Nikhila Merin Kurian of semester 8: Co-operative Tea Factory, Thankamany -1week; and Kisco Dairy, Pala.- 4 days

Alina Mary Kuruvila of semester 7: Synthite Industries Pvt Ltd, Kolenchery, Kerala- 5days

Johan B Zachariah of semester 7: Pavithram sesame oil Industry- 10 days

Merin Mathew, Raima Jenny, Riya Ann Elias and Nasarin T.S of semester 7: Smart Foods- 7 days

Sreehari B of semester 7: Fresh to Kochi- 10 days

Janet Sam Mathai, Athira Sabu Mathew, Sherin K Thomas, Rebecca Mary Rojoy, Rajeswari MS and Irin Elsa Moncy of semester 3: Milma Thiruvananthapuram- 2 days

Anand John, Teles Tony, Mathews George, semester 3: Milma Ernakulam- 1 day

Saniya Vipin, Khadeeja TS, Nisha G Poothicote, Hannah Mary Thomas, Ashitha K S, semester 3: Milma Ernakulam- 5 days

Adwetha Rajesh, semester 3: Milma Alappuzha-4 days

Anjana B, Samitha P Nair, Dena Rose George, Ayina Kalam, Romi Mariam Mathew, semester 3: Pazhangadi Oil Industries, Aluva- 3 days

Anugraha Johnson, Dona Merin PJ, Simone Eliz Mammen, Kezia Susan Alex, semester 3: HT Foods, Kakkannad- 5 days

Amarthya Anna Biju, Aleena Viju, Richa Anna Sunil, Vismaya Vinod, Safia Shamsudeen, semester 3: Ojes Kottayam- 3 days

Nandha G Nair, semester 3: Symega Food Ingredients Ltd, Kolenchery- 3 days

Rijosh Joe Mathew, George G Robert, Tarun K Thomas, Rahul R Nath, Saheersha K N, semester 3: River Valley Thiruvananthapuram- 2 days

Adarsh V Raju, Haniel Boby, Abhishek Krishna, Ashish Paul James, Pradul John Philip, Siya Siby, Sony Elizabeth Manoj, Anusha Sasidharan, Najiya Nazreen, V Lekhashri, Amisha Elsa Thomas of semester 5: Unipulp Agro Industries- 5 days

Theertha Jayan and Amala Sanjeev of Semester 5: Milma dairy Ambalathara- 3 days

Madhurima Chandran, Minttu Raj, Navami S Kumar and Riya K Biju of semester 5: Ammar Foods, Kanhangad Kasaragod- 6 days

Ambily Jolly, Emima Elsa Kurian, Hiba M H, Aleena Biju, Haritha. K.V, Abitha Baby, Parvathy. S, Amala Sanjeev, Reshma Rachel Varghese, Kesiya S Anymon, Sneha Mariam John and Neha J Dinesh of Semester 5: Foster Hot Bread Private Limited, Kinfra Foodpark, Kozhikode- 5days

Lakshmi Santhosh, Vaishnavi S, Bhagyalekshmi K of semester 5: Nirapara - 4 days

Joseph Skariah, Ganga Pradeep, Geethu Elizabeth George, Linta Suni: Nature Pure Extracts-7 days

Nandu V.M, Ashish Paul James, Abhishek A, Mohammed Shafin Sha, Abdul Ahadh, Abhijith S, Althaf A, Gokul Raj, Binu Biju of semester 5: HT.Foods, Ernakulam-4 days

DEPARTMENT OF MECHANICAL ENGINEERING

Awards and Recognitions

- Dr. Rittin Abraham Kurian received Best paper presentation award from National Institutes of Technology (NIT), Trichy, India, on 11th March 2021 at the International Conference on Novel Engineering Materials for Biomedical, Energy, Environment, Sensing, and other Applications -2021 (ICON-BEES'21).
- Er. Philip Jacob Perakathu was selected as the "Star Volunteer July 2020" by PMI Kerala chapter



Faulty Research Publications / Conference

- Dr. Tijo D, Assistant Professor, published a paper titled "Deposition of TiC-Cu composite coating on AISI 304 stainless steel by EDC process using powder compact tool electrode" in (SCI indexed) Indian Journal of Engineering & Materials Sciences.
- Dr. Rittin Abraham Kurien, Assistant Professor, published a paper titled "Worn Surface Morphological Characterization of NaOH Treated Chopped Abaca Fiber Reinforced Epoxy Composites" in (Scopus indexed) Journal of Bio- and Tribo-Corrosion
- Dr. Rittin Abraham Kurien, Assistant Professor, published a paper titled "Tribological and Mechanical Performance Characteristics of Epoxy-Resin Composites Reinforced with Multi-Walled Carbon Nanotubes for Sustainable Applications" in (Scopus indexed) Journal of Green Engineering
- Professor Anil Kumar G presented and published a paper titled "Preliminary Experimental Investigations on an ultra-low head Hydro turbine energised by Gravitational Water Vortex Flow" in the International Conference on Energy and Environment- ICEE 2021.
- Dr. Rittin Abraham Kurien, Assistant Professor, published a paper titled "Green composite materials for green technology in the automotive industry" in (Scopus indexed) IOP: Materials Science and Engineering

Sponsored Research

Dr. Chacko Preno Koshy and Dr. Sreejith C C got a grant of Rs. 200000/- from Kerala Technological University for the conduct of KTU-FDP "Nanofluidics: Theory, Experimentation, Computation and Applications"

Outside World Interaction

- Er. Ajith Kuriakose Mani, went as a resource person at Mathematical Institute of the // Serbian Academy of Sciences and Arts, Belgrade, Serbia on 27/04/2021
- Er. Philip Jacob Perakathu, was selected as an Expert member of the Board of studies of PMI Kerala Chapter, Thiruvananthapuram.

Patents

- Er. Basil George Thomas, Er. Arjun Venugopal, Er. Mathews Joseph and Dr. Jacob Thottathil Varghese were granted an Indian patent for the invention "CRYOGENIC INCORPORATED MODIFIED AUTOMOBILE AIR CONDITIONING SYSTEM" by the IPI on 24th March 2021
- Er. Arjun Venugopal, Er. Basil George Thomas, Er. Ajith K Mani and Dr. Jacob Thottathil Varghese were granted an Australian patent for the invention "A SYSTEM FOR AUTOMATIC CONTACTLESS OPENING OF ENTRANCE AND A METHOD THEREOF" by the Commissioner of patents, Australian Government, on 28th April 2021.
- Dr. Jacob Thottathil Varghese and Prof. Sajjan Thomas were granted an Australian patent for the invention "METHOD FOR SCIENTIFIC ANALYSES OF SUSTAINABLE ARCHITECTURE" by the Commissioner of patents, Australian Government, on 28th April 2021.

SAE activities

- Team Striderz Racing of Saintgits College of Engineering, Pathamuttom Kottayam designed and manufactured an All-Terrain Vehicle (ATV) and completed SAE BAJA 2021 Competition held from at Chitkara University
- Team Madbolt Formula Racing of Saintgits College of Engineering participated in Formula Bharat 2021 competition.



IIW Activities

- Organized a webinar on "Building the TRUST against the RUST: Materials degradation and it's control" Guest Speaker: Dr. S.B. Arya, Assistant Professor, Dept. of Metallurgical & Materials Engineering, NITK – Surathkal in June 2020.
- The Indian Institute of Welding (IIW) Students Chapter of Saintgits started a webinar series on "SCIENCE, TECHNOLOGY AND PRACTICE OF WELDING". The first webinar of the series is conducted on Saturday, June 19, 2021 from 3 PM to 4 PMIST. Speaker: Dr. KAMLESH KUMAR, Assistant Professor, Madanapalle Institute of Technology & Science, Andhra Pradesh Topic: Recent Advancements in TIG Welding Process

IE(I) Activities

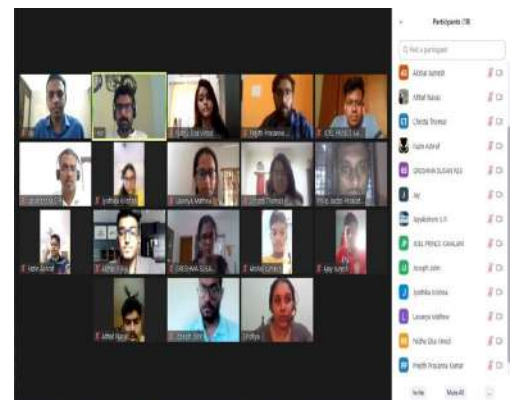
- Conducted a Webinar on the topic - Liberation Through Education - A Gateway to Success Through Engineering on 3/08/2020
- Conducted a Webinar on the topic "Protecting the planet with standards" on 13/10/2020

PMI Activities

- Expert talk on *Introduction on Project Management* by Mr. Lee R. Lambert, A Founder of PMP, PMI Fellow, Powell, Ohio, United States (CEO, Lambert Consulting Inc., USA) for students of Saintgits Group of Institutions



- One-on-one mentoring session with student members from B.Tech (CSE), and B.Tech (ME) of PMI Kerala Academic Forum of Saintgits College of Engineering on 31st January 2021



DEPARTMENT OF COMPUTER APPLICATIONS

WEBINARS

The Department of Computer Applications in its sixth webinar, invited Er.Binish Moulana, Head, Cloud Solutions and Innovation – Finastra, Technopark, Thiruvananthapuram. The topic of the webinar was 'TECHSPARKS – Emerging Technology Trends in the New Normal'. It was delivered in Google Meet on Thursday, July 02, 2020 from 11:00 AM to 12:00 PM.

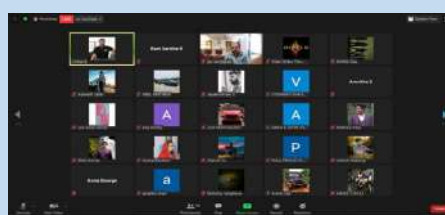


The Department of Computer Application with the FOSS cell of the College, collaborated with C-DAC, Hyderabad conducted its seventh webinar on "Tools for Cyber Security" on 4th July 2020 from 11:15 am to 12:30 pm using Cisco Webex. Ch. A S Murthy (Associate Director, C-DAC Hyderabad, Coordinator-Information Security Education and Awareness (ISEA) Project) was the guest speaker.

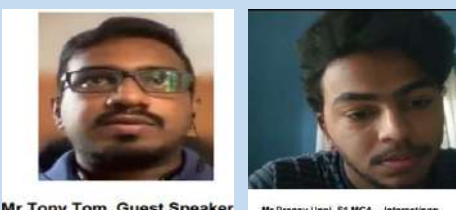


Mr.Ch A S Murthy conducting the session

The Department of Computer Applications in its eighth webinar, invited Mr. Bose Varghese, Data Analyst, Ernst & Young Global Ltd. The topic of the webinar was 'Data Science – An Unexplored World of Opportunities'. It was delivered in Google Meet on Saturday, July 11, 2020 from 11:00 AM



The Department of Computer Applications in its ninth webinar, invited Mr.Vishal B, Technical Officer, Kerala Start Up Mission, Thiruvananthapuram. The topic of the webinar was 'Accelerating Entrepreneurship Spirit to Boost Startup Ecosystem'. The programme was organized in association with Saintgits IEDC, IIC and IE Cell. It was delivered in Google Meet on 12th November 2020 from 01:30 to 02:30 PM.



Mr. Tony Tom, Guest Speaker

Mr. Pranav Unni, S1 MCA – Interacting



Ms. Preeha S. Host

The Student Association of the Department of Computer Applications - SMART at Saintgits its twelfth webinar, invited Mr.Vishnu Lona Jacob, CEO & Chief Mentor – Awake Academy. The topic of the webinar was 'Explore New Age Career Metrics'. It was delivered in Google Meet on Monday, June 28, 2021 from 03:00 PM to 04:00 PM. **Mr. Vishnu Lona Jacob** is a trainer in Personality development, Interviewing Skills, Career Profiling, Neuro Linguistic Programming etc.

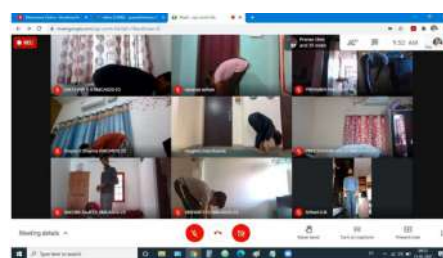


WORKSHOPS

The Department of Computer Applications in an online workshop invited Ms. Smitha Indira, Compliance Manager in Information Security, UST Global, Thiruvananthapuram, as the resource person. The topic of the event was 'Road to Entrepreneurship Beyond Technology – a Workshop on Jewellery Making'. It was delivered in Google Meet on Saturday August 01, 2020, 02:00 PM – 03.30 PM. It was not just a talk but rather, an effective workshop on jewellery making. She answered questions from participants from 03.30 PM to 03.45 PM. The programme came to an end at 03.50 PM.



The Department of Computer Applications in an online workshop invited Ms.Meghna Manchanda, as the resource person. The topic of the event was "Yoga and Pranayama Basics Workshop" – Workshop on Yoga Practice. It was delivered in Zoom platform on Saturday February 13, 2021, 09:30 AM – 10.30 AM. It was not just a talk but rather, an effective workshop on yoga by involving a number of practicing students. She interacted with the participants and corrected the postures of them intermittently after observing them closely and answered questions from participants. The programme came to an end at 11.00 AM.



STARTUP WEBINAR

SAINTGITS
(AUTONOMOUS)
COLLEGE OF ENGINEERING
KOTTAYAM, KERALA
DEPARTMENT OF CIVIL ENGINEERING

WEBINAR ON
STARTUP - CAPTURING THE POTENTIAL OF YOUNG ENGINEERS
25 AUGUST 2020 | 3:00-4:00PM | Google Meet

Click on the link or scan to register: <https://tinyurl.com/y2b539z>
Entry for Students/Faculty/Alumni/Industry
No Registration Fee
E-certificates will be provided for all participants

Dr. Saji Gopinath
CEO, Kerala Startup Mission

CONTACTS
Dr. Reshma Kassin - +91 99815 55090
Dr. Ajesh K. Kottupillai - +91 98471 81979

LEARN . GROW . EXCEL

The Department of Civil Engineering in association with IEDC SAINTGITS conducted a Webinar on "STARTUP- Capturing the Potential of Young Engineers" on Tuesday, August 25, 2020, from 3.00 PM - 4.00 PM. The Guest Speaker was Dr. Saji Gopinath, CEO, Kerala Startup Mission. The session was attended by around 250 participants from various colleges across the state. The Webinar motivated the students to be part of a startup and to learn about the wide range of opportunities available.



leges across the state. The Webinar motivated the students to be part of a startup and to learn about the wide range of opportunities available.

INNOVATION CHALLENGE

EEE department, Saintgits college in association with Saintgits IEDC conducted a "smart Innovation challenge" as a part of techfest DYUTHI 2020. This was an event to identify the students who give better proposals or innovative ideas on smart utilization of renewable energy resources.



HACK WINNER

Robin Roy of S3 CSE B Batch have won Third price in World Blockchain Hackathon conducted from 9th to 11th October 2020. The 3-day virtual hackathon extended from 9th to 11th October 2020 was conducted by The Babylon Project- a movement to grow Blockchain developer ecosystems worldwide.

2ND RUNNER-UP
WORLD BLOCKCHAIN HACKATHON - THE BABYLON PROJECT

THE BABYLON PROJECT IS A
3-DAY VIRTUAL BLOCKCHAIN & DATA SCIENCE HACKATHON WITH THOUSANDS OF PARTICIPANTS FROM 65 COUNTRIES

Mr. ROBIN ROY

V-GUARD BIG IDEA WINNERS

V-GUARD **BIG IDEA - TECH DESIGN 2020**
2ND RUNNER UP
REATS SOLUTIONS

AJAY GOPAL AKBAR DILEEP ELSAPH M BINU

SAINTGITS COLLEGE OF ENGINEERING, KOTTAYAM

Ajay Gopal, Akbar Dileep and Elsaph M Binu (REATS Solutions) secured Third Prize in V-Gurad Big Idea Tech Design 2020. The Big Idea contest is an annual B-Plan contest organized by V-Guard Industries Limited that aims to bring corporate expertise & academic telligence to a common arena, wherein proposed business strategies for V-Guard are discussed, studied, brainstormed and awarded. The event has had participation from 1000+ students across Management & Engineering Colleges

DARE2COMPETE

Saintgits IEDC introduced "Dare2Compete", a 2 day design battle exclusively for Saintgits students on 5th and 6th September 2021. First prize was bagged by TEAM SOLVERS consisted of Sreeshilpa P Mohan and Hima Mary Cherian of S4 ECE. Second prize was won by TEAM EKTA comprising of Alphy Biju Varghese and Jaison James of S4 CSA.

Sreeshilpa P Mohan Hima Mary Cherian
TEAM SOLVERS S4 ECE

Alphy Biju Varghese Jaison James
TEAM EKTA S4 CSA

ORIENTATION

SAINTGITS IEDC
@saintgits_iedc

ORIENTATION 2020

Meet 7:00pm - 8:30pm
31st December 2020

Meet link:
<https://meet.google.com/nuf-hqbw-jzw>

Guest speaker:
Sherin Sam Jose
Nodal officer, IEDC
Amal Jyothi College of Engineering

WORKSHOP

The Department Computer Applications in association with Saintgits IEDC, IIC and IE Cell conducted a workshop on "ACCELERATING ENTREPRENEURSHIP SPIRIT TO BOOST STARTUP ECOSYSTEM" on 12-11-2020 to motivate students and encourage Entrepreneurship in our Campus especially during this Covid-19 Season. Resource Person was Mr. Vishal B, Technical Officer, Kerala Startup mission,

SAINTGITS
(AUTONOMOUS)
COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER APPLICATIONS

in association with Saintgits IEDC, IIC & IE Cell

WORKSHOP ON
ACCELERATING ENTREPRENEURSHIP SPIRIT TO BOOST STARTUP ECOSYSTEM
12-11-2020 | 02:30 PM - 03:30 PM

Speaker
Mr. Vishal B
Technical Officer, Kerala Startup Mission,
Thiruvananthapuram

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INSTITUTION IN KERALA WITH
7 NBA-AAC CREDITED PROGRAMMES
B. Tech | M. Tech | MBA | MCA | Integrated MCA | Ph.D

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STRATUP LAUNCH

Delevmates Delivery Solutions Pvt Ltd, a start-up supported by SAINTGITS IEDC got inaugurated on 10th Januray 2021. It was founded by Emmanuel Zaviyo, former core member of Saintgits IEDC. Delevea founded in 2017, started as food delivery platform which consisted of an online ecommerce food delivery platform in Kollam. The company achieved break even in the first three months of its operation and created a customer base with positive feedbacks.

DELEVEA
DELEVEMATES GROUP
Welcomes

Smt. Prasanna Earnest
Him. Mayan, Kollam

Sri. Kollam Madhu
Him. Deepthy Mayan, Kollam

Smt. Sreelatha S
Chairman, Kollam District

For the Official launch of
DELEVEA

The IEDC orientation programme for the chief officers was held on 31st December, 2020 at 7pm. The session was through Google meet platform with the Meeting link: <https://meet.google.com/nuf-hqbw-jzw> . (Date: 31st December, 2020 Time: 7:00 pm - 8:30 pm). The orientation was lead by Prof. Sherin Sam Jose (Nodal officer - IEDC Amal Jyothi College Of Engineering and Chief executive officer, Startups valley Amal Jyothi TBI)



200+

PLACEMENT OFFERS AND COUNTING...

FOR B. TECH. 2018 - 2022 BATCH

MAJOR RECRUITERS OF 2021-2022



ACADEMICS

- Unique learning experience formulated by seasoned academic and industrial experts.
- Professional Body Membership for Students (ECE, PH/VACE, etc., AICTE, etc.)
- VTU Approved Research Centre with 26 Research Guides
- Twinning Programme with University of Massachusetts Lowell, USA.

INFRASTRUCTURE

- 40+ Well Equipped Labs
- 7 Research Labs
- The only ANSYS Campus in Kerala
- IoT & I4.0 Lab
- Strategic Centre for Innovation and Entrepreneurship
- Libraries and Arts & Sports Facilities
- Best in Class Hostel Facilities

ACCREDITATIONS

- NBA Accreditation (A benchmark of quality for global recognition)
- IEI Accreditation

PLACEMENTS

- Major Recruiters of 2021 - Infosys, TCS, PwC, VVDN, Capgemini, Deloitte, IBM, Black, HDP, SAP, Amazon, Indian Navy, IBM, Federal Bank, Accenture, Mphasis, Mastercard, SOTI, Wipro, Experian

ONE OF THE ONLY THREE AUTONOMOUS ENGINEERING COLLEGES IN KERALA

- EXCLUSIVE COURSES ON ADVANCED TECHNOLOGIES AND TECHNIQUES LIKE BLOCKCHAIN, BIG DATA, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
- TIMELY CONDUCT OF EXAMINATIONS AND PUBLISHING OF RESULTS
- PERIODIC REVIEW AND UPDATING OF SYLLABUS TO MEET THE ACADEMIC AND INDUSTRY REQUIREMENTS
- OPPORTUNITY FOR EXCELLENCE IN INTER DISCIPLINARY FIELD BY CHOOSING MINOR PROGRAMMES AND INDUSTRY RESEARCH PROJECTS
- LEARNING BY DOING - WITH PUBLIC AND PRIVATE COLLEGIACY PROJECTS

THE ONLY UNAIDED
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7 NBA ACCREDITED
PROGRAMMES

