Vision:

To be a model for academic excellence with international outlook in the realm of Electronics & Communication Engineering.

Mission:

- Impart analytical & technical skills in young minds to fortify the process of learning.
- Equip them with state of the art technologies to meet growing challenges of the industry & have a successful career upholding ethical values.

Programme Educational Objectives:

Our graduates will

- Learn and adapt to the growing challenges in the Industry.
- Have a successful professional career in Engineering & allied fields.
- Inherit positive attitude to contribute as a professional, individually and in groups to meet societal needs.

Programme Outcomes:

The Programme Outcomes of Undergraduate in Electronics and Communication Engineering are

PO1: Apply the knowledge of mathematics, science, and engineering fundamentals to provide solutions to engineering or related problems.

PO2: Identify, formulate & analyze complex Engineering problems using principles of basic science & Engineering.

PO3: Design &develop solutions for complex engineering problems considering societal and environmental constraints.

PO4: Investigate complex problems, design experimental setup & interpret results to give valid conclusions.

PO5: Select & apply suitable tools for modeling complex engineering activities.

PO6: Provide solutions for contemporary issues of society.

PO7: Offer sustainable solutions to problems considering the environmental & societal factors.

PO8: Understand and practice professional and ethical values adhering to the norms of engineering practices.

PO9: Function effectively as an individual or team in multi-disciplinary activities.

PO10: Communicate effectively with engineering community & society at large on complex engineering activities.

PO11: Demonstrate acquired skills in managing multi-disciplinary projects considering financial constraints.

PO12: Figure out, learn & adapt to the changing technological arena.

Programme Specific Outcomes (PSOs):

Students will be able to

PSO1: Evaluate and formulate assumptions, approaches, procedures and results related to engineering problems.

PSO2: Design and setup electronic systems as solutions to socio economic problems.

PSO3: Lead a small team of student engineers to perform laboratory experiments or projects and also function as a contributing member in the team.

PSO4: Communicate effectively as well as accurately document the project outcomes.

PSO5: Reflect social commitment in student community.

STUDENT ACHIEVEMENTS

- 25 students of S_8 EC (2013-2017 Batch) got placed in various companies.

- 3 projects were completed with funding from KSCSTE-2 & IE (I)-1. Funds sanctioned for 3 projects – 1 KSCSTE (Rs 10,000/-), 1 CERD (Rs 19,000/-) and 1 APJ Abdul Kalam Youth Challenge Programme (Rs 4.18 lakhs). 8 projects already submitted for funding from KSCSTE, DST-SERB & AICTE.

- S8 and M.Tech students presented papers at the National Conference on Recent Trends in Engineering and Technology (NCRTET 2017) held at Believer's Church Carmel Engineering College on 12th April, 2017.

- 3 projects from S7 EC got selected for exhibition at KTU TECHFEST 2017 of KSCSTE.

- 5 students attended Startupi3 workshop conducted by Kerala Startup Mission at KVM College of Engineering and Information Technology on 9th & 10th March, 2017. After the workshop, a project competition was conducted and the students got 2nd Prize worth Rs 5000/-.

- 2 projects got awards in SRISHTI 2017

- ANSYS-UG (EE/EC/AEI) stream – "Meta material based Micro machined Antenna for Biomedical Applications"- Anaswara Sasi, Chaithra S, Princy Elsa Philip, Ashwini Krishna (S8 EC), Er. Riboy Cheriyan (Guide)

- Analytical stream - "A compact CPW fed octagonal shaped antenna for Ultra Wide Band Applications"- Jinsa Susan Geevarughese, Nimmymol Thomas, Praseeda R, Riyanka Susan Mathew (S8 EC), Dr. Ansal K A (Guide)

FACULTY ACHIEVEMENTS

- Two projects guided by Er. Riboy Cheriyan and Dr. Ansal K A got awards in SRISHTI 2017

- Er. Ashwin P V got third prize in the My Big Idea Competition Edition V for SAINTGITS faculty in SRISHTI 2017 for the idea "Smart Boat Jetty" conducted by SCIE.

- Three projects got funding: KSCSTE (Rs 10,000/-), CERD (Rs 19,000/-) and APJ Abdul Kalam Youth Challenge (Rs. 4.18 lakhs)

- Faculty Sabbatical Internship at Digital Core Technologies, Kochi – Er. Chinn Mohanan completed 6 months internship from 1/8/2016 to 31/1/2017.

Prof. Shajimon K John has been awarded Ph.D from Karpagam University.

Asst. Prof. Lintu Rajan has been awarded Ph.D from NIT, Jaipur.

CONFERENCES

- IEEE SSCS sponsored 4th Conference on Solid State Circuits was successfully conducted on 25th and 26th August, 2016 which got a funding of funding of USD 3500.

FDPs, STTPs & WORKSHOPS

- 6 days FDP on "Workshop on Role of VLSI and Embedded Systems in Next Generation wireless Technologies" in association with Entuple Technologies, Bangalore & Pantech Pro.Ed. Pvt. Ltd., Chennai was conducted from 28/11/2016 to 3/12/2016 with the co-sponsorship from KSCSTE by extending financial assistance of Rs 20,000/-.

- Three Day Workshop on "EDA Tools - OrCAD" for Technical Staff in Electrical, Electronics & Instrumentation branches (Phase I) conducted from 9th to 11th January, 2017 in association with IETE.

- 6 days ISTE STTP on "CMOS, Mixed Signal and Radio Frequency VLSI Design" by IIT Kharagpur conducted from 30th January, 2017 to 4th February, 2017 in SAINTGITS College of Engineering (Remote center, RCID:1042)

- 2 days training on ANSYS HF package by Entuple Technologies Pvt. Ltd., Bangalore for faculty members of ECE Department was conducted on 7th & 8th February, 2017.

- EC Hobby club conducted a training program on Arduino Programming for the S4 students on 23rd March, 2017 at Embedded Systems Lab. The session was handled by our alumnus Er. Sandeep B Kadam of 2011-15 batch ECE.

- In association with IETE students forum, a "Workshop on Arduino" was conducted for 3rd year students of Circuit branches in the Microprocessor lab on 22nd March, 2017.

EXPERT TALKS

- A technical talk on "Embedded Systems Applications" by Er. S. Thomas (CEO, Digital Core Technologies Pvt. Ltd.) was conducted on 25th August, 2016 for S7 EC students.

- An interactive talk on "4G Technology" was conducted for S5 EC students on 28th September, 2016 at 2.30 pm. Er. Kamalasanan P K, Sr. Sub Divisional Engineer, BSNL, Panampally Nagar, Ernakulam handled the session.

- In association with ASGEC & NSS, a talk on "Cybercrime Awareness" by our alumnus, Mr. Arun T S (2007-2011 Batch; Cyber Consultant, Kerala Police) conducted on 4th October, 2016 for the whole EC Department.

- In association with IETE, a talk on "Raspberry Pi" by our alumnus, Mr. Jibin K John was conducted for S5 & S7 EC students on 3rd October, 2016.

- Dr. Ragesh G K & Er. Riboy Cheriyan delivered a talk on "Career Guidance-Engineering Prospects" to students at SB HSS, Changanacherry on 19th January, 2017 under SWEET (SAINTGITS Workshop for Enrichment of Engineering Techniques for Students) program.

AWARENESS PROGRAMMES

- EC Hobby Club conducted an awareness program on "Cashless Payment Systems" on 17th & 19th December, 2016. This program is aimed to educate the nearby villagers, how to use different methods of cashless payment systems, through card payments, virtual payment systems under UPI provided by NPCI, India & Money Wallets.

- An awareness program on "Cashless Payment Systems", conducted for staff of SAINTGITS College on 20th December, 2016. Er. Jyothish Chandran G coordinated the programme.

TAILOR MADE COURSES

- "Tailor made courses" for PG (VLSI) & UG (VLSI, Embedded & Comm.) was inaugurated on 13th March, 2017 by Mr. Harish Mysore, Director IEEE India Operations. The aim of the programme is to enhance the employability & train students to meet industry requirements. Syllabus was approved by Industry Experts for VLSI & Embedded system courses. Funding for VLSI is from IEEE SSCS. The classes started from 1st April, 2017

- "Tailor made course in embedded systems" 1st class by Er. S Thomas, CEO DigiCore Technologies Pvt. Ltd. was conducted on 13th May, 2017 from 10.00am to 4.00pm in the ECE Seminar Hall (SB 201).

GYANIKKOPPAM

- The 1st series of "Gyanikkoppam - Know the Genius" programme was with Mr. Harish Mysore, Director IEEE India Operations on 13th March, 2017. Er. Chinn Mohanan, Er. Ashwin P V & Er. Anu Raj were the Coordinators.

- The 2nd series of Gyanikkoppam was with Dr. Neelakandan Jayasankar, Commissioner of Income Tax, Cochin on 3rd April, 2017. Er. Ashwin P V, Er. Anu Raj & Dr. Ragesh G K were the coordinators.

- **MoU:** MoU between Pantech ProEd Pvt. Ltd. & Department of ECE, SAINTGITS College of Engineering was signed on 3rd December, 2016.

- **Merit Day:** Merit Day cum concluding Ceremony of ASGEC Activities 2016-2017 of EC Department was conducted on 21st April, 2017.

- **National Technology Day 2017 celebration:** The National Technology Day was celebrated on 9th & 10th May, 2017 with KSCSTE sponsorship in association with IETE Students Forum. Inter Collegiate Quiz competition, Project competition and Paper Presentation was conducted on 9th May, 2017 and prize distribution was done on 10th May, 2017. Chief Guest for the celebration was Er. C M Varghese, Sr. Member IEEE, Chairman, SEEM, Kerala, MD Igatech Electronics, Kochi. Rs 15,000/- sanctioned from KSCSTE on 02/05/2017 for the programme. Coordinator was Er. Beena A O and Convener was Er. Riboy Cheriyan.

- **HORIZON 2K16:** Technical fest of ECE Department, HORIZON was conducted on 5th & 6th August, 2016.

- **VLSI RIGS E-newsletter:** The first Volume of VLSI RIGS E-newsletter was published on 7th October, 2016.

- **Digital letters in ELECTRONICS:** The first Volume of Digital letters in ELECTRONICS by ISTE Students Chapter, Department of Electronics and Communication engineering published in the month of October, 2016.

- **Technical Demonstration:** In association with IE (I), EC Department conducted a technical demonstration on "VLSI Hardware – Nexus 3 & 4" on 10th & 11th November, 2016.

- **Ice breaking Session** for S4 EC (2015-2019 batch) conducted on 30th & 31st January, 2017 at MOC, Puthuppally, Kottayam. Mr. Ajay Jose (trainer) trained the students on 31st January, 2017.

- **Sent off function:** The sent off party to the B.Tech final year students (2013-2017 Batch) was conducted on 19th April, 2017 and the sent off function by the S8 students was at Kumarakom Lake Resort on 25th April, 2017.

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