



**SAINTGITS**  
LEARN.GROW.EXCEL

# SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

**DEPARTMENT OF ELECTRONICS ENGINEERING**

Programmes: Applied Electronics & Instrumentation  
Electronics & Communication Engineering  
Robotics & Automation

## NEWSLETTER

JULY 2021

### VISION OF THE DEPARTMENT

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

### MISSION OF THE DEPARTMENT

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

PEO 1 Learn and adapt to the growing challenges in the Industry.

PEO 2 Have a successful professional career in Engineering & allied fields.

PEO 3 Inherit positive attitude to contribute as a professional, individually and in groups to meet societal needs. leadership.

### PROGRAMME OUTCOMES

PO 1 Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2 Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO 3 Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4 Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5 Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO 6 The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7 Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9 Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11 Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12 Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

### PROGRAMME SPECIFIC OUTCOMES

PSO 1 Ability to apply concept of Electronics and Communication Engineering knowledge to analyze engineering problems in the perceptive of Embedded systems, VLSI, Signal Processing and Communication.

PSO 2 Ability to design and develop electronic systems solution using relevant hardware and software tools.

PSO 3 Prepare a successful career and as an entrepreneur by solving the socio economic problems with innovative ideas in the electronics domain.

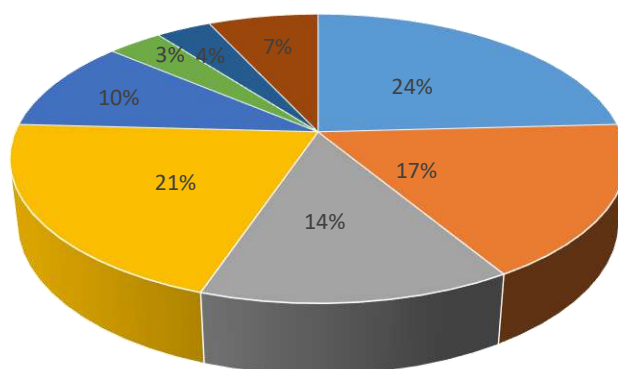
## ACADEMICS

PG RESULTS		
Batch	Semester	Pass%
KTU Batch		
2018-2020 VE	S4	100%
2018-2020 TE	S4	100%
2018-2020 RA	S4	100%
2019-2021 TE	S2	100%
2019-2021 RA	S2	100%
Autonomy Batch		
2020-2022 VE	S1	100%
2020-2022 TE	S1	100%
2020-2022 RA	S1	83.33%

UG RESULTS		
Batch	Semester	Pass%
KTU Batch		
2016-2020 AEI	S8	85.71%
2016-2020 ECE	S8	98.25%
2017-2021 AEI	S6	62.50%
2017-2021 ECE	S6	87.50%
2018-2022 AEI	S4	38.80%
2018-2022 ECE	S4	93.94%
2019-2023 AEI	S2	83.30%
2019-2023 ECE	S2	84.90%
2019-2023 RB	S2	71.10%
Autonomy Batch		
2020-2024 ECE	S1	69.09%
2020-2024 RB A	S1	48.65%
2020-2024 RB B	S1	51.35%

## Placement Statistics

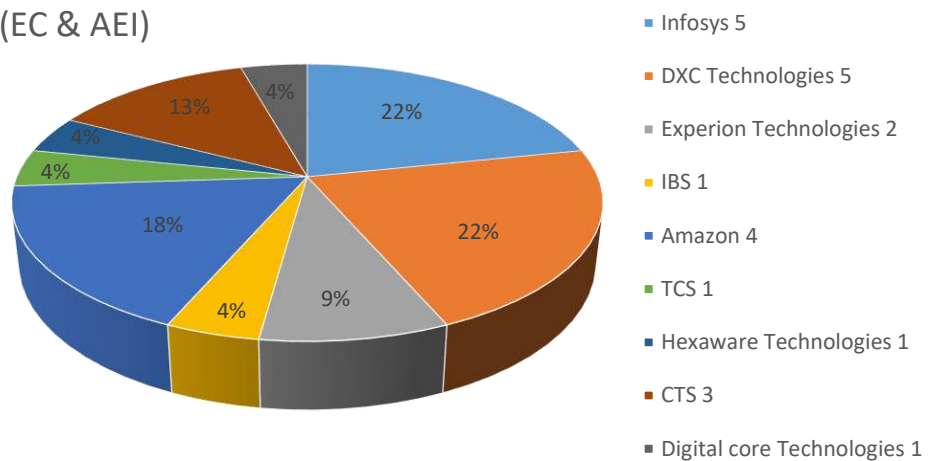
2017-21 Batch (EC & AEI)



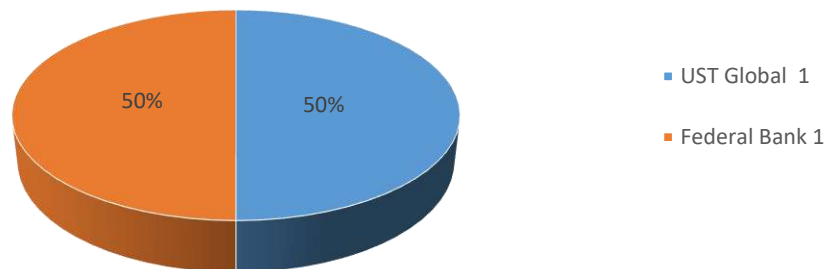
- UST Global 7
- TCS 5
- Infosys 4
- Quest Global 6
- Aspire NXT 3
- Planetspark 1
- Gadgeon 1
- 6D Technologies 2

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2016-20 Batch (EC & AEI)



2019-21 Batch M.Tech (TE & RA)



## TECHNICAL TALKS

- Department of Electronics Engineering in association with ASGEC organized a Motivational talk on Placements by Mr. Joel Abraham (2016-20) on 5<sup>th</sup> Sept 2020 at 7.00pm through Google Meet for the final (2017-21) and prefinal (2018-22) year students of ECE and AEI. Er. Dhanusha P B - ASGEC in-charge
- ASGEC of Department of ECE in association with Women's forum organized a webinar on the topic "Women's health with special reference to PCOS" as part of Ayush Gramam project, Pallom Block on 28<sup>th</sup> September, 2020 (7.30pm- 9.00pm) through Google Meet for all girl students and ladies' staff. 98 participants were attended. The guest speaker was Dr. Vaheeda Rahman A, Senior Medical Officer, Govt. Ayurveda Dispensary, Pathanamthitta. Dr. Sreekala K S - Women's Forum charge and Webinar Coordinator, Er. Hanna Mathew - Coordinator, Er. Dhanusha P B - ASGEC in-charge
- 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 10<sup>th</sup> 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

## Add-on Courses

Sl. No.	Batch	Title	Date	Faculty Involved
1.	2018-22 ECE	Add-on Course on "Introduction to Image Processing using MATLAB and IoT Product Development from the scratch" for S5 students	1st to 3rd February, 2021	Er. Roshni Oommen (Add-on coordinator) Er. Nishanth P R, Er. Chinn Mohanan, Er. Jyothish Chandran G (Resource Persons)
2.	2019-23 ECE	Add-on Course on "Python Programming" for S3 students	8 <sup>th</sup> to 12 <sup>th</sup> February, 2021	Er. Roshni Oommen (Add-on coordinator). Er. Nithin Prince, Er. Justin Mathew, Er. Veena Kumar and Er. Aneena Ann of CSE dept. (Resource Persons)
3.	2019-23 AEI	Add-on Course on "Electronics, Design and Automation" for S3 students	19 <sup>th</sup> to 23 <sup>rd</sup> February, 2021	Er. Anish Thomas, Er. Rizwana Akbar (Add-on coordinators). Er. Anish Thomas, Er Harinarayanan N M G (Resource Persons)

## R & D Activities

### Projects sanctioned for funding:

- CUSAT CATDM (Center for Advanced Technologies in Disaster Management) - Geojit (Funding Agency) (Student Project) – 1 project - SIWAR, A Robust Teleoperated 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 14<sup>th</sup> 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 20<sup>th</sup> July, 2020 (Project Period – 2 years) (Release of a sum of Rs.5,88,235/- as 1st instalment)

### Ongoing Funded Projects:

Sl. No.	Project Title	Project Period	Duration of the Project	Project Fund (Rs.)	Principal Investigator/Co-Investigator	Funding Agency
1	Mud and manhole cleaning robot	01.12.2018 to 01.12.2021	3 years	Rs.1,40,000/-	Er. Harinarayanan Nampoothiri M G (PI)	CERD (Faculty Research Seed Money)
2	Power generation using Gravitational power plants	01.12.2018 to 01.12.2021	3 years	Rs.1,40,000/-	Er. Vinayakumar B (PI)	CERD (Faculty Research Seed Money)
3	Design and development of a Temperature Controlled Micro Chamber with precise monitoring and control for Lab –on chip applications using MEMS	01.12.2019 to 01.12.2022	3 years	Rs.1,80,000/-	Dr. Rahul Antony (PI), Er. Vinu Koshy Abraham (Co-PI)	CERD (Faculty Research Seed Money)

- 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 25<sup>th</sup> July, 2020.

## Industry Internships/ Trainings

Company	Batch	Number of students	Period
Industrus Tech	2019-23 AEI	1	13/01/2021 to 18/01/2021
BSNL RTTC, TVM	2019-23 ECE	1	06/07/2020 to 17/07/2020
BSNL RTTC, TVM	2019-23 ECE	2	20/07/2020 to 31/07/2020
Cougar Planet	2019-23 ECE	3	20/07/2020 to 05/08/2020
Pantech Solutions	2019-23 ECE	2	27/07/2020 to 31/07/2020
Industrus Tech	2019-23 ECE	1	28/12/2020 to 02/01/2021
Industrus Tech	2019-23 ECE	4	13/01/2021 to 18/01/2021
Enfono Technologies	2019-23 ECE	1	19/04/2021 to 28/04/2021
Virtual World	2019-23 RB	1	27/07/2020 to 09/08/2020
Pixpil Design	2019-23 RB	1	04/08/2020 to 04/01/2021
Unschool	2019-23 RB	1	28/09/2020 to 11/10/2020
Jankalyan, Nagpur	2019-23 RB	1	11/12/2020 to 11/01/2021
Industrus Tech	2019-23 RB	7	13/01/2021 to 18/01/2021
Pacelab	2018-22 ECE	5	24/07/2020 to 31/07/2020
Pacelab	2018-22 ECE	4	10/08/2020 to 17/08/2020
Pacelab	2017-21 ECE	4	10/07/2020 to 17/07/2020
IEEE Mumbai	2017-21 ECE	1	09/11/2020 to 28/11/2020
Inker Robotics	2017-21 ECE	3	01/08/2020 to 30/01/2021

## Self-Learning Programmes

- **NPTEL**
- 8 students of 2017-21 ECE batch completed - NPTEL course - Electronic systems for cancer diagnosis
- students of 2017-21 AEI batch completed - Coursera course - Programming for everybody (Getting started with Python)
- **COURSERA**
- 25 students of 2020-24 ECE batch, 5 students of 2020-24 RB A batch, 1 student of 2019-23 ECE batch, 2 students of 2019-23 RB batch, 1 student of 2018-22 ECE batch, 18 students of 2017-21 ECE batch, 3
- 6 students of 2020-24 ECE batch completed - Coursera course - Learn to Program: The Fundamentals
- 1 student of 2020-24 ECE batch completed - Coursera course - Python Basics
- 1 student of 2020-24 ECE batch completed - Coursera course - Java Programming and Software Engineering Fundamentals

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- 1 student of 2020-24 ECE batch completed - Coursera course - The joy of computing using Python
  - 1 student of 2020-24 ECE batch completed - Coursera course - Learn to coding – Python
  - 5 students of 2020-24 RB B batch completed - Coursera course - Technical support fundamentals
  - 1 student of 2020-24 RB B batch completed - Coursera course - Neural networks and deep learning
  - 1 student of 2020-24 RB B batch completed - Coursera course - IT Infrastructure and emerging trends
  - 1 student of 2020-24 RB B batch completed - Coursera course - Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications
  - 2 students of 2020-24 RB B batch completed - Coursera course - Google IT support with Python Sub course: Crash course on Python
  - 1 student of 2020-24 RB B batch completed - Coursera course - Introduction to Python
  - 1 student of 2020-24 RB A batch, 1 student of 2017-21 ECE batch completed - Coursera course - Introduction to the Internet of Things and Embedded Systems
  - 1 student of 2020-24 ECE batch, 2 students of 2017-21 ECE batch completed - Coursera course - Introduction to Artificial Intelligence
  - 1 student of 2019-23 AEI batch completed - Coursera course - Model Thinking
  - 1 student of 2019-23 ECE batch completed - Coursera course - An Introduction to Programming the Internet of Things (IoT)
  - 1 student of 2019-23 ECE batch completed - Coursera course - Applied Machine Learning in Python
  - 1 student of 2019-23 RB batch completed - Coursera course - Online Course on Introduction to html5
  - 1 student of 2019-23 RB batch completed - Coursera course - Using Python to access web data
  - 1 student of 2019-23 RB batch, 2 students of 2018-22 ECE batch, 3 students of 2017-21 ECE batch completed - Coursera course - Python Data Structures
  - 1 student of 2018-22 AEI batch completed - Coursera course - Graphic Designing
  - 1 student of 2017-21 ECE batch completed - Coursera course - Getting Started with AI using IBM Watson
  - 6 students of 2017-21 ECE batch, 1 student of 2017-21 AEI batch, 2 students of 2019-23 RB batch completed - Coursera course - C for everyone (Programming Fundamentals)
  - 1 student of 2017-21 ECE batch completed - Coursera course - The Arduino Platform and C Programming
  - 2 students of 2017-21 AEI batch completed - Coursera course - Machine Learning For All
  - 6 students of 2017-21 AEI batch completed - Coursera course - AI for everyone
  - 1 student of 2017-21 AEI batch completed - Coursera course - Covid-19 Contact Tracing
  - 4 students of 2020-22 RA batch completed - Coursera course - Fundamentals of Fluid Power
  - 3 students of 2020-22 VE batch completed - Coursera course - Digital Systems: From Logic Gates to Processors
  - 2 students of 2020-22 VE batch completed - Coursera course - VLSI CAD Part I: Logic
  - 1 student of 2020-22 VE batch completed - Coursera course - Introduction to IoT
  - 1 student of 2020-22 VE batch completed - Coursera course - Python Programming
  - 1 student of 2020-22 VE Batch completed - Coursera course - Machine Learning
- UDEMY**
- 1 student of 2019-23 ECE batch completed - Udemy course - Python 3 Course: The complete guide
  - 1 student of 2019-23 RB batch completed - Udemy - Self programmer
- edX**
- 3 students of 2019-23 RB batch completed - edX course - Introduction to Data Science
  - 1 student of 2019-23 RB batch completed - edX course - Robot Development

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- 4 students of 2019-23 ECE batch, 8 students of 2017-21 ECE batch completed - edX course - AI for Everyone: Master the Basics
- 1 student of 2017-21 ECE batch completed - edX course - Foundations of AI

### EDUIONX

- 1 student of 2018-22 ECE batch completed - Eduionx course - The Complete Python 3 Course Beginner to Advanced

### UNSCHOOL

- 1 student of 2020-24 RB B batch completed - Unschool course - Artificial Intelligence

### CISCO Networking Academy

- 1 student of 2020-24 RB B batch completed - CISCO Networking Academy course - Introduction to cyber security

### CAD Solution

- 1 student of 2018-22 AEI batch completed - CAD Solution course - CSWA

### Cognitiveclass.ai

- 1 student of 2019-23 RB batch completed - Cognitiveclass.ai course - Python 101 for data science

### Canvas (through Webinar)

- 1 student of 2019-23 RB batch completed - Canvas (through Webinar) course - IUCEE student chapter course

- 13 faculty members successfully completed various online courses offered by Coursera, UiPath, Udemy and edX

- Two faculty members successfully completed IUCEE course on "Online Teaching" with Distinction.

- Amrita Virtual Lab: Amrita Virtual Lab is utilized for conducting GATE model multiple choice quizzes for all courses and also for conducting online lab sessions. (Dr. Rahul Antony – AEI in-charge, Er. Bini Thomas – RB in-charge, Er. Dhanusha P B – ECE in-charge)

## Patents Filed

Sl. No.	Name	Project Title	Details	Type of IPR
1	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
2	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)



3	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)
4	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
5	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
6	Dr. Binu K Mathew	Solid State Switch based Quiz Buzzer	Application Number: 202041050177, Filed Date: 18.11.2020, Publication date: 27.11.2020	Indian
7	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
8	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

## Faculty Publications

- In Journals: 11
- In Conference Proceedings: 11
- In Book Chapter: 01
- Accepted for Publication: 10

## MoU with Industries & Universities/Institutions

- MoU between Entuple Technologies (P) Ltd & Saintgits College of Engineering signed on 19<sup>th</sup> April, 2017 for 5 years.
- MoU between Digital Core Technologies Pvt. Ltd & Saintgits College of Engineering for Industry Academy Collaboration Program signed on 03<sup>rd</sup> May, 2019 for 5 years.

## Institute-Institute Programmes

- Dr. Shajimon K John – Resource Person for the Mosharaka Remote Seminar on “Making agriculture smarter – the role of IoT” conducted by Mosharaka Remote Seminars on 30<sup>th</sup> November, 2020.
- Dr. Riboy Cheriyan – 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 28<sup>th</sup> 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 11<sup>th</sup> February, 2021. Coordinator - Dr. Ansal K A.
- 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 1<sup>st</sup> September, 2020 to 5<sup>th</sup> 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 29<sup>th</sup> and 30<sup>th</sup> 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 2<sup>nd</sup> 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 28<sup>th</sup> October, 2020.

## FDPs & Workshops

- Department of Electronics and Communication Engineering in association with IETE Kochi Centre organized a National Level 4 days online Faculty Development Programme on "Emerging Research Trends in VLSI, MEMS and Signal Processing" through Google Meet. Total of 85 participants attended the FDP from in and outside India from 10<sup>th</sup> to 13<sup>th</sup> August, 2020. Dr. Beena A O and Er. Roshni Oommen - FDP Coordinators, IETE Coordinator - Dr. Riboy Cheriyan. The resource persons for the sessions were as follows:-
  - Dr. Youhan Sunny, Assistant Professor, Department of ECE, Saintgits College of Engineering (10.08.2020, 10.00am to 11.00am)
  - Dr. Sreenidhi P.R, Assistant Professor, Department of ECE, Amrita Vishwa Vidyapeetham, Kollam (10.08.2020, 2.00pm to 3.00pm)
  - Dr. Lintu Rajan, Assistant Professor, Department of ECE, National Institute of Technology, Calicut (11.08.2020, 10.00am to 11.00am)
  - Dr. Krishnapriya S, Assistant Professor, Department of ECE, Muthoot Institute of Technology and Science (11.08.2020, 2.00pm to 3.00pm)
  - Dr. Rahul Antony, Associate Professor, Department of ECE, Saintgits College of Engineering (12.08.2020, 10.00am to 11.00am)
  - Dr. Shajimon K John, Professor, Department of ECE, Saintgits College of Engineering (12.08.2020, 2.00pm to 3.00pm)
  - Dr. Riboy Cheriyan, Professor & HOD (ECE & RA), Saintgits College of Engineering (13.08.2020, 10.00am to 11.00am)
- Er. Mithun C A, Research scholar, IIT Madras (13.08.2020, 2.00pm to 3.00pm)
- The department of ECE in association with ISTE Saintgits chapter organized an International Online Faculty Development Programme on the topic "Microsystems Design and Control Engineering" through Google Meet for Research scholars and faculty members from National and International Institutions from 17<sup>th</sup> to 20<sup>th</sup> September, 2020. Total 150 participants attended the FDP (100 External Participants And 50 Inhouse Participants). Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator. The resource persons for the sessions were as follows.
  - Dr. Anuj Abraham, Scientist at A\*STAR - Agency for Science, Technology and Research, Singapore (17.09.2020, 11.00am to 12.30pm)
  - Kalpana Senthamarai Kannan, SRF, Nano Electronics and Nanotechnology, University of Grenoble Alpes, TIMA Lab France (18.09.2020, 2.00pm to 3.30pm)
  - Dr. Ramesh K Gupta, Postdoctoral Researcher, Institute for Research in Electronics and Applied Physics (IREAP), University of Maryland, USA (19.09.2020, 7.00pm to 8.30pm)
  - Dr. Laxma Reddy Billa, Senior Process Engineer, Dynex Semiconductor Ltd, United Kingdom (20.09.2020, 3.30pm to 5.00pm)
- The Internet of Things (IoT) club of Saintgits College of Engineering organized an online workshop on "Internet of Things" through Google Meet for the interested students and

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faculty members of Saintgits on 17<sup>th</sup> October, 2020 and 18<sup>th</sup> October, 2020. Total number of participants attended the workshop were 88. The workshop covered NodeMCU open-source firmware and development board for IoT applications development. Er. Abraham K Thomas - IoT Coordinator. The resource persons for the workshop were as follows

- Er. Chinn Mohanan Department of Electronics, Saintgits College of Engineering (17th October, 2020 (10.00am to 11.00am)) and
- Er. Nishanth P R, Department of Electronics, Saintgits College of Engineering (18th October, 2020 (3.00pm to 4.00pm))
- Department of ECE, SAINTGITS College of Engineering organized an AICTE - Training and Learning (ATAL) Academy sponsored 5 days online FDP on the topic "Internet of Things (IoT) for Wearable Devices" through Zoom for faculty members of AICTE approved institutions, Research / PG Scholars & Employees from related Industries from 11<sup>th</sup> January, 2021 to 15<sup>th</sup> January, 2021. Total no. of participants - 200 (174 only successfully completed the FDP). The fund sanctioned was Rs 93,000/-. Dr. Ansal K A - FDP Coordinator, Er. Abraham K Thomas - FDP Co-coordinator. The resource persons for the FDP were as follows:
  - 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, Department of Electronics Engineering, Saintgits
  - Er. Jyothish Chandran G, Department of Electronics Engineering, Saintgits
  - Dr. Youhan Sunny, Department of Electronics Engineering, Saintgits College of Engineering
    - Dr. Muruganatham P, IIIT West Bengal
- 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 11<sup>th</sup> and 12<sup>th</sup> February, 2021. Dr. Riboy Cheriyan - IETE coordinator & Workshop Coordinator. The Resource person for the workshop was Dr. Sreekala K S, Assistant Professor (Special), Department of Electronics Engineering, Saintgits

## Professional Society & Innovation Cell Activities

**IETE** (Coordinator ECE & RB - Er. Riboy Cheriyan)

- Department of Electronics and Communication Engineering in association with IETE Kochi Centre organized a National Level 4 days online Faculty Development Programme on "Emerging Research Trends in VLSI, MEMS and Signal Processing" through Google Meet. Total

of 85 participants attended the FDP from in and outside India from 10<sup>th</sup> to 13<sup>th</sup> August, 2020. Dr. Beena A O and Er. Roshni Oommen - FDP Coordinators, IETE Coordinator - Dr. Riboy Cheriyan.

- 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 21<sup>st</sup> November, 2020. Total number of participants attended were 120. Dr. Riboy Cheriyan - IETE Coordinator/SIP 10 in-charge, Dr. Beena A O - Webinar Coordinator

- IETE Kochi Centre and IETE Students' Forum (ISF), Saintgits jointly conducted "Walk with scholar program – GYANIKKOPPAM" on 9<sup>th</sup> 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. Honouring ceremony of the newly elected Distinguished Fellow Member of IETE Sri C K Haridas, DGM (Retired) BSNL Palakkad was also conducted along with the GYANIKKOPPAM programme. Total number of participants attended were 235. Dr. Riboy Cheriyan - IETE 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 11<sup>th</sup> and 12<sup>th</sup> February, 2021. Dr. Riboy Cheriyan - IETE coordinator & Workshop Coordinator.

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

- The IE(I) students' chapter Applied Electronics and Instrumentation Engineering division conducted a Poster Design Competition on 7<sup>th</sup> August, 2020. Er. Agitha M S - IE(I) E&I Advisor.
- The IE(I) students' chapter Applied Electronics and Instrumentation Engineering, Saintgits College of Engineering conducted a webinar on

the topic "Robotics: From fiction to science" through Google Meet for interested students of Saintgits on 19<sup>th</sup> September, 2020. Total number of participants attended were 45. The resource person was Er. Harinarayanan Nampoothiri M G, Assistant Professor, Department of Electronics Engineering, Saintgits College of Engineering. Er. Agitha M S - IE(I) E&I Advisor

- World Standards Day is celebrated on October 14 every year. The Institution of Engineers (India) Students' Chapter of Saintgits College of Engineering celebrated World Standards Day, divisionwise, with various programmes in that week. The IE(I) students' chapter Applied Electronics and Instrumentation Engineering division conducted an Essay Competition on 14<sup>th</sup> October, 2020. Total number of students participated were 15. Er. Agitha M S - IE(I) E&I Advisor
- The IE(I) students' chapter Applied Electronics and Instrumentation Engineering division conducted a Paper Presentation Competition on 15<sup>th</sup> January, 2021. Er. Agitha M S - IE(I) E&I Advisor
- The IE(I) students' chapter Applied Electronics and Instrumentation Engineering division conducted a Project Presentation Competition on 1<sup>st</sup> February, 2021. Er. Agitha M S - IE(I) E&I Advisor
- The Institution of Engineers (India) Saintgits Student's Chapter - Robotics & Automation 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 for interested students and faculty members on 19<sup>th</sup> October, 2020. Total number of participants attended were 40. Er. Abraham K Thomas - IE(I) department charge –

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ECE & RB, Dr. Suresh Babu M - Department of Physics

- The Department of ECE, Saintgits College of Engineering 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 25<sup>th</sup> August, 2020. Total number of participants attended were 38. The resource person for the webinar was Dr. Riboy Cheriyan, HOD ECE & RA, Saintgits College of Engineering. Er. Abraham K Thomas - IE(I) Department Coordinator – ECE & RB.
- World Standards Day is celebrated on October 14 every year. The Institution of Engineers (India) Students' Chapter of Saintgits College of Engineering celebrated World Standards Day, divisionwise, with various programmes in that week. The Institution of Engineers India Electronics Division organized an Intradepartmental event "Technical JAM" for the students of S3 (2019-23), S5 (201822) and S7 (2017-21) through Google Meet on 21<sup>st</sup> October, 2020. Er. Abraham K Thomas - IE(I) Department Coordinator – ECE & RB.
- The IE(I) Electronics Division in association with the Department of Electronics Engineering conducted an Intradepartmental Project Competition and Paper Presentation Competition on 25<sup>th</sup> and 27<sup>th</sup> January, 2021. Er. Abraham K Thomas - IE(I) Department Coordinator – ECE & RB.

**ISTE:** (Coordinator - Dr. Ansal K A)

- Department of ECE 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 21<sup>st</sup> August, 2020. 70 Participants (21 External Participants) attended the webinar. He also agreed to take a session on block chain later. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.

- Department of ECE 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 12<sup>th</sup> September, 2020. Total 149 participants (114 external, 45 from Saintgits) attended the webinar. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
- The department of ECE in association with ISTE Saintgits chapter organized an International Online Faculty Development Programme on the topic "Microsystems Design and Control Engineering" through Google Meet for Research scholars and faculty members from National and International Institutions from 17<sup>th</sup> to 20<sup>th</sup> September, 2020. Total 150 participants attended the FDP (100 External Participants and 50 Inhouse Participants). Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
- The Department of ECE 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 7<sup>th</sup> October, 2020. Total 120 Participants (96

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- external, 24 from Saintgits) attended the webinar. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
- The Department of ECE 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 31<sup>st</sup> October, 2020. Total number of participants attended the webinar were 119. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
  - 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" for the undergraduate students of Electronics and Communication Engineering department through Google Meet online platform on 30<sup>th</sup> May, 2021. Total number of participants attended were 50. Dr. Ansal K A - ISTE Coordinator, Er. Maheswary Sreenath – Webinar Coordinator.

## External Talks

- Department of AEI, Saintgits College of Engineering conducted a webinar 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 4<sup>th</sup> July, 2020. Total 325 participants attended the webinar. The webinar coordinator was Dr. Rahul Antony.
- Department of AEI, Saintgits College of Engineering conducted a webinar on the topic "Importance of Intellectual Property Rights - A student Perspective" by Dr. Sreedha P, KSCSTE Kerala through Google Meet on 11<sup>th</sup> July, 2020. Total 325 participants attended the webinar. The webinar coordinator was Dr. Rahul Antony.
- The Institution of Engineers (India) Saintgits Student's Chapter - Robotics & Automation 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 for interested students and faculty members on 19<sup>th</sup> October, 2020. Total number of participants attended were 40. Er. Abraham K Thomas - IE(I) department charge – ECE & RB, Dr. Suresh Babu M - Department of Physics
- Department of ECE 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 21<sup>st</sup> August, 2020. 70 Participants (21 External Participants) attended the webinar. He also agreed to take a session on block chain later. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.



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- Department of Electronics Engineering in association with ASGEC organized a Motivational talk on Placements by Mr. Joel Abraham (2016-2020 ECE batch) on 5<sup>th</sup> September, 2020 (at 7.00pm) through Google Meet for the final (2017-21) and prefinal (2018-22) year students of ECE and AEI. Er. Dhanusha P B - ASGEC in-charge
- Department of ECE 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 12<sup>th</sup> September, 2020. Total 149 participants (114 external, 45 from Saintgits) attended the webinar. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
- ASGEC of Department of ECE in association with Women’s forum organized a webinar on the topic “Women’s health with special reference to PCOS” as part of Ayush Gramam project, Pallom Block on 28<sup>th</sup> September, 2020 (7.30pm to 9.00pm) through Google Meet for all girl students and ladies’ staff. 98 participants were attended. The guest speaker was Dr. Vaheeda Rahman A, Senior Medical Officer, Govt. Ayurveda Dispensary, Pathanamthitta. Dr. Sreekala K S - Women's Forum charge and Webinar Coordinator, Er. Hanna Mathew - Coordinator, Er. Dhanusha P B - ASGEC incharge
- The Department of ECE 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 7<sup>th</sup> October, 2020. Total 120 Participants (96 external, 24 from Saintgits) attended the webinar. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
- 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 10<sup>th</sup> 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 incharge
- The Department of ECE 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 31<sup>st</sup> October, 2020. Total number of participants attended the webinar were 119. Dr. Ansal K A - ISTE Advisor/Coordinator, Er. Maheswary Sreenath - Co-coordinator.
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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. Dr. Riboy Cheriyan - IETE Coordinator

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### Internal Talks

- The Department of ECE, Saintgits College of Engineering 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 25<sup>th</sup> August, 2020. Total number of participants attended were 38. The resource person for the webinar was Dr. Riboy Cheriyan, HOD ECE & RA, Saintgits College of Engineering. Er. Abraham K Thomas - IE(I) Department Coordinator – ECE & RB.

- The IE(I) students' chapter Applied Electronics and Instrumentation Engineering, Saintgits College of Engineering conducted a webinar on the topic "Robotics: From fiction to science" through Google Meet for interested students of Saintgits on 19<sup>th</sup> September, 2020. Total number of participants attended were 45. The resource person was Er. Harinarayanan Nampoothiri M G, Assistant Professor, Department of Electronics Engineering, Saintgits College of Engineering. Er. Agitha M S - IE(I) E&I Advisor.

### National/International Recognition

- **NBA:** Department of Electronics & Communication Engineering was provisionally accredited by NBA in Tier-II for academic years 2016-17 to 2018-19 whose validity expired on 30<sup>th</sup> June, 2019. An expert team conducted data verification of the accredited programs on 2<sup>nd</sup> March, 2019 and further accredited for

another 3 years (Academic years 2019-20 to 2021-22) i.e., up to 30<sup>th</sup> June, 2022.

- **IEI:** Accredited
- **NAAC:** Accreditation process going on. Department coordinator - Er. Abraham K Thomas (NBA Coordinator) and Academic Coordinators.



**Editor**

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