



*We Make You Shine*

# St. Joseph's Institute of Technology

St. Joseph's Group of Institutions

Jeppiar Educational Trust

OMR, Chennai - 600119



DEPARTMENT OF

## ELECTRONICS & COMMUNICATION ENGINEERING



# NEXUS'21

Department activities : 1st June 2020 - 31st May 2021  
volume : 10

# MESSAGES

**Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.,  
Chairman**

It gives me immense pleasure to commend the staff and the students of the Department of Electronics and communication Engineering for this excellent package “NEXUS’21”. This magazine maps the merits and milestones accomplished by the college. I sincerely hope that the efforts put in by the students and the staff helps them in all their future endeavours.

**Mrs. S. Jessie Priya M.Com.,  
Managing Director**

This magazine is testament to the academic excellence of the college which in myriad ways is ingrained in our culture. It gives me great pleasure to see the exceptional potential of the students of the Department of Electronics and communication Engineering, in various extra-curricular activities as well as in academics. I congratulate the staff and the students on bringing out this wonderful magazine.

**Mr. B. Shashi Sekar M.Sc.,  
Director**

I am very happy that our institution has shown a marvellous presentation of the activities through “NEXUS’21”. I congratulate the staff and students for their excellent effort. Today, as we march towards a technological world, we aspire to open new vistas in the field of education for our students and this magazine helps us in our efforts.

**Dr. P. Ravichandran M.Tech., Ph.D.,  
Principal**

I take this opportunity to laud the efforts of all those who were involved in the making of this magazine from the Department of Electronics and communication Engineering, St. Joseph’s Institute of Technology. I would also like to appreciate the relentless efforts of our teachers for giving their best in bringing out the best in each student helping them achieve their goals.

We invite you to explore our magazine NEXUS ‘21. We are sure that this magazine will quench the technical thirst of the students. It also unveils the college’s accomplishments in the past one year. We express our gratitude to our **Chairman** Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D., **Managing Director** Mrs. S. Jessie Priya, M.Com., **Director** Mr. B. Shashi Sekar, M.Sc., **Principal** Dr. P. Ravichandran M.Tech., Ph.D., **HOD (Staff affairs)** Dr. C. Gnana Kousalya M.E., Ph.D., **HOD (Lab Affairs)** Dr. G. Rohini M.E., Ph.D. and staffs for providing us a podium to express our innovation and encouraging us in completing this edition of NEXUS ‘21.

## **Staff Editors**

**Mr. Suresh D**

Assistant Professor,  
Dept of ECE

**Mr. Immanuel K**

Assistant Professor,  
Dept of ECE

## **Cover page Designer**

1. **Dhanush B** III year ECE
2. **Bharath S J** III year ECE

## Vision

To come forth as an eminent department in the field of electronics and communication engineering, research for providing ethical resource persons to serve the industry and society with technical excellence.

## Mission

The department strives

- To provide the best resources in teaching, learning and other educational activities which will train the student to attain his or her fullest potential in the field of Electronics and Communication Engineering.
- To inculcate technical knowledge, leadership qualities, teamwork and ethical practices in students so as to meet the expectations of the industry as well as the society.
- To organize exclusive courses, conferences, seminars on the current technological developments which will be an added benefit for bringing out the various talents in the students and faculties.
- To sustain connectivity with industries to get on par with the recent technologies and research.
- To foster career improvement through placements, higher education and entrepreneur skills by continuous training and guidance.

The 6<sup>th</sup> Graduation Day was presided over by Dr. B. Babu Manoharan, Chairman, St. Joseph's Group of Institutions, Mrs. S. Jessie Priya, Managing Director and Mr. B. Shashi Sekar, Director, St. Joseph's Group of Institutions, and Dr. P. Ravichandran, Principal, St. Joseph's Institute of Technology. A total of **589** students received their degrees. Our college has bagged 3 University Ranks in Anna University Examinations held in May 2020. All the **Rank Holders** were honoured with a Cash Prize of **Rs. 25,000/-** & Shields. The total prize money amounts to worth **Rs 2 Lakhs** was distributed to the graduands on this astonishing occasion.

## PLACEMENT DETAILS

Among the **590** students who receive their degree, **484** of them placed through campus interviews, **65** through off-campus interviews and **12** of them have become entrepreneurs. The students were placed in many leading organizations like Amazon, Soliton, Bosch, Ashok Leyland, Wheels India, HSBC, Bonfiglioli, Cognizant Technology Solutions, Wipro, Infosys, Mu-Sigma, Tech Mahindra, Zoho, Mindtree, Financial Software Services, SSWL India, VVDN, Torry Harris, etc., with a salary package ranging from **Rs. 3 Lakhs to 10 Lakhs** per annum

## HIGHER STUDIES

**33** students are pursuing their higher studies at various Universities in India as well as abroad. Students have got admission into Top Ranking Universities like Monash University, Berlin University, University of Waterloo, University of Texas, Drexel, Coventry University, Texas A & M University, Karlsruhe Institute of Technology-Germany, Edinburgh Napier University, National University of Singapore, Illinois Institute of Technology, NJIT, University of West Virginia, Leeds University (UK), North Carolina State University and so on through our Advisory Bureau for Higher Studies (ABHS).

## CO-CURRICULAR ACTIVITIES

- **Vishnunathan. C** and **Jonathan Rajya**, Dept. of CSE won CTS Best Project Award in the Project Contest conducted by Cognizant Technology Solutions.
- **Vishnunathan. C**, **Rohit**, **Rosalind Sugumar**, **Sharvya** and **Satheesh**, Dept. of CSE as a team named 'Hacoders' won **I place** and a cash prize of **Rs. 75,000/-** at **Smart India Hackathon** held at Bhimavaram, Andhra Pradesh.
- **ArunaKrishnan**, and **Christy Kingsly** Dept. of ECE won cash award of **Rs.3000/-** from student project funding organized by IEEE Madras Section.
- **Aruna Krishnan**, and **Christy Kingsly**, Dept. of ECE won cash award of **Rs.7500/-** from TNCST funding for the project "Smart Insole".
- **Vijaya Rahavan.R**, Dept. of ECE, has won IEEE EMBS Best Student Chapter Award from IEEE student chapter.

## EXTRA-CURRICULAR ACTIVITIES

Our students have excelled not only in the field of academics, but also in the field of sports.

**Mr. Adarshkumar. P** has won **2 gold** medals and **4 silver** medals in National Level boxing Tournament and also has won **2 gold** medals and **1 silver** medal in the International level boxing Tournaments. **Ms.Vijaylakshmi. D** has won I prize in inter Zone athletic meet and III prize in Zonal athletic meet. She has also received Chief Minister Trophy and has won **8<sup>th</sup>** position in the 91<sup>st</sup> Tamil Nadu Senior Athletics meet.

The Management, Principal and Staff extend a hearty congratulation to all the above students and all the budding graduates for their academic and extra-curricular achievements.

<b>No. of students Appeared</b>	:	652
• No. of students Passed	:	590
• Pass Percentage	:	90.5%
• First Class with Distinction	:	31
• Passed with First Class	:	578

### University Rank Cash Awards: Total Rs. 2.25 Lakhs

• Cash Award (3*25,000)	:	Rs. 75,000
• Shields & Medals	:	Rs 1.5 Lakhs

### Placement

#### Total no. of Students Placed through

• Individual offers through Campus Recruitment	:	484
• Placed through off-campus Recruitment	:	86
• Self Employed	:	12

### Higher Studies

#### Students pursuing Higher Studies through Advisory Bureau for Higher Studies (ABHS)

• Abroad	:	18
• India	:	15

### Sports

Represented Anna University in	:	2
All India University Tournaments		

## BEST OUTGOING STUDENT AWARD:

The best outgoing students from various departments were selected based on various traits, achievements or accomplishments like CGPA, attendance, dress code, quality of the project, active participation in department activities, etc. The best outgoing students of 2016-2020 batches from various departments are as follows:

S. No.	Dept.	Name of the Student
1.	CSE	VISNUNATHAN.C
2.	ECE	GOWTHAM.V
3.	EEE	ALI AHAMED KHAN
4.	IT	SEETHARAMAN.C
5.	MECH	AAGASHRAM.N
6.	CIVIL	KARTHIK.T

The Management has constituted awards to the topper in each branch. The merit awardees are:

Sl. No.	Name of the Award	Branch	Year	Name of the student
1	SOUNDRAIBAI BAULRAJ AWARD	CSE	2016-2020	BENIS JENISHA. D
2	Dr. MGR AWARD	ECE		HEMALATHA. S
3	ANNAI JANAKI MGR AWARD	EEE		SHREYA DEEP DUBEY
4	Dr. JEPPIAAR AWARD	MECH		AAGASHRAM. N
5	PERUNTHALAIVAR KAMARAJAR AWARD	IT		GLADYS K. J
6	M. VISVESVARAYA AWARD	CIVIL		KARTHIK. T

## UNIVERSITY RANK HOLDERS

Our Students have excelled in their academics and have secured 3 University Ranks in the Anna University Examinations. The list of rank holders is mentioned below:

Sl.No	Department	Student Name	Rank	CGPA	Cash Award
1	CSE	D.BENIS JENISHA	21	8.89	25,000
2	CIVIL	KARTHIK. T	22	8.83	25,000
3	CIVIL	ANUSHREE BHATTACHARJEE	27	8.75	25,000

## ACHIEVEMENTS OF OUR STUDENTS YEAR AFTER YEAR

Year of passing	UNIVERSITY RESULTS			PLACEMENT			HIGHER STUDIES		ANNA UNIVERSITY RANKS			
	Total No of Students	No of Students Passed	% of Pass	Through Campus Interview	Off Campus Interview	Self Employed / Own Business	Abroad	India	Total no of University Ranks	Gold Medals	Silver Medals	Other Ranks
2020	652	590	90.5	484	86	12	18	15	3	-	-	3
2019	655	554	84.5	432	71	12	30	50	2	-	-	2
2018	719	614	85.39	286	64	10	27	48	11	-	-	11
2017	574	505	87.97	245	55	10	19	41	13	-	-	13
2016	439	373	85	181	76	10	14	37	5	-	-	5
2015	343	253	73.8	82	74	07	11	32	1	-	-	1

## DETAILS ABOUT 2020 PASSED OUT BATCH

DETAILS	B.E
Number of students passed	109
Number of students passed with first class and distinction	14
Number of students passed with first class	103
Recipient of Trust Award	HEMALATHA. S
PLACEMENT	
Campus Placement	65
Off campus	06
DOING HIGHER STUDIES	
In India	06
In Abroad	02



## *Staff Activities*

The Department of Electronics and Communication Engineering has always served its work meticulously since recognized. The standard of education can be widened when the teaching representatives build the art of publishing articles and research papers.

### **Faculty Highlights**

- **Dr. M. Samayaraj Murali** has successfully completed her Ph.D. Degree from Anna University, Chennai in the faculty of Information and Communication and Engineering.

### *Papers Published in Patent, Journals & Conference By Staff Members*

#### **Patent Publications**

1. **Dr.C.Gnana Kousalya** published a Patent titled “System and Method for Fuzzy based Control and measurement of temperature and humidity for Greenhouse” in the Official Journal of the Patent Office, on 19/1/2021, Australian Journal (Filed No. 2021100311).
2. **Dr.C.Gnana Kousalya** published a Patent titled “IoT Based Touch Detecting Hand Glove for Post Pandemic Safety” in the Official Journal of the Patent Office, on 14/9/2020, Australian Journal (Filed No. 2020102232).
3. **Dr.G.Rohini** published a Patent titled “System and Method for Fuzzy based Control and measurement of temperature and humidity for Greenhouse” in the Official Journal of the Patent Office, on 19/1/2021, Australian Journal (Filed No. 2021100311).
4. **Dr.G.Rohini** published a Patent titled “IoT Based Touch Detecting Hand Glove for Post Pandemic Safety” in the Official Journal of the Patent Office, on 14/9/2020, Australian Journal (Filed No. 2020102232).
5. **Dr.P.G.V.Ramesh** published a Patent titled “IoT based smart wearable child and women<sup>TM</sup>s safety device” in the Official Journal of the Patent Office, from 10/11/20 to 13/9/2020, Indian Journal (Filed No. 202041049152 A).
6. **Dr.A.Akilandeswari** published a Patent titled “Internet of Things (IoT) based monitoring system for agriculture” in the Official Journal of the Patent Office, on 19/12/2020, Indian Journal (Filed No. 202041056142).
7. **Dr.D.Sungeetha** published a Patent titled “Internet of Things (IoT) based monitoring system for agriculture” in the Official Journal of the Patent Office, on 19/12/2020, Indian Journal (Filed No. 202041056142).
8. **Mr.J.Bino** published a Patent titled “An Artificial Intelligent Based Interactive Surveillance System” in the Official Journal of the Patent Office, on 28/9/2020, Indian Journal (Filed No. 202041042000).

#### **Publications in Journals**

##### **International level**

1. **Dr.C.Gnana Kousalya** published a Paper titled “Utilization of Fish Excrete for Plant Growth Using SVM –Proceedings of Algorithms for Intelligent Systems” in **Springer Nature Book Series**, on Jan 2021.
2. **Dr.C.Gnana Kousalya** published a Paper titled “Block Chain Technology & its application: a survey on data and network analysis” in International Research Journal of Engineering and Technology (IRJET) (**GOOGLE SCHOLAR**), on Sep 2020.
3. **Dr.G.Rohini** published a Paper titled “Block Chain Technology & its application: a survey on data and network analysis” in International Research Journal of Engineering and Technology (IRJET) (**GOOGLE SCHOLAR**), on Sep 2020.
4. **Dr.G.Rohini** published a Paper titled “Quality and Durability Checking Of Clothes, International Journal of Scientific & Engineering Research” in International Journal of Scientific & Engineering Research (IJSER) (**GOOGLE SCHOLAR**), June 2020.
5. **Dr.P.G.V.Ramesh** published a Paper titled “Performance analysis of coherent free-space optics transmission link using in-phase quadrature modulator-based polarization multiplexed-256-quadrature amplitude modulation” in Transactions on Emerging Telecommunication Technologies, Wiley (**Scopus/ SCI/SCIE**), on Mar 2021.

6. **Dr.P.G.V.Ramesh** published a Paper titled "Theoretical investigation for optimization of FWM effects for 1Tb/s ultra-band DWDM system -Opto Electronics and Advanced materials- Rapid Communication" in Opto Electronics and Advanced materials- Rapid Publications (**Scopus/SCI/SCIE**), on April 2021.
7. **Dr.P.G.V.Ramesh** published a Paper titled "Supervised regression modelling for mitigation of four-wave mixing in dense wavelength-division multiplexing systems" in Ukrainian Journal of Physical Optics (**Scopus/SCI/SCIE**), on Nov 2020.
8. **Dr.P.G.V.Ramesh** published a Paper titled "Design of a compact printed low pass filtering antenna with wideband harmonic suppression for automotive communication" in International Journal of RF and Microwave Computer-Aided (**SCI**), on Sep 2020.
9. **Dr.P.G.V.Ramesh** published a Paper titled "Design of Compact UWB Filter Using Parallel-coupled Line and Circular Open-circuited Stubs" in International Journal IETE Journal of Research (**SCI**) on August 2020.
10. **Dr.P.G.V.Ramesh** published a Paper titled "Design of compact patch antenna with enhanced gain and bandwidth for 5G mm-wave applications" in IET Microwaves, Antennas & Propagation (**Scopus/SCI**), on June 2020.
11. **Dr.P.G.V.Ramesh** published a Paper titled "Design of Miniaturized Super wideband Printed Monopole Antenna Operating From 0.7 to 18.5 GHz" in AEU-International Journal of Electronics and Communication (**Scopus/Web of Science/ SCI**), on June 2020.
12. **Dr.P.G.V.Ramesh** published a Paper titled "Pandemic Welfare Guidance" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on April 2021.
13. **Dr. A.Akilandewari** published a Paper titled "Design and Fabrication of Cost Effective FDM Based 3D Printer for sustainable Environment" in International Journal of Green Engineering (**Scopus**) on Jan 2021.
14. **Dr. G.S.Uthayakumar** published a Paper titled "Health support system for diabetic prevention using IOT and networked health monitoring equipment" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on April 2021.
15. **Dr. G.S.Uthayakumar** published a Paper titled "Remote detection for the presence of NH<sub>3</sub>,CO<sub>2</sub>,CH<sub>4</sub>,H<sub>2</sub>O,CO and other toxic gases at various locations in a sewer to alert the user" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on April 2021.
16. **Dr. G.S.Uthayakumar** published a Paper titled "Early Stage Disease Diagnosis Using Human Nail in Image Processing "in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on April 2021.
17. **Dr. G.S.Uthayakumar** published a Paper titled "EMG Monitoring System "in International Journals of Research in Engineering and Technology, on May 2021.
18. **Dr. G.S.Uthayakumar** published a Paper titled "A Cost Effective Vehicle Monitoring and Security System using Sensors" in International Journals of Research in Engineering and Technology, on March 2021.
19. **Dr.Jeba Johannah Samuel** published a Paper titled "Low-Power Deep-Submicron CMOS Adder Using Optimized Delay Universal Gates" in **Springer Nature Book Series**, on April 2021.
20. **Dr.Jeba Johannah Samuel** published a Paper titled "Multi Patient Wireless Monitoring for Pandemic with Continuous Reading Analysis and Alert Generation for Affected Patient" in International Journals of Research in Engineering and Technology, on April 2021.
21. **Mrs. S.Tephillah** published a Paper titled "An SETM Algorithm for Combating SSDF Attack in Cognitive Radio Networks" in **Wiley -Hindawi (SCI)** on July 2020.
22. **Mrs. S.Tephillah** published a Paper titled "Improving the Lifetime of an Out-Patient Implanted Medical Device Using a Novel Flower Pollination-Based Optimization Algorithm in WBAN Systems" in International Journal of Advances in Mathematical Methods for Machine Learning Algorithms for Computer Aided Diagnostic Systems) **MDPI**, on December 2020.

23. **Mrs. S.Tephillah** published a Paper titled "Cloud Based Virtual Analysis of Patients and Automatic Assistance Using ML" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on April 2021.
24. **Mrs. S.Tephillah** published a Paper titled "Identification of Malicious User to Combat SSDF Using Trust Based Machine Learning Techniques in Cognitive Radio Networks" in International Journal of International Journal of Future Generation Communication and Networking (ESCI), on Mar 2021.
25. **Dr.M.V.Karthikeyan** published a Paper titled "Improving the Lifetime of an Out-Patient Implanted Medical Device Using a Novel Flower Pollination-Based Optimization Algorithm in WBAN Systems" in International Journal of Advances in Mathematical Methods for Machine Learning Algorithms for Computer Aided Diagnostic Systems) MDPI, on December 2020.
26. **Dr.M.V.Karthikeyan** published a Paper titled "Virtual Brain: Model Based Framework for Dependable EEG Sensing and Actuation in Intelligent Brain IoT System" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
27. **Dr.M.V.Karthikeyan** published a Paper titled "The Smart Assistant for Library Management and Book Reader for Blind People Using Raspberry Pi" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
28. **Mr.D.Suresh** published a Paper titled "Efficient Water Usage Prediction and Metering System Using IoT" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
29. **Mr.D.Suresh** published a Paper titled "Landslide Detection" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
30. **Mr.T.Siva** published a Paper titled "Smart Railway Gate Assistance System Using AI" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
31. **Mr.K.Immanuel** published a Paper titled "Smart Railway Gate Assistance System Using AI" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
32. **Mr.J.Bino** published a Paper titled "Review of mobile apps in combating COVID-19 in India" in International Journal of Solid State Technology (Scopus), on April 2021.

## Publications in Conference

### International level

1. **Dr.C.Gnana Kousalya** published a paper titled "Smart Mask for COVID-19 E-WARE" in International Conference on Emergent Converging Technologies and Biomedical Systems (ETBS-2021), at University Institute of Engineering & Technology, Kurukshetra University, and Haryana.
2. **Dr.C.Gnana Kousalya** published a paper titled "Utilization of Fish Excrete for Plant Growth Using SVM" in Springer International Conference on Data Intelligence and Cognitive Informatics [ICDICI 2020], at SSCAD College of Engineering and Technology Cheranmahadevi, India
3. **Dr.G.Rohini** published a paper titled "Smart Mask for COVID-19 E-WARE" in International Conference on Emergent Converging Technologies and Biomedical Systems (ETBS-2021), at University Institute of Engineering & Technology, Kurukshetra University, and Haryana.
4. **Dr.P.G.V.Ramesh** published a paper titled "Sterilization of COVID-19 Virus Using Uv-C Band Radiation" in International Conference on Recent Challenges in Science, Engineering and Technology-2021, at International Institute of Research In Multidisciplinary.
5. **Dr.P.G.V.Ramesh** published a paper titled "Pandemic Welfare Guidance" in International Conference on Recent Challenges in Science, Engineering and Technology-2021, at International Institute of Research In Multidisciplinary.



6. **Dr.P.G.V.Ramesh** published a paper titled "Green Agriculture Monitoring System" in International conference on Recent Developments in Engineering management Science and Technology, ICRDET, Dhaanish Ahmed College of Engineering, Chennai.
7. **Dr.A.Akilandeswari** published a paper titled "License verification system with face recognition using IOT" in International Conference On Recent Challanges In Science Engineering And Technology-2021, Chalapathi institute of technology, Andhra Pradesh.
8. **Dr. G.S.Uthayakumar** published a paper titled "Health support system for diabetic prevention using IOT and networked health monitoring equipment" in International conference on Research in Electronics and Communication Techniques (ICREACT 2021) at SRM Institute of Science and Technology, Vadapalani, Chennai.
9. **Dr. D.Sungeetha** published a paper titled "Study of BOT as disinfect machination" in International conference on information and communication engineering, Bharath institute of engineering, Hyderabad.
10. **Dr. D.Sungeetha** published a paper titled "Non-invasive glucose Monitoring and ECG detection using RED tacton" in International virtual conference on recent trends in electrical energy, Artificial intelligence, Internet on things and Nano materials, M.Kumarasamy College of engineering, Karur.
11. **Dr. D.Sungeetha** published a paper titled "Smart poultry system monitoring using IOT" in International Conference on Recent Challenges in Science, Engineering and Technology-2021, at International Institute of Research In Multidisciplinary
12. **Dr. D.Sungeetha** published a paper titled "An hospital application involving deep learning methodology for detecting nutrients intake" in International Conference On Recent Challanges In Science Engineering And Technology-2021, Chalapathi institute of technology, Andhra Pradesh.
13. **D.Sungeetha** published a paper titled "RSSI Overload Localisation System" in International conference on Recent Developments in Engineering management Science and Technology, ICRDET, Dhaanish Ahmed College of Engineering, Chennai.
14. **Dr.J.Jeba Johannah** published a paper titled "Multipatient Wireless Monitoring For Pandemic With Continuous Reading Analysis And Alert Generation For Affected Patient" in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
15. **Dr.J.Jeba Johannah** published a paper titled "Invention Of Third Vision With Vocal Recognition For Safe Guarding Women With A Live Surrounding Update Using Mobile App" in International Conference on Recent Challenges in Science, Engineering and Technology-2021, at International Institute of Research In Multidisciplinary.
16. **Dr.Samayaraj murali kishanlal** published a paper titled "Parking Availability Indicating Application Using Smart QR Scanning" in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
17. **Dr.Samayaraj murali kishanlal** published a paper titled "LORA Based End To End Tracking System Overcoming Signal Transmission Error" in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
18. **Mr M.Senthil murugan** published a paper titled "Colour Detection Based Robotic Cart Using Raspberry Pi" in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
19. **Mr M.Senthil murugan** published a paper titled "Smart Irrigation Control with Disease Detection Using Machine Learning and Arduino Controller" in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
20. **Mrs.S.Tephillah** published a paper titled "Identification of forged money using ML Algorithm" in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.

21. **Mrs.S.Tephillah** published a paper titled “Intelligent Crutch tool for Body Posture management System to avoid Injuries” International Conference on Research & Developments in Engineering & Management.
22. **Mrs.S.Tephillah** published a paper titled “A Intelligent pet feeder control system using Internet of things” in International Virtual Conference on emerging frontiers in Control & Communication Technologies, at Mohamed Sathak A J College of Engineering, Chennai.
23. **Dr.M V Karthikeyan** published a paper titled “The Smart Assistant for Library Management and Book Reader for Blind People Using Raspberry Pi” in International Conference on Recent Challenges in Science, Engineering, and Technology-2021, Virtual Conference, Guntur, Andhra Pradesh, India in association with IIRM-SDT.
24. **Dr.M V Karthikeyan** published a paper titled “Lung Cancer Detection Using CT-Scan Images” in International Conference on Recent Challenges in Science, Engineering, and Technology-2021, Virtual Conference, Guntur, Andhra Pradesh, India in association with IIRM-SDT.
25. **Mrs.G.Akilandeswari** published a paper titled “Next Generation Network Coding Technique for IoT” in International Conference on Computing, Communication and Networking Technologies (ICCCNT).
26. **Mr.T.Siva** published a paper titled “Low cost ventilator for covid-19” in International Conference on Recent Challenges in Science, Engineering and Technology-2021, at International Institute of Research In Multidisciplinary.
27. **Mr.T.Siva** published a paper titled “Smart railway gate Assistance system using AI” in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
28. **Mr.D.Suresh** published a paper titled “Efficient Water Usage Prediction and Metering System Using IOT” International Conference on Research in Electronics Engineering and Communication Techniques, SRM Institute of Technology, Chennai.
29. **Mr.D.Suresh** published a paper titled “Prisoner Escape Alert System to the Warden inside the Prison” in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
30. **Mrs.P.Princy Magdaline** published a paper titled “Medical Assist Robot for Isolated Ward Patient in Hospital” in International Conference on Research & Developments in Engineering & Management - ICRDEM-2021.
31. **Mrs.A.Maria Christina Blessy** published a paper titled “Review of challenges and performance optimization of Radio over Fiber technology in 5G mobile data communication” International conference on “sustainable material and its green Technology for industry 4.0”,Adithya institute of technology, Coimbatore.
32. **Mr.A.Dinesh kumar** published a paper titled “Smart Card based Electricity Payment & Energy Sharing” in International conference on Recent Developments in Engineering management Science and Technology, ICRDET, Dhaanish Ahmed College of Engineering, Chennai.
33. **Mr.K.Immanuel** published a paper titled “COVID Detection with Advanced Deep Learning Algorithms” International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering, Shri Valliammai Engineering College, Chennai.
34. **Mr.J.Bino** published a paper titled “IoT Security Enhancement with Automated Identification Device using IOT SENTINEL” in 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence).
35. **Mr.J.Bino** published a paper titled “Intelligent Bicycle Race Monitoring System Using IoT” in International Conference on Recent Challanges in Science Engineering and Technology-2021, Chalapathi institute of Technology, Andhra Pradesh.
36. **Mr.J.Bino** published a paper titled “Finger Vein Extraction and Authentication for ATM” in International conference on Recent Developments in Engineering management Science and Technology, ICRDET, Dhaanish Ahmed College of Engineering, Chennai.

### *Workshops Attended By Staff Members*

S. No	Staff Name	Designation	Workshop Name	Organizer Details	Dates	Duration
1	Dr. C. Gnana Kousalya	Professor	The Bodhi Tree and Safe Tools for Effective Online Teaching	IIT, Bombay	20/06/20	1 days
			Internet of Things	GNA University, Punjab	09/07/20 to 11/07/20	3 days
2	Dr. G. Rohini	Professor	The Bodhi Tree and Safe Tools for Effective Online Teaching	IIT, Bombay	20/06/20	1 days
			Intellectual Property Rights Regime and its Impact	AMET University, Chennai	25/05/21	1 days
3	Dr. P.G.V Ramesh	Professor	How to draft effective scientific publishing, patents and patent filling	Bharath Institute of Engineering & Technology, Hyberabad	02/07/20 to 04/07/20	3 days
			Intellectual Property Rights Regime and its Impact	AMET University, Chennai	25/05/21	1 days
4	Dr. D.Sungeetha	Associate Professor	Research Scope in Remote Sensing	St. Joseph's College of Engineering, Chennai.	24/06/20 to 26/06/20	3 days
			Energy Technology & Sensor System	IIITDM, Kanchepuram	28/07/20 to 30/07/20	3 days
5	Dr.A.Akilandeswari	Associate Professor	Data Science	Eswari engineering college, Chennai.	08/07/2020 to 09/07/2020	2 days
6	Dr.J.Jeba johannah Samuel	Associate Professor	ASIC Design Verification using system verilog	Sandeepani School of Embedded system, Bangalore	01/06/20 to 03/06/20	3 days
			Virtual E- Labs – VLSI & Analog Experiments	Pantech E-Learning	04/01/21 & 05/01/21	2 days
7	Dr.G.S.Uthayakumar	Associate Professor	Intellectual Property Rights Regime and its Impact	AMET University. Chennai	25/05/21	1 day
8	Mr.M.Senthilmurugan	Associate Professor	Intellectual Property Rights Regime and its Impact	AMET University, Chennai	25/05/21	1 day
9	Dr.Samayaraj Murali Kishan Lal	Associate Professor	Artificial Intelligence	Lendi Institute of Engineering & Technology, Kakinada.	22/05/20 to 26/05/20	5 days
10	Mrs.S.Tephillah	Assistant Professor	Intellectual Property Rights Regime and its Impact	AMET University, Chennai	25/05/21	1 day

### *Faculty Development Programme Attended By Staff Members*

S. No	Staff Name	Designation	FDP Name	Organizer Details	Dates	Duration
1.	Dr. C. Gnana Kousalya	Professor	Research Aspects in Signal and Image processing	Mohamed Sathak A J College of Engineering, Chennai	27/07/20 to 31/07/20	5 days
			Sensors Technology	St. Joseph's Institute of Technology, Chennai (AICTE & ATAL SPONSORED)	17/08/20 To 21/08/20	5 days
			Digital Image Processing	NPTEL-AICTE FDP	12 Weeks	
			Artificial Intelligence and 5G communication Technology	Poornima College of Engineering, Jaipur	26/04/20 To 1/05/20	6 days
2.	Dr. G. Rohini	Professor	Sensors Technology	St. Joseph's Institute of Technology, Chennai (AICTE & ATAL SPONSORED)	17/08/20 To 21/08/20	5 days
			Digital Image Processing	NPTEL-AICTE FDP	12 Weeks	
			Recent Trends in Wireless Communication Technologies	Bangalore Institute of Technology, Bangalore	03/08/20 to 05/08/20	3 days
			3 days FDP	Programme Monitoring Office – Innovation * Entrepreneurship Development Programme	20/01/21 to 22/01/21	3 days
			Artificial Intelligence and 5G communication Technology	Poornima College of Engineering, Jaipur	26/4/21 To 1/5/21	6 days
3.	Dr. P.G.V Ramesh	Professor	Role of IOT & Wireless Sensor Network in Knowledge Engineering	Atria Institute of Technology, Bengaluru	14/9/20 to 16/9/20	3 days
			EC8761 Advanced Communication Laboratory	St. Joseph's College of Engineering, Chennai.	22/07/20 to 24/07/20	3 days
			Photonics	National Institute of Technology Karnataka.	1/2/21 to 5/2/21	5 days
			Research and Development in Wireless Communication Application using NetSim and MATLAB	Pondicherry Engineering College, Pondicherry	23/11/20 to 28/11/20	6 days

4.	Dr. D.Sungeetha	Associate Professor	Role of Artificial intelligence in Electronics	Sathyabama Institute of Science and Technology, Chennai	01/6/20 to 05/06/20	5 days
			Evolving Trends in Communication and Networking	St. Joseph's College of Engineering, Chennai.	06/07/20 to 10/07/20	5 days
			Recent Trends in IOT, Industry 4.0& Machine Learning	RGM College of Engineering & Technology, Andhra Pradesh	11/08/20 To 15/08/20	5 days
			VLSI Physical Design using cadence Innovus Tool	St. Joseph's College of Engineering, Chennai.	20/07/20 to 24/07/20	5 days
			Emerging trends and research challenges in next generation wireless networks	Kongu nadu college of engineering	29/03/21 to 03/04/21	6 days
			Machine Learning techniques for Imaging and Health care with python	Sai Ram Engineering College	28/1/21 To 10/2/21	14 days
5.	Dr. J. Jeba Johannah Samuel	Associate Professor	Recent Trends in Computational Intelligence for Healthcare monitoring system	Bannari Amman Institute pf Technology, Sathyamangalam	23/8/20 to 28/8/20	6 days
			Digital VLSI Testing	NPTEL-AICTE - FDP	12 weeks	
			VLSI Physical Design using cadence Innovus Tool	St. Joseph's College of Engineering, Chennai.	20/07/20 to 24/07/20	5 days
			EC8791- Embedded and Real Time Systems	Saveetha Engineering college, Chennai	15/06/20 to 19/06/20	5 days
			Machine Learning	Saveetha Engineering college, Chennai	13/07/20 to 17/07/20	5 days
6.	Dr.A.Akilandeswari	Associate Professor	High Intense Course on Machine Learning on MATLAB	Vel Tech High Tech, Avadi	23/11/20 to 01/12/20	6 days
			Scilab and NgSpice	Universal college of engineering and technology	22/06/20 to 26/06/20	5 days
			VLSI Physical Design using cadence Innovus Tool	St. Joseph's College of Engineering, Chennai.	20/07/20 to 24/07/20	5 days
7.	Dr.G.S.Uthayakumar	Associate Professor	FPGA based Digital Design with HDL- Phase-I	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	25/01/21 to 30/01/21	5 days



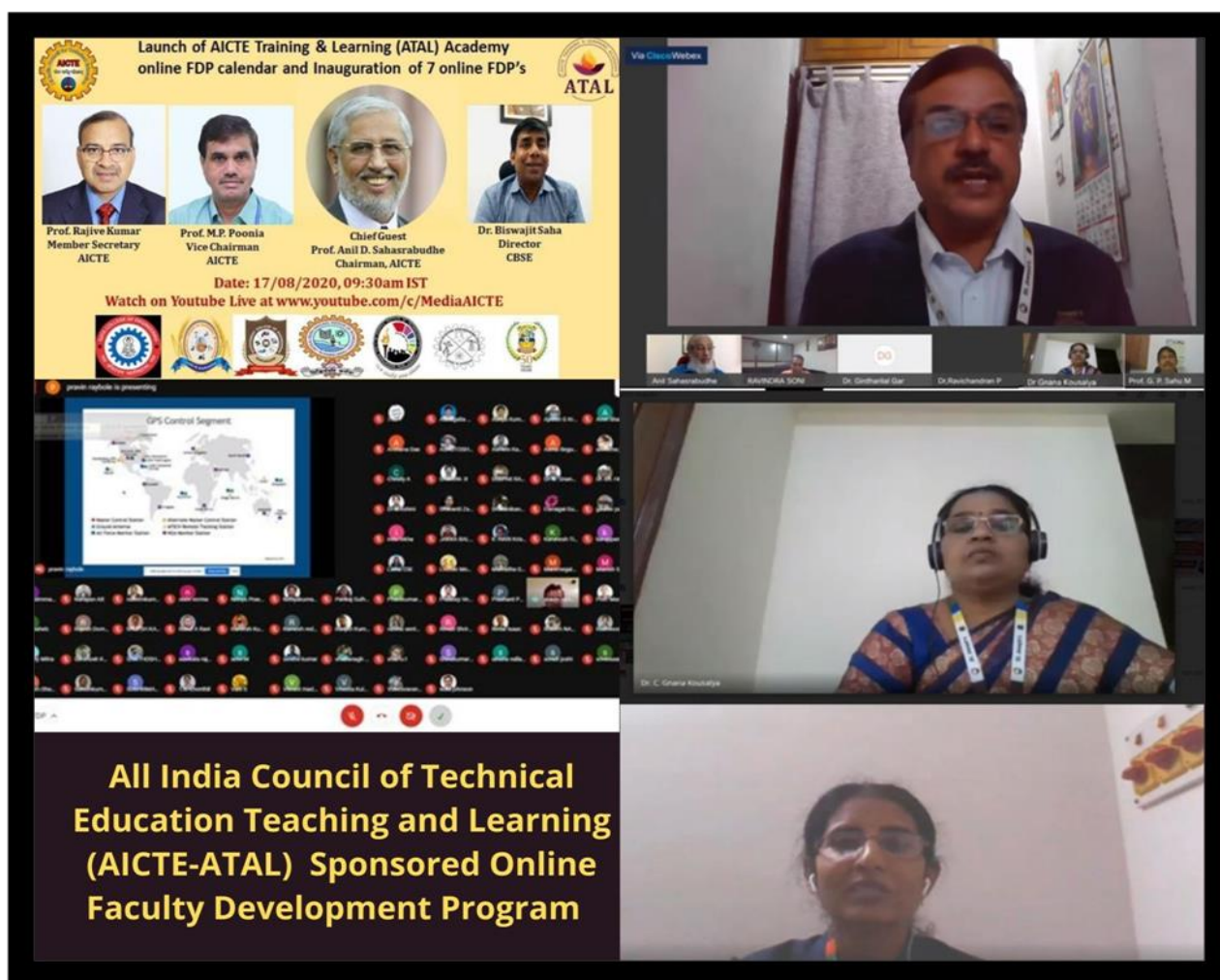
			FPGA based Digital Design with HDL-Phase-II	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	08/02/21 to 13/02/21	6 days
			FPGA based Digital Design with HDL-Phase-III	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	22/02/21 to 27/02/21	5 days
			Emerging trends and Research challenges in Next generation wireless Network	Kongumadu College of Engineering and Technology(Autonomous)	29/03/21 to 03/04/21	6 days
			FPGA based Digital System Design with HDL(Phase IV)	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	03/05/21 to 08/05/21	6 days
			Artificial Intelligence and 5-G Communication Technology	Poornima College of Engineering Jaipur	26/04/21 to 01/05/21	6 days
			Sensor Technology	North Eastern Hill University, (AICTE-ATAL)	08/02/21 to 12/02/21	5 days
			Online International Training Program on Research Manuscript Drafting and Publishing	Eudoxia Research Centre	06/07/20 to 06/08/20	30 days
8.	Dr.Samayaraj Murali Kishanlal	Associate Professor	Artificial Intelligence	Lendi Institute of Engineering and Technology, Kakinada.	22/05/20 to 26/05/20	5 days
			Machine Learning	Internshala	25/01/21 to 08/03/21	-
9.	Mr.M.Senthilmurugan	Associate Professor	Research and Development in Wireless Communication Application using NetSim and MATLAB	Pondicherry Engineering College, Puducherry	02/11/21 to 07/11/21	6 days
			Recent Trends on Green Energy	GMR Institute of Technology, Rajam	12/10/21 to 16/10/21	5 days
10.	Dr.M.V.Karthikeyan	Assistant Professor	Wearable Devices	Anna University, Chennai	15/2/21 to 19/2/21	5 days
11.	Mrs. S.Tephillah	Assistant Professor	Ground Breaking Technologies	Panimalar Institute of Technology, Chennai	1/6/20 to 7/6/20	7 days

			Machine Learning Techniques	Saveetha Engineering College, Chennai	13/7/20 To 17/7/20	5 days
			Sensors Technology	St. Joseph's Institute of Technology, Chennai (AICTE & ATAL SPONSORED)	17/8/20 To 21/8/20	5 days
			3 days FDP	Programme Monitoring Office – Innovation * Entrepreneurship Development Programme	20/01/21 to 22/01/21	3 days
			Artificial Intelligence and 5G communication Technology	Poornima College of Engineering, Jaipur	26/4/21 to 1/5/21	6 days
12.	Mrs.G.Akilandeswary	Assistant Professor	Artificial Intelligence & Deep Learning	Model Institute of Engineering & Technology Jammu	27/01/21 to 02/02/21	7 days
13.	Mr. D.Suresh	Assistant Professor	Recent Trends in Information & Communication System	Karpagam College of Engineering, coimbatore	16/06/20 To 20/06/20	5 days
			Recent Trends in Wireless Communication Technologies	Bangalore Institute of Technology, Bangalore	03/08/20 to 05/08/20	3 days
			Deep Learning and its Applications	Malla Reddy Engineering college, secunderabad	07/12/20 to 12/12/20	6 days
			Research and Development in Wireless Communication Application using NetSim and MATLAB	Pondicherry Engineering College, Pondicherry	23/11/20 to 28/11/20	6 days
			Digital Image Processing	NPTEL-AICTE FDP	12 Weeks	
			Internet of Things and Applications in 5G	Easwari Engineering College, Chennai	05/01/21 to 09/01/21	5 days
14.	Mrs.P.Princy Magadline	Assistant Professor	Learn, unlearn & relearn- Effective Quality Research Writing	Patrician College of ARTS & Science	22/06/20 To 28/06/20	7 days
			VLSI Physical Design using cadence Innovus Tool	St. Joseph's College of Engineering Chennai.	20/07/20 to 24/07/20	5 days
15.	Mrs. A.Marina Christina Blessy	Assistant Professor	Recent Trends in Communication Engineering	NIT, Puducherry	07/09/20 to 11/09/20	6 days
			Emerging trends and research challenges in next generation wireless networks sponsored by AICTE	Kongu nadu college of engineering	29/03/21 to 03/04/21	5 days

			Artificial Intelligence and 5G communication Technology	Poornima College of Engineering, Jaipur	26/4/21 to 1/5/21	5 days
16.	Mr.T.Siva	Assistant Professor	Digital Image Processing	NPTEL-AICTE FDP	12 Weeks	
17.	Mr. A.Dineshkumar	Assistant Professor	Online Teaching-Learning Process using ICT Tools for Education 4.0	St. Vincent Pallotti college of engineering & Technology, Nagapur	08/06/20 to 13/06/20	6 days
			Recent Trends in Wireless Communication Technologies	Bangalore Institute of Technology, Bangalore	03/08/20 to 05/08/20	3 days
			Digital Image Processing	NPTEL-AICTE FDP	12 Weeks	
			Dielectric Resonator and its Applications	NIT, Silchar	20/11/20 to 24/11/20	5 days
18.	Mr.K.Immanuel	Assistant Professor	Online Teaching-Learning Process using ICT Tools for Education 4.0	St. Vincent Pallotti college of engineering & Technology, Nagapur	08/06/20 to 13/06/20	6 days
			Digital Image Processing	NPTEL-AICTE FDP	12 Weeks	
			Recent Trends in Wireless Communication Technologies	Bangalore Institute of Technology, Bangalore	03/08/20 to 05/08/20	3 days
19.	Mr.J.Bino	Assistant Professor	STTP- Electrical Power System	ARYA College of Engineering & I.T, Jaipur	19/10/2020 to 24/10/20	5 days
			Multidiscipline research innovation in engineering, science and technology for sustainable development	Bipin Tirupathi Kumaon Institute of Technology, Uttarakhand.	26/10/20 to 07/11/20	14 days
			Research and Development in Wireless Communication Application using NetSim and MATLAB	Pondicherry Engineering College, Pondicherry	02/11/20 to 07/11/20	6 days
			Building Intelligent Applications with Deep Learning using Pytorch	Rajalakshmi Institute of Technology, Chennai	12/10/20 to 17/10/20	6 days
			Internet of Things	Kongu Engineering college, Erode (AICTE & ATAL SPONSORED)	21/12/20 to 25/12/20	5 days
			Wearable Devices	Anna University, Chennai	15/2/21 to 19/2/21	5 days
			Emerging trends and Research challenges in Next generation wireless Network	Kongunadu College of Engineering and Technology(Autonomous)	29/03/21 to 03/04/21	6 days

## Events conducted in our college

Event	Topic	Date
<b>Conference</b>	6 <sup>th</sup> International conference on Recent Trends in Engineering and Technology	23.08.2021 To 25.08.2021
<b>FDP</b>	<b>Six days International online Faculty Development Program</b> on the topic <b>Perspectives of Artificial Intelligence Applications</b>	27-07-2020 To 01-08-2020
	Five days <b>All India Council of Technical Education Teaching and Learning (AICTE-ATAL)</b> sponsored <b>online Faculty Development Program</b> on the topic “Sensors and its Application in Navigation systems in Marine and Defence Environment” <b>with a Fund of Rs.93000/-</b>	17-08-2020 To 21-08-2020
<b>Workshop</b>	3-Days International level <b>Virtual workshop on “Antenna Design</b>	13.08.2020 To 15.08.2020
	<b>IEEE International Workshop on Robotics and Photonics</b>	17.08.2020 To 20.08.2020



Five days **All India Council of Technical Education Teaching and Learning (AICTE-ATAL)** sponsored **online Faculty Development Program** on the topic “Sensors and its Application in Navigation systems in Marine and Defence Environment” **with a Fund of Rs.93000/-**

## *Memorandum of Understanding*



### **1. PANTECH PROLABS INDIA Pvt. Ltd,**

Our College has signed MoU with Pantech ProLabs by Mr. MALAIYAPPAN Director, PANTECH PROLABS INDIA Pvt. Ltd, Chennai. The objective is to arrange industrial visit and project guidance for our students. Through this MoU Guest lectures, workshops, seminars and value-added course has been conducted for II, III and IV-year students. Also, In Plant Training (IPT) and Industrial Visit (IV) has been arranged for all the years.

### **2. AROBOT**

Our College has signed MoU with Arobot by Mr M.K. Swaminathan Founder & C.E.O, Arobot, Chennai. The company will provide support in facilitating

- ▲ Workshops & Long-term programmes, FDP, Internship & In plant training
- ▲ Joint R&D Project Development & Facilitation & Value-Added Program per year

### **3. Rajiv Gandhi Memorial Telecom Training Centre**

Our College has signed MoU with BSNL by Mr G. Kanagaraj, Divisional Engineer, RGMTTC, Meenambakkam, Chennai. The RGMTTC will conducting certified courses, In-plant training, Project works, Seminars, Workshops.

### **4. Regional Telecom Training Centre**

Our College has signed MoU with RTTC (BSNL) by Mrs Nirmala Subramaniam, Principal, Regional Telecom Training centre, Chennai. The RTTC will conduct

- ▲ Online certificate program & Project Guidance
- ▲ In-plant Training & Internship, Employability Skills & Industrial Visit

### **5. CDCE AUTOMATION**

Our College has signed MoU with CDCE Automation by Mr. J. Rajasekar, Head-Automation, CDCE Automation, Chennai. The objective is to arrange Industrial Visit and Project guidance for our students. Through this MoU Guest Lectures, Workshops, Seminars and Value-Added course has been conducted.

### **6. INTERNSHALA**

Our College has signed MoU with Internshala. The prime objective of the company is,

- Provides free student accounts with lifetime memberships
- Provides weekly Internship updates & Online Webinar on Internship preparation.

### **7. MODEL CAREER CENTRE- CII TITAN**

Our College has signed MoU with Model Career Centre- CII Titan. The main objective is, **Professional Skills** -Short term skills-oriented courses to enhance skills and employability, designed in-house, delivered by competent professional with industry & training experience. It would help students gain confidence in appearing the professional corporate world.

- Interpersonal Skills / Customer Service Skills, IT / MS Office / Computer Software
- Business Communication & Professional Etiquette, Banking, Finance & Office Management

**Technical Skills** -MCC suggests training partners for technical skills. The students / candidates / youth needing technical skills can pursue the same on their own, alternatively, MCC will suggest the Training Providers through the Sector Skills Council for authentication of the Training intervention & credibility of the certificates acquired.

### **8. TANSTIA's**

Our College has signed MoU with Tanstia. TANSTIA's role is more of promotional than of demanding. It actively participates in the committees set up by state and Central Governments and promotes the interest of Small and Tiny industries. It sponsors Experts meet and Trade delegations to other countries. It offers valuable guidance for entrepreneurs. It publishes monthly magazine and newsletters for small industries. It organizes Technical and Managerial training programmes to small industries. It has a collaboration agreement with Friedrich Naumann Foundation, Germany to provide additional supporting services through TANSTIA - FNF service center.

### **9. RETECH Solutions Pvt Ltd.**

Our College has signed MoU with RETECH Solutions Pvt Ltd. by **Mr.E.Arunkumar, M.E (PhD), Vice president**, RETECH Solutions Pvt Ltd Chennai. The objective of the company to arrange industrial visit and project guidance for our students. Through this MoU Guest lectures, workshops, seminars and value-added course has been conducted.



### 10. Asimov Global Technologies.

Our College has signed MoU with Asimov Global Technologies by **Mr. Balaji Varadhan, CEO and Founder, Asimov Global Technologies, Chennai**. The purpose of this MOU is to establish a common platform, which facilitates establishment of **Centre for Innovation** initiatives pertaining to the Internet of Things (IoT), Specialization in Robotics and Aero Modelling, 3D printing & Drones.

#### List of MoUs has been signed in our department:

S. NO.	Name of the Organization	Signed Date
1	CII – TITAN Model Career Centre, Chennai	19-07-2018
2	TANSTIA, Chennai	25-07-2018
3	INTERNSHALA, Gurgaon	09-08-2017
4	Pantech ProLabs India Pvt. Ltd, Chennai	03-06-2016
5	National Small Industries Corporation, Chennai	20-09-2016
6	RETECH Solutions Pvt Ltd. Chennai	22-03-2017
7	Rajiv Gandhi Memorial Telecom Training Centre, Meenambakkam, Chennai ( <b>Renewed</b> )	02-09-2015 & 23-09-2019
8	Regional Telecom Training CENTRE (RTTC), Maraimalai Nagar, Chennai ( <b>Renewed</b> )	02-09-2015 & 23-09-2019
9	CDCE Automation, Chennai ( <b>Common</b> )	07-10-2015
10	AROBOT, Chennai	07-06-2012 & 05-06-2015
11	Asimov Global Technologies	08-02-2021 to 07-02-2025



MoU signed with Asimov  
Global Technologies

### *Consultancy work & funded projects*

Our department has expertise in various research areas to provide knowledge and intellectual inputs which are of interest to the industry and other organizations. The following consultancy projects are carried out in our department.

1. Pantech Pro Labs has granted a funded Project for amount of **Rs.2,05,200/-** Titled on “Development of SDR Application with Wireless module” in the academic year 2020-2021.

#### **Principle Investigator:**

Dr. C. Gnana Kousalya  
Professor & Head  
Department of ECE,  
St. Joseph's Institute of Technology, Chennai-119.

#### **Co-Investigator:**

1. Dr.G.Rohini, Professor
2. Dr.P.G.V.Ramesh, Associate Professor
3. Dr.A.Akilandeswari, Associate Professor

The Following proposal applied/granted during the academic year 2020-2021 as given below

S. No	Title of the Proposal / Project Work	Funding Agency	Investigator (s)	Project Value (INR)	Current Status
1.	Early Prediction of Forest Fire Using SEETAKM WSN and IoT	CRG	Dr.C.Gnana Kousalya Dr.G.Rohini	Rs.10,27,000	Proposal Submitted
2.	Post-Accident Alert System Using Client-Server Based Asynchronous Communication Mechanism	CRG	Dr.C.Gnana Kousalya Dr.G.Rohini	Rs.9,54,000	Proposal Submitted
3.	Designing of Underwater Robot for Surveillance of Underwater Structures	MATRICS	Dr.C.Gnana Kousalya	-	Proposal Submitted
4.	Design and development of Optimization Techniques for Digital Micro Fluidic Biochips	MATRICS	Dr.G.Rohini	-	Proposal Submitted
5.	On Design and Investigation of Filtering Antenna for Future 5G/6G mm-Wave Applications	MATRICS	Dr.P.G.V.Ramesh	-	Proposal Submitted
6.	Muscle Fatigue monitoring in COVID patients	SERB-CRG	Dr.J.Jeba Johannah Samuel	Rs.20,20,844	Proposal Submitted
7.	Nanoscale detection of ECG signal for Autism children	SERB-CRG	Dr.G.S.Uthayakumar Dr.D.Sungeetha	Rs.1,16,23,000	Proposal Submitted
8.	Low Cost wearable device for rural women health monitoring, tracking and data acquisition	SERB-POWER	Dr.A.Akilandeswari	Rs.20,85,000	Proposal Submitted
9.	Fabrication of Nano Bio Sensor using Banana waste Material	DST-WMT	Dr.G.S.Uthayakumar Dr.P.G.V.Ramesh	Rs.97,13,000	Under Evaluation
10.	Early Prediction of Forest Fire by implementing WSN and IoT	TNSCST-SPS	Kuralmozhi D, Mira G Dr.C.GnanaKousalya	Rs.10,000/-	Proposal Submitted
11.	Personal Medicine Succour	TNSCST-SPS	Selvamadhavan N, Sanjay M Dr.C.GnanaKousalya	Rs.8,800/-	Proposal Submitted
12.	Smart Mask For COVID-19	TNSCST-SPS	Subhash R, Nikhil Madhavan K A Dr.C.GnanaKousalya	Rs.8000/-	Proposal Submitted
13.	Post-accident alert system using embedded systems and client- server based synchronous communication mechanism	TNSCST-SPS	Vijay S, Suriya Narayanan N V Dr.G.Rohini	Rs.9150/-	Proposal Submitted
14.	Smart Social Distancing Using Jetson Nano	TNSCST-SPS	S.Reuben, A.Vasanthan Dr. A. Akilandeswari	Rs.6,250/-	Proposal Submitted
15.	Telepresence Visitor BoT	TNSCST-SPS	ThiruSenthilMurugan. K, Sivanesh. S Dr. A. Akilandeswari	Rs.7,000/-	Proposal Submitted
16.	Detection of White Blood Cancer cells using Image Processing	TNSCST-SPS	Sanjana. K E, Saraswathy.AR Dr. J. JebaJohannah	Rs.8,000/-	Proposal Submitted

17.	Invention Of Third Vision For Safeguarding Women With Live Surrounding Update in a Mobile App	TNSCST-SPS	A.Padma Priya, J.P.Lenisha Malar Dr. J. Jeba Johannah	Rs.10,000/-	Proposal Submitted
18.	Cloud Based Virtual Analysis of Patient and Automatic Assistance Using ML	TNSCST-SPS	Isaiyamuthu S , Bavithra J Mrs.S.Tephillah	Rs.10,000/-	Proposal Submitted
19.	Intelligent Bicycle Race Monitoring System Using IoT	TNSCST-SPS	Dharani.V Mr.J.Bino	Rs.10,000/-	Proposal Submitted
20.	Mobile WiFi Setup using Mobile Application and Selenium	TNSCST-SPS	Boshana. M Mrs.S.Tephillah	Rs.9670/-	Proposal Submitted
21.	Upgrading ATM Security using Finger Vein Authentication and Anti-theft module	TNSCST-SPS	Srinivedha.R, Sorna Saratha Devi P.V Mrs.G.Akilandeswary	Rs.10,000/-	Proposal Submitted

## ***CENTRE FOR EXCELLENCE***

Centre for Robotics and Automation is established in collaboration with the CDCE Automation that also acts as MSME authorized Nodal Centre and Centre of Excellence for IoT and Wireless Sensor Networks in collaboration with Pantech ProLabs India Pvt. Ltd. which serve as the arenas where budding engineers develop and design their own ideas as projects useful to the society.

Name of the Company	Name of the Lab	Facility available in Lab for Project	Key Outcomes
<b>CDCE AUTOMATION</b>	Centre for Robotics and Automation	LVDT Trainer Kit, Load Cell Trainer Kit, Sensors and Control Kit, PLC & HMI Trainer Kit, Servo Motor Trainer Kit, VFD Trainer Kit	Design of Intelligence for IRONMAN with Speech to Text Conversion based Answering System
			Fool Proof Centralized Voting Machine Using Automation Systems (INAE Award)
<b>PANTECH PROLABS INDIA PVT. LTD.</b>	Centre of Excellence for IoT and Wireless Sensor Networks	Node MCU, ESP 8266 Wifi Module, Arduino Uno, Raspberry Pi 3, Interface & Relay Boards Different Sensors, WSN Device, HP 280 G2MT	Smart Kitchen with inventory managing and monitoring using IoT (IEEE Student Project Funding)
			Smart Bag (INAE Youth Conclave Award)
			Versatile Insole Monitoring (TNSCST Award)



**Inauguration of Centre  
for Excellence – Robotics  
and Automation**

## *Advisory Bureau For Higher Studies*

The Advisory Bureau for Higher Studies (ABHS) is functioning as a separate wing with the prime notion to serve the student community for getting higher studies admission in India and abroad. The main objective of ABHS is to enable the students to prepare for the tests like GRE, TOEFL, GMAT, IELTS, GATE, CAT etc. ABHS has the latest information, books and CDs regarding GRE, TOEFL, GMAT, IELTS, GATE and CAT. For the benefit of the Hostel students, coaching classes for the qualifying exams like GRE, TOEFL, GATE and CAT have been arranged in the campus.

ABHS also organises guest lectures and seminars to equip the students for pursuing higher studies in India and abroad. Various Workshops and seminars are handled by resource persons from IDP, USIEF, Cambridge University, British Council and other higher studies agencies. Apart from this, the students are exposed to the first-hand information from Associate Director, Deans, Department heads and faculties from many educational institutes like University of California, University of Pennsylvania Graduate school of Education, Swinburne University, University of Sussex, Illinois Institute of Technology, Rochester Institute of Technology, SUNY and Southern Illinois University. The Academicians have visited our campus and also briefed the students about the application process, scholarships and requirements in their respective universities.

Our students have got admission into various top-ranking universities in different countries like USA, Australia, UK, New Zealand, Canada, Germany, Sweden and Singapore. To name a few, German Institute of Science and Technology, Karlsruhe Institute of Technology, Germany, Queen's University, Canada, Deakin University, La Trobe University, Australia, University of Edinburgh, Scotland, Wayne State University, University of New Haven, Texas Tech, Texas A & M University, University of Bridgeport, University of Massachusetts, Lowell, USA, Kedge Business School, France, University of Central Lancashire, England, James Cook University, Singapore, Clemson University, UK, etc. The number of students who have got admission for higher studies during recent years is as follows:

S. no	Academic Year	No of students*
1.	2020- 2021	33**
2.	2019- 2020	51
3.	2018 – 2019	77
4.	2017 – 2018	61
5.	2016 – 2017	59
6.	2015 – 2016	55

*\*This is the number of students who have gone for higher education immediately after the completion of their course.*

*\*\* The admission process is still going on.*

Apart from this many students are pursuing higher studies in India like NITs, IITs, IIMs, and IIPM. The Business English Certificate (BEC), a certification from Cambridge University is a qualification in English for work. It is given under three levels - Preliminary, Vantage and Higher. All the second-year students are given BEC training for a week and then they take the BEC examination, conducted by the Cambridge University in our campus. For the past eight years, our college is the best preparatory centre and we have been awarded as one of “**South Asia’s best 25 Preparation Centres**” by Cambridge assessment English, part of Cambridge University, UK.



## The List of students who received the offer letter for higher studies [2016-2020 Batch]

S. No	Name of the Student	Degree	Name of the Institution	Country
1	Aravindh N	M.S	New Jersey Institute of Technology, Newark	United States
2	Arun Kumar G	M.S	New Jersey Institute Of Technology, Newark	
3	Annai Iyerlin W	M.E	Madras Institute of Technology, Chennai	India
4	AnnaiSherlin W	M.E	Madras Institute of Technology, Chennai	
5	Kezia S	M.Tech	Karunya University, Coimbatore	
6	Krishna Kanth G	MBA	SRM Institute of Science and Technology	
7	Raghul S R	MBA	SRM Institute of Science and Technology	
8	Vaishali M	M.Tech	Vellore Institute of Technology, Chennai	

### *Placement orientation program*

The Centre for Training and Placement has conducted Aptitude crash course for first year students by SMART. Placement orientation program-II (POP II) was conducted for the final year students by SMART and trained them on soft skills, quantitative aptitude skills etc., to prepare them for placement recruitments. Also POP III, a company specific training programme was conducted by Six Phrase to crack Cognizant, Infosys, and Wipro test pattern.

The Centre for Training & Placement conducted Online aptitude assessment tests on every week for all the students through the skill rack portal.

### *Communication Skill Enhancement Program*

Centre for Training and Placement of St Joseph's is largely responsible and committed towards the identification and catering to the need of training of students so that they are able to develop a good personality; and assist them to find right job and help them place in right companies before they pass out. We realize that in order to convert a raw student into employable graduate, several behavioural attributes need to be addressed in addition to the development of technical skills. Some of the behavioural attributes are good communication skills, developing positive attitude towards work, and understanding of moral and ethical values. Every academic year, our college has taken an initiative to improve the communication skill of the students by organizing 48 hrs Communication skill enhancement program.

The aim of this program is to empower our students to take up the future campus recruitment with confidence. All the first year students are evaluated for communication skill by the expert committee. Based on the evaluation students are categorized into **three levels** and students are given appropriate training. This communication enhancement program is conducted by corporate trainers from **Strides & Winspire**.



## ***CAMPUS PLACEMENT 2020 - 2021***

We are proud to inform that **1351** students have been selected by **the Core / Product Company & Day 1** sharing companies (Cognizant, Infosys, Wipro, ZOHO, Thoughtworks, Zifo, Kaar& Top freshers) & companies like Tech Mahindra, Mphasis, HTC Global Services, Verizon, Info Trellis, Plintron, Mindtree, Tata communications, Wolters Kluwer, Excelencia, Customer Analytics, Billiontags, Spinco, ICICI securities, BNY Mellon, Naukri, Avacend, Bajaj capital, VVDN, K7, HIL, Indusind Bank, ICICI Prudential, VIVO Phones, Huawei, Valued Epistemics, Sosaley, MRF, HpInc, Manali petrochemicals, SMART, HCL-Infra, OMICS, BNPParibas, HCL, Sanmar, VWR, Emerson, Shasun, Amazon, Gislen, Captronic, Kone, Ideas2IT, Artech, SEW-Eurodrive, Krishcofolabs, Guptapower, Flextronics, E-Con systems, Samsung, Sitel, HDFC Bank, Bosch, Aithent, Zycus, Eurocon tiles, Aricent & Rjpinfotek through campus recruitment drive held for the academic year **2020-21** with an annual salary package, starting from **3.5 Lakhs to 8.3 Lakhs** for UG & PG students.

### **TOTAL OFFERS: 1351**

We would like to congratulate the students for being selected. We would also like to appreciate the HODs, Staff Members and Placement coordinators of every Department for their sincere efforts.

**Number of Individual Offers : 1351**

**St. JOSEPH'S COLLEGE OF ENGINEERING: 964**

**St. JOSEPH'S INSTITUTE OF TECHNOLOGY: 387**

<b>COURSE WISE</b>			
<b>St. Joseph's College of Engineering</b>		<b>St. Joseph's Institute of Technology</b>	
<b>Branch</b>	<b>Total</b>	<b>Branch</b>	<b>Total</b>
CSE	140	CSE	89
IT	134		
ECE	129	IT	41
EEE	115		
MECH	115	<b>ECE</b>	<b>73</b>
CIVIL	21		
EIE	95	EEE	79
ICE	28		
CHEM	35	MECH	77
BIO	41		
ME & M.Tech (All Branches)	13	CIVIL	28
MBA	98		
<b>Total</b>	<b>964</b>	<b>Total</b>	<b>387</b>

## 2020 – 2021 CAMPUS PLACEMENT

We are glad to inform that **1351 students** have been recruited through the campus recruitment processes by **225 companies** in the academic year **2020 - 2021**. - as on **8th October, 2021**.

**TOTAL OFFERS : 1351\***

**Engineering : 964\***

**Technology : 387\***

COMPANY DETAILS			
42HERTZ SOFTWARE	FLATIRONS SOLUTIONS	MK AUTO COMPONENTS	SOPRA STERIA
777 TRADES	FRESHWORKS	MONEXO FINTECH	SOSALEY
ABYETI TECHNOLOGIES	FSS	MOUNT BLUE TECHNOLOGIES	SPOOKFISH
ACTIVE INTELIIGENCE	Full Creative	MPHASIS	STRADEGI
ADHYAS SOFTWARE	G-CUBE SOLUTIONS	MR SOFTWARES	SWIGGY
ADOBE SYSTEMS	GEEKYANTS	MRF	SYMANTAC
ADP PVT LTD	GISFY	MUSIGMA	TATA COMMUNICATIONS
AGILYSYS	GO FRUGAL	NAPIER HEALTHCARE	TCS
AJIRA	GOLDMAN SACHS	NAUKRI	TEACHFORINDIA
ALCHIMICA	GSPANN TECHNOLOGIES	NETAXIS IT SOLUTION	TECHUGO
ALTIMETRIK	GUESTHouser	NIIT LTD	TECMAESTRO
AMAR UJALA	GUVI	NINJACART	TEKION
AVICONN SOLUTIONS	HELLO PARENT	NITTANY CREATIVE SERVICES	TENMILES
BAJAJ CAPITAL	HEXAVIEW TECHNOLOGIES	NKATS GLOBAL TECH	THAPOVAN INFO SYSTEMS
BANKBAZAAR.COM	HEXAWARE TECHNOLOGIES	NUTPAM	TIMES INTERNET
BLUETECH	HFFC	ODESSA	TNQ
BNP PARIBAS	HOST ANALYTICS	ODYSSEY	T-SYSTEMS ICT INDIA
BOSCH	HSBC	OMICS	TUBE INVESTMENTS
BRUHAT LOGISTICS	IBM	OPTIMUS INFORMATION INC	VALUE LABS
CADTECH INDIA	ICICI SECURITIES	ORIGIN LEARNING	VERITAS FINANCE
CALOTROPIS SOFTWARE	IDBI FEDERAL LIFE INSURANCE	PINNACLE WORKS	VERIZON
CLOFUS INNOVATIONS	IN TIME TEC	PLEASANT HEALTH CARE	VERNALIS
COCUBES	INDUSTRY ARC	POSITIVENAICK	VIJAY RAJA HOMES
CODEBRAHMA	INFINITI SOFTWARE	QBRICS	VIRTUSA
CODING MART	INFOSYS	QMAX SYSTEMS	VISUAL BI
COGNIXIA	INPUT ZERO TECHNOLOGIES	QUAPT TECHNOLOGIES	VSAN SENSORS
COGNIZANT	INTELLECT	RESEARCH SERVICES	VVDN TECHNOLOGIES
COMITS AG PVT LTD	INVENTION LABS	RGF-PROFESSIONAL	VWR
CONVERTCART	JARO EDUCATION	RHOMBUS LABS	WEBALLURES TECHNOLOGIES
CYIENT	JRA-ANALYTICS	ROBERT BOSCH	WEBVILLE TECHNOLOGY
DATA PATTERN	JUSPAY	SAINT GOBAIN	WEST AGILE LABS
DBS BANK	JUSTDIAL	SAMARTH	WHIRLDATA SCIENCE
DHL LOGISTICS	K7 COMPUTING	SAMSUNG R&D	WIPRO
DIGIRYTE	KAAR TECHNOLOGIES	SANMAR	WIZELY
DISPATCH TRACK SOFTWARES	KELTON TECHNOLOGIES	SCAPIC INC	YELLOW MESSENGER
DOODLEBLUE	KREA EKNOWLEDGE	SCHUECO	ZALARIS
DXC TECHNOLOGIES	LAVA INTERNATIONAL	SEW EURODRIVE	ZIFO R&D
E-CON SYSTEMS	Lnt INFOTECH	SIEMENS	ZOHO
EDLOCUS SOLUTIONS	LUCID TECHNOLOGIES	SIGARAM TECHNOLOGIES	SYNTEL
ELITISTS	MAARGA SYSTEM	SOFTCRYLIC	TORRY HARRIS
EQUITAS BANK	MASTECH INFOTRELLIS	SOFTEON	FOUR KITES
EVENTJINI	MCS SOLUTIONS	SOLITON	COGNIZANT-NEXT
EXPEDITORS	MELSS	SOLUTIONCHAMPS TECHNOLOGIES	MAARGA
FABULYST	MIND TREE	SONY	SUEZ
ASPIRE SYSTEMS	NTT DATA	MBIT WIRELESS	EXCELACOM
DATA MATICS	Mr.Cooper	RELIANCE	PATHCARE
BIG BAZAAR	MAKERDEMY	RANE	JBM AUTO
ENA GAME STUDIO	VALUED EPISTEMICS	TEAM LEASE	IONIXX
SPIC Limited	YES BANK	NETTYFISH NETWORKS	LENNOX
ZOHO - Technical Support	SONATA	EMERSON	KBR
THOUGHTWORKS	VSAN	S10	ATTRA
PAYPAL	ZOOMRx	MULTICOREWARE	ZILKER
AVASOFT	QUBE CINEMAS	EMBEDUR	DIVERTA
MENTIS	NEWGEN	LATENTVIEW	EDIFICE
CGI	KEYENCE	HP	LADDER SURVEY
ATOS SYNTEL	ICA SPECIALTIES	KOOGLE TECH	RAKSHA TECH
AD2PRO MEDIA	NATARAJ OIL MILLS	PULSES	ECO LAB
SKILL-LYNC	BAJAJ ALLIANZ	OPPO MOBILES	SAI DIGITAL
TECH MAHINDRA	MCDERMOTT	BNY MELLON	4 I APPS
INDIA CEMENTS	SIX RED MARBLES	VNPA ENTERPRISES	GEO ADITHYA
HCL	RENAULT NISSAN	MATRIMONY	CISCO
SCHNEIDER ELECTRIC	TEMENOS	RIBBON COMMUNICATION	SIRIUS

## ***PLACEMENT DETAILS OF ECE 2020-2021***

The Management and faculty of Electronics and Communication Engineering Department congratulate the following students for getting placed in reputed companies through campus interviews. We wish them all the very best for their future endeavors.

### **Details of Students Placed in 2017-2021 Batch**

Sl.No	NAME OF THE CANDIDATE	COMPANY PLACED	SALARY (LPA)
1.	AGATHIYAN A	COGNIZANT	400000
		INFOSYS	360000
2.	AISHWARYA B	AVASOFT	400000
3.	AKHILNATH KRISHNA S A	COGNIZANT	400000
4.	AMALIN ASHA E	COGNIZANT	400000
		INFOSYS	360000
		TCS NINJA	400000
		ACCENTURE	450000
5.	ARAVIND BALAJI M	INFOSYS	360000
6.	ARAVINDH S	STRAIVE	350000
7.	ASHLEY BERIN J	COGNIZANT	400000
8.	CASANDRA JOSEPHINE	AVASOFT	400000
9.	DEVISHREE S	COGNIZANT	400000
		ZOHO (Internship Offer**)	15000 /Month
		TCS	400000
		ACCENTURE	450000
10.	DHARANI U	INFOSYS	360000
11.	EBENEZER R	COGNIZANT	400000
12.	HARITAA K R	SYNERGY MARITIME PVT LTD	275000
13.	IMRAN AHMED R	MINDTREE	400000
		TCS NINJA	400000
14.	JAYANTH ARVINDH S	TCS NINJA	400000
15.	JOY JAMES A	COGNIZANT	400000
16.	KARTHIKA DEVI S	MINDTREE	400000
17.	KAVYA G	COGNIZANT	400000
18.	KEERTHANA R	COGNIZANT	400000
19.	KEVIN BRADLEY M	MU SIGMA	400000
20.	MEGHNA P	COGNIZANT	400000
21.	MIRA G	FULL Creative (Internship)	350000
22.	MITHRA JAGADEESAN	COGNIZANT	400000
		INFOSYS	360000
		TCS NINJA	400000
23.	NIKHIL JOHN THOMAS J	CYBER SECURITY WORKS	500000
24.	NIKHIL MADHAVAN K A	COGNIZANT	400000
25.	PHAVITHRA B	COGNIZANT	400000
		INFOSYS	360000
		TCS	400000
		COGNIZANT (sales force)	520000
26.	RAKSHANA R	COGNIZANT	400000

		TCS	400000
27.	RENUKA E	COGNIZANT	400000
28.	SANJANA K E	KYUNGSHIN INDUSTRIAL MOTHERSON Ltd	11000 /Month
29.	SANJAY M	COGNIZANT	400000
		TCS	400000
30.	SARADHA M	HCL Technologies	350000
31.	SARASWATHY A R	INFOSYS	360000
		COGNIZANT	400000
32.	SELVAMADHAVAN N	MINDTREE	400000
33.	SHARINE R	CAPGEMINI	380000
34.	SHERLIN J	FULL Creative (Internship)	350000
		TCS NINJA	400000
35.	SHIVA SANTHOSH A	QSPIDER	220000
		EXCELLACOM	300000
36.	SIMON DANIELRAJ S	INFOSYS	360000
		COGNIZANT	400000
37.	SIVAGNANA SOWNDARYA R	COGNIZANT	400000
38.	SIVANESH S	INFOSYS	360000
		COGNIZANT	400000
		ZOHO (Internship Offer**)	15000 /Month
39.	SORNALATHA J	NTT DATA	350000
40.	SRI DHARSHAN V S	INFOSYS	360000
41.	SRI NIVEDHA R	COGNIZANT	400000
42.	SUBHASH R	TCS NINJA	400000
		TECH MAHENDRA CERIUM SYSTEMS	310000
		QSPIDER	220000
43.	SUBHAS SHINI R	COGNIZANT	400000
44.	SWATHI G	COGNIZANT	400000
		TCS NINJA	400000
45.	SWETHA ANNIE A	NTT DATA	350000
		QSPIDER	220000
46.	TAMILARASI S	KYUNGSHIN INDUSTRIAL MOTHERSON Ltd	11000 /Month
47.	THIRU SENTHIL MURUGAN K	ZOHO	460000
		INFOSYS	360000
		COGNIZANT	400000
		TCS NINJA	400000
48.	VARSHA S	COGNIZANT	400000
		TCS NINJA	400000
49.	VEDHIKA S	COGNIZANT	400000
50.	VIGNESH KUMAR R	HCL Technologies	350000
		INFOSYS	500000
51.	VIJAY S	COGNIZANT	400000
		INFOSYS	360000

## ***CAMPUS PLACEMENT 2021-2022***

We are proud to inform that **1092** students have been selected by **Product / Core Companies** (Kaar Technologies, ZOHO, HCL(Embedded Systems), Stigmata, Sirius, Thoughtworks, Soliton, Eurofins, Multicoreware, Magzter, Zenus, Bruhat Logistics, Brillio, CAD DESK, Renaissance, Mr.Cooper, e-con,Zifo,Infotrellis, Wipro & Cognizant) through campus recruitment drive held between May to Aug for the academic year **2021-22** with an annual salary package, starting from **3 Lakhs to 9.5 Lakhs** for UG & PG students.

### **2021-22 BATCH CAMPUS PLACEMENT**

**TOTAL OFFERS: 1092\***

**Engineering: 724\***

**Technology: 368\***

*\*As on Oct 08th, 2021*

We would like to congratulate the students for being selected. We would also like to appreciate the HODs, Staff Members and Placement coordinators of every Department for their sincere efforts.

### **2020 -21 BATCH CAMPUS PLACEMENT**

**TOTAL OFFERS: 1351\***

**Engineering: 964\***

**Technology: 387\***

*\*As on Oct 08th, 2021*

***Centre for Training & Placement***



## Placement Training Schedule - Academic Year 2021 – 2022

### PLACEMENT TRAINING PROGRAMME – 1

FROM I to VI SEMESTERS – FOR ALL STUDENTS

SEM	ACTIVITY	ELIGIBILITY	TRAINING PARTNER	DURATION (In Days)	DATES
I	Communication skill Enhancement	ALL	STRIDES / WINSPIRE	6	Class Room
II	Aptitude Crash Course	ALL	SMART	6	Class Room
III	BEC Training	ALL	STRIDES / WINSPIRE / SIX PHRASE	6	Class Room
IV	C Programming	ALL	FINE MIND	6	Class Room
V	Advanced C Programming	ALL	MY SLATE	6	Class Room
VI	Department Specific Value Added Course	ALL	EXTERNAL VENDOR	6	Class Room

### PLACEMENT TRAINING PROGRAMME – 2

FROM V to VII SEMESTERS – FOR ELIGIBLE STUDENTS

SEM	ACTIVITY	ELIGIBILITY	TRAINING PARTNER	DURATION (In Days)	DATES
V	Design Thinking	POP PAID (Total Package worth Rs 12000 – 15000 )	WILEY	30 hours	Virtual
VI	Aptitude		WILEY	30 hours	Virtual
	Data Structures		STELLAR	40 hours	Virtual
	AMCAT ASSESSMENT I		MY SLATE	40 hours	Virtual
VII	Placement Online Test		SKILL RACK		Virtual
	Future Skills		EXTERNAL VENDOR	30 hours	Virtual
	Placement Orientation Program II		SMART	6 days	Class Room
	Best Fit Training		MY SLATE	6 days	Class Room
	Code Fit Training		MY SLATE	6 days	Class Room
	CoCubes Online Assessment I		COCUBES	4 hours	Virtual
	AMCAT Assessment II		ASPIRING MINDS	4 hours	Virtual
	AMCAT Assessment III		ASPIRING MINDS	4 hours	Virtual
	CoCubes Online Assessment II		COCUBES	4 hours	Virtual
	Resume Preparation & Mock Interview		TOP FRESHERS		Class Room
	Placement Orientation Program III		MY SLATE	6 days	Class Room

***DEPARTMENT TOPPERS***

A right honor at the right time will have an impact on life forever. The students who have catalyzed their actions into accomplishments by achieving good grades in the University Exam are motivated by the management in different ways by

- ❖ Rewarding **Gold Medalist** with a cash prize of **Rs.50,000/-** and **University Rank holders** wish a cash prize of **Rs.25,000/-** on Graduation Day.
- ❖ Awarding University Rank Holders with Shields on Graduation Day.
- ❖ Honoring the First University Topper from each Department with a special shield incorporating the name of a famous Personality.
- ❖ Issuing extra book bank library cards for semester toppers to enhance learning skills and better understanding.
- ❖ Awarding merit certificates at the end of each semester for subject toppers as well as overall toppers and special lunch for the semester toppers on that day.

### ***TOPPERS – I ECE***

<b>ECE BATCH 2020-2024 (UPTO II SEMESTER)</b>					
<b>S.No.</b>	<b>Name</b>	<b>CGPA</b>	<b>S.No.</b>	<b>Name</b>	<b>CGPA</b>
1.	Sandhiya M	9.56	26.	Aashika R	8.78
2.	Sam Daniel P	9.4	27.	Anisha Matline E	8.78
3.	Arul Priyanka K	9.28	28.	Baipothu Roja	8.78
4.	Akshaya V	9.24	29.	Bhuvanagiri Lalitaditya	8.78
5.	Akshayaa S	9.2	30.	Blessy T	8.78
6.	Akshaya P S	9.14	31.	Harsan Bruno M E	8.78
7.	Elakiya A	9.14	32.	Sabari T	8.78
8.	Dayapule Meenakshi	9.12	33.	Sahana B	8.78
9.	Gayathri S	9.1	34.	Venkatesh T	8.78
10.	Shakthi Gavya V	9.1	35.	Abishek F	8.76
11.	Huldha Y D	9.06	36.	Atchaya N R	8.76
12.	Aishwaryaa A	9.04	37.	Pravin Saran S	8.76
13.	Girish V	8.94	38.	Ganesh V	8.74
14.	Shobikas	8.94	39.	Sivaseelan V	8.74
15.	Santhosh S (1-4-	8.92	40.	Sri Hari S	8.74
16.	Sreesanthosh pandian	8.92	41.	Vimal G	8.74
17.	Angelin Ebisha V	8.9	42.	Serena D R	8.7
18.	Samyuktha K	8.9	43.	Hemanth M	8.68
19.	Gershon Joel A	8.88	44.	Abishek S	8.66
20.	Israa Fathima I	8.88	45.	Bhuvaneswari P	8.64
21.	Aashik Abdullah S	8.84	46.	Sathish Kumar J	8.64
22.	Abilash V	8.82	47.	Rashika K	8.62
23.	Christy Magdalene R	8.8	48.	Fenin B S	8.6
24.	Saravanan S	8.8	49.	Harish Mohan M	8.6
25.	Srivarsha S	8.8	50.	Saran Krishna P	8.6

### ***TOPPERS – II ECE***

**ECE BATCH 2019-2023 (UPTO IV SEMESTER)**

S.No.	Name	CGPA	S.No.	Name	CGPA
1.	Palaniappan A R	9.41	27.	Sharon Rose S	8.79
2.	Rakshini S	9.40	28.	Dhinakaran P	8.78
3.	Maanesh S	9.39	29.	Joshita Beaulin Y	8.77
4.	Monish B	9.36	30.	Reshma B	8.77
5.	Sweetty Kumari D	9.27	31.	Raajkamal L N	8.76
6.	Shruthi V	9.21	32.	Deva Niroshini D	8.76
7.	Hephziba Merlin J	9.19	33.	Ganga G	8.76
8.	Jamuna N	9.19	34.	Aravindh K K	8.75
9.	Priyanka D	9.18	35.	Kailashsundaram S N	8.75
10.	Denisha Priya G	9.17	36.	Lirin S	8.75
11.	Madhu Mitha R	9.11	37.	Kandula Bhargavi	8.73
12.	Haritha Lakshmi S	9.03	38.	Anuja T J	8.72
13.	Harikrishnan V	9.02	39.	Harshini S A	8.72
14.	Santhana Priya G	9.02	40.	Swethaa R	8.66
15.	Swetha S	9.01	41.	Farry J	8.66
16.	Giftty I N	8.99	42.	Archana A	8.65
17.	Sidharthan S	8.97	43.	Subikshan M	8.65
18.	Sneka A	8.95	44.	Uvashree R	8.63
19.	Shruthi A	8.94	45.	Mithileash T	8.63
20.	Pradeepkumar V	8.93	46.	Fredrick Paul A	8.62
21.	Mohamed Safwan S	8.92	47.	Mohaseen P M K	8.62
22.	Preethi R	8.88	48.	Sucheta Guruprasa D	8.61
23.	Sruthi S	8.86	49.	Nithya Ashika S	8.61
24.	Sharmila Devi K	8.83	50.	Madhavan P B	8.60
25.	Anandhan B	8.82	51.	Gnanavel M	8.60
26.	Vishaal G	8.80			

### TOPPERS – IV ECE

BATCH 2017-2021 (UPTO VIII SEMESTER)		
S.No.	Name	CGPA
1.	Swathi G	8.98
2.	Sri Nivedha R	8.82
3.	Varsha S	8.77
4.	Swetha Annie A	8.7
5.	Subhas Shini R	8.7
6.	Keerthana.R	8.69
7.	Sivagnana Sowndarya R	8.66
8.	Devishree.S	8.64
9.	Rakshana R	8.64
10.	Meghna.P	8.63

### TOPPERS – III ECE

BATCH 2018-2022 (UPTO VI SEMESTER)		
S.No.	Name	CGPA
1.	Keerthana A	9.24
2.	Pushadapu Roopika	9.07
3.	Darsani V	8.98
4.	Baby Nivetha D	8.88
5.	Swetha S	8.78
6.	Aparna Devadas	8.76
7.	Pavitharadevy I	8.74
8.	Ketzia J	8.72
9.	Naveenkumar M	8.71
10.	Ganga Devi K	8.7
11.	Hemalatha B	8.66
12.	Shruthi K	8.64
13.	Lakshmi T	8.62
14.	Vikram Chandran B	8.62
15.	Swetha S	8.61

## Student Activities






St. Joseph's acts as a platform for the students to bring out their hidden talents and cultivates experiential learning options outside the classroom. Student activities help, create and foster leadership and involvement opportunities that enhance personal escalation and development.

### *Curricular Activities*

Curricular activities have a number of values like educational value, development of social spirit and worthy use of leisure time. Our students have succeeded reaching greater heights by winning awards and National and International Level Contest, publishing papers in various international journals and conferences. The following are glimpses of few honours achieved by our students.





#### **Tamilnadu State Council for Science and Technology (TNSCST) & IEEE Student Project Funding 2020**

The vision of our department emphasizes that learning is reflected in achievement and growth of the students. **Ms. Aruna Krishnan and Ms. Christy Kingsly** from **IV year, Electronics and Communication Engineering department** have done exceptional work and received the **cash award of Rs.7500/-** for the project **"Versatile Insole Monitoring"** funded by **Tamilnadu State Council for Science and Technology (TNSCST)** under the guidance of **Dr.C.Gnana Kousalya, Professor, HOD, Department of Electronics and Communication Engineering.** **Aruna Krishnan and Christy Kingsly** have also received the **cash award of Rs.3000/-IEEE Student Project Funding 2020** for the project **"Smart Insole: Unobtrusive vitality monitoring System"**

 <p><b>Ms. Aruna Krishnan</b> IVECE</p> 	 <p><b>Ms. Christy Kingsly</b> IVECE</p> 	<p>"The product Versatile Insole Monitoring aims to use sensors, wireless data transmission modules and software for data processing to perform physical activity monitoring and provide bio feedback especially for diabetics and peripheral arterial disease."</p>	 <p><b>"Versatile Insole Monitoring"</b></p>
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#### **Covid-19 National Bio Informatics Online Hackathon for Full Stackers**

COVID 19 Pandemic has infected millions; Challenging Full Stackers to build community health Information system Apps& mobile responsive web for India. Our Students **Mr. Dhanush B, Mr. Bharath S J and Mr. Aravindhan A T** have **won the state level citation** in Covid-19 National Bio Information online Hackathon for Full Stackers organized by Anna University, BIT Campus, Trichy & All India Council of Technical Education(AICTE).

S.No	Name of the student			Project Title
1.	 <p><b>Dhanush.B</b> III ECE</p>	 <p><b>Bharath S J</b> III ECE</p>	 <p><b>Aravindhan A T</b> III ECE</p>	 <p><b>Life care</b></p>

#### **VERBAL MENTION AWARD**

**S. Kamalesh** from the **Department of Electronics and Communication Engineering** has secured the **FIRST place** in the International Conference conducted by **Ecliptic Model United Nations**. The **United Nations Conference** was conducted in **New Delhi** from participants over different parts of the world such as Pakistan, Oman, Africa, Indonesia and USA. He was addressing the question of usage of **Lethal Autonomous Weapon Systems and Drones** in armed conflicts with a special emphasis on Artificial intelligence and its implications.



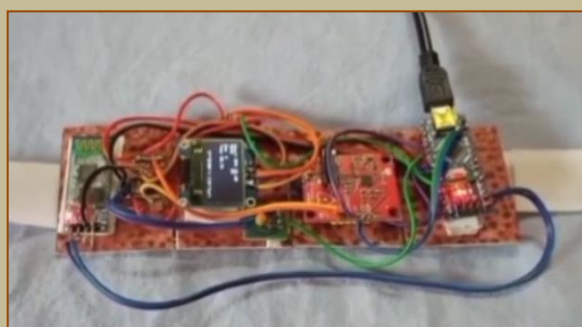
**S. Kamalesh**  
**II ECE**



## AICTE-VISHWAKARMA AWARDS-2020



Team	: 1. Dhanush.B, 2. Aravindhan.A.T, 3. Bharath S J 4. Sri Nivedha.R
Year of Department	: III and IV year ECE
Title of the Project	: Life care- Barriers in accessing adequate health care services
Mentor	: Dr.C.Gnana Kousalya - HOD/ECE
Organized by	: All India Council for Technical Education (AICTE), Ministry of Human Resource Development (MHRD), Govt. of India.
Title of the Competition	: AICTE-VISHWAKARMA AWARDS-2020
Domain	: Health care Domain
Title	: Life care- Barriers in accessing adequate health care services



**Selected for Regional level Convention for Project Presentation**

## NATIONAL INNOVATION CONTEST 2020



Institution's Innovation Council (IIC) - MoE's Innovation Cell is organizing 2nd edition of IIC National Innovation Contest 2020 for all IIC Institutes. The National Innovation Contest is providing 360-degree cycle of learning and understanding the process of innovation and start-up. **Two** batches from the **Department of Electronics and Communication engineering** have been selected for the second level of prototype presentation.



**Bharath.S.J  
III ECE**



**Dhanush.B  
III ECE**



**Aravindhan.A.T  
III ECE**



**K.E.Sanjana  
IV ECE**



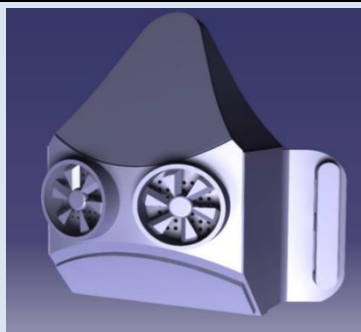
**Sri Nivetha.R  
IV ECE**



**"Automatic Handsanitisation and doorcontrol system"**



**R. Subhash  
IVECE**



**" Smart Mask For Covid 19"**

## Big Data Boss – Season-2

Our **IV year students** got **Runner up prize** worth **Rs.5000/-** in **Big Data Boss – Season 2**, a back to back 3 days of Kollywood prediction, Gamification and Analytics Virtual Hackathon conducted by TactLabs, Toronto, Canada from 14<sup>th</sup> August 2020 – 16<sup>th</sup> August 2020.



**Hari Krishnan M  
IVECE**



**Jaya Kumar K  
IVECE**






## Toycathon 2021

**Toycathon 2021** is an inter-ministerial initiative organized by Ministry of Education's Innovation Cell with support from All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting. Three batches from our department have been short listed to participate in the **grand finale** for their innovative ideas.

S.No	Name of the students		Project Title
1.	 Sridaran K - III ECE	 Sivaram P - III ECE	 <b>Friday the speaking BOT</b>
	 Shruthi K - III ECE	 Shanthini K - III ECE	
2.	 Yasmin Immaculate S III ECE	 Yogapriya T III ECE	 <b>Fairy Teller Toy</b>
	 VikramChandran B III ECE	 Sulaiman S III ECE	
3.	 AshwinVenkat II ECE	 Dhiyaneshwaran R II ECE	 <b>My Pocket Drone</b>
	 Dharanitharan M II ECE		

## Paper Presentation Awards

S.No	Name of the Student		Title of the Paper
1.	 Selvamadhavan N IV ECE		“Personal Medicine Succour” <b>IIRM-Best Presentation Award</b> IIRM Institute, Andhra Pradesh
2.	 Vijay S IV ECE	 Suriya Narayanan N V IV ECE	“Post-Accident Alert System using Client-Server based Synchronous Communication mechanism” <b>ICIRMEEE 2021 – Best Paper Award</b> Department of EEE, AMET University.

## *Papers Published in Journals & Conference By Students*

1. **Sarulatha D and Vedhika S** published a Paper titled “Efficient Water Usage Prediction and Metering System Using IoT” in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), on May 2021.
2. **Subhash R and Nikhil Madhavan** published a paper titled “Smart Mask for COVID-19 E-WARE” in International Conference on Emergent Converging Technologies and Biomedical Systems (ETBS-2021), at University Institute of Engineering & Technology, Kurukshetra University, and Haryana.
3. **Thiru senthilmurugan K** published a Paper titled “Telepresence BOT” in International Research & Developments in Engineering, Pharmacy & Management (ICRDEPM), on June 2021.
4. **Kevin Bradley M** published a paper titled “Non-invasive glucose Monitoring and ECG detection using RED tacton” in International virtual conference on recent trends in electrical energy, Artificial intelligence, Internet on things and Nano materials, M.Kumarasamy College of engineering, Karur.
5. **Vijay S and Suriya Narayanan N V** published a paper titled “Post-Accident Alert System Using Client-Server Based Synchronous Communication Mechanism” in International E-conference on Innovation and Research in Marine Electrical and Electronics Engineering(ICIRMEEE 2021) AMET University, chennai.
6. **Phavithra P** published a paper titled “Medical Assist Robot for Isolated Ward Patient in Hospital” in International Conference on Research & Developments in Engineering & Management - ICRDEM-2021.
7. **Nikhil John Thomas and Vigneshkumar R** published a paper titled “COVID Detection with Advanced Deep Learning Algorithms” International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering, Shri Valliammai Engineering College, Chennai.

## *Co-Curricular Activities*

As the saying goes “Stand up to your obstacles and do something about them. You will find that they haven't half the strength you think they have”, our students have stood up, competed and won various prizes in symposiums conducted by various Universities and Engineering colleges.

### INTER COLLEGIATE SYMPOSIUM WINNERS 2020-2021

#### II YEAR ECE

SL NO	NAME OF THE STUDENT	NAME OF THE EVENT	ORGANISER	PLACE
1.	AshwinVenkat	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
2.	DharaniTharan M	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
3.	Dhiyaneshwaran R	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
4.	Kamalesh S	Ecliptic model United nation conference	United Nations General Assembly Conference	I

#### III YEAR ECE

SL NO	NAME OF THE STUDENT	NAME OF THE EVENT	ORGANISER	PLACE
1.	Aravindhan A T	Covid-19 National Bio Information online Hackathon for Full Stackers	Anna University, BIT Campus, Tiruchy	State level Citation
		National Innovation Contest 2020	Institution's Innovation Council (IIC) - MoE's Innovation Cell	Selected for prototype presentation
		AICTE-Vishwakarma Awards-2020	AICTE-MHRD, Govt.of India	Selected for prototype presentation
2.	Baby Nivetha D	Technical Quiz Contest-2020	St. Joseph's College of Engineering, Chennai	II
3.	Bharath S J	Covid-19 National Bio Information online Hackathon for Full Stackers	Anna University, BIT Campus, Tiruchy	State level Citation
		National Innovation Contest 2020	Institution's Innovation Council (IIC) - MoE's Innovation Cell	Selected for prototype presentation
		AICTE-Vishwakarma Awards-2020	AICTE-MHRD, Govt.of India	Selected for prototype presentation
4.	Dhanush B	Covid-19 National Bio Information online Hackathon for Full Stackers	Anna University, BIT Campus, Tiruchy	State level Citation
		National Innovation Contest 2020	Institution's Innovation Council (IIC) - MoE's Innovation Cell	Selected for prototype presentation



		AICTE-Vishwakarma Awards-2020	AICTE-MHRD, Govt.of India	Selected for prototype presentation
5.	Godlin Sneha E	Coffee Painting Contest – Oct 2020	Saral Quiz, Chennai	II
6.	Shanthini K	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
7.	Shruthi K	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
8.	Sivaram P	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
9.	Sridaran K	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
10.	Sulaiman S	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
11.	VikramChandran B	Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
12.	Yasmin Immaculate S	The Final Problem	Sri Sai Ram Engineering College, Chennai	I
		Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist
13.	Yogapriya T	The Final Problem	Sri Sai Ram Engineering College, Chennai	I
		Grey Matter Momentum	Sri Sai Ram Engineering College, Chennai	I
		Toycathon 2021	Ministry of Education's Innovation Cell with support from AICTE	Finalist

#### IV YEAR ECE

SL NO	NAME OF THE STUDENT	NAME OF THE EVENT	ORGANISER	PLACE
1.	Hari Krishnan M	Big Data Boss – Season 2, a back to back 3 days of Kollywood Prediction, Gamification and Analytics Virtual Hackathon	Tact Labs, Toronto, Canada	Runner up
2.	Jaya Kumar K	Big Data Boss – Season 2, a back to back 3 days of Kollywood Prediction, Gamification and Analytics Virtual Hackathon	Tact Labs, Toronto, Canada	Runner up
3.	Sanjana K E	National Innovation Contest 2020	Institution's Innovation Council (IIC) - MoE's Innovation Cell	Selected for prototype presentation



4.	Sivanesh S	Brand Wars	Shaastra , Indian Institute of Technology (IIT), Madras	II
5.	Sri Nivetha.R	National Innovation Contest 2020	Institution's Innovation Council (IIC) - MoE's Innovation Cell	Selected for prototype presentation
6.	Subhash R	National Innovation Contest 2020	Institution's Innovation Council (IIC) - MoE's Innovation Cell	Selected for prototype presentation
7.	Thirusenthilmurugan K	Brand Wars	Shaastra , Indian Institute of Technology (IIT), Madras	II
8.	Vasanthan A	Brand Wars	Shaastra , Indian Institute of Technology (IIT), Madras	II
9.	Selvamadhavan N	Paper Presentation	IIRM Institute, Andhra Pradesh	Best Presentation Award
10.	Suriya Narayanan N V	Paper Presentation	ICIRMEEE 2021, AMET University	Best Paper Award
11.	Vijay S	Paper Presentation	ICIRMEEE 2021, AMET University	Best Paper Award

## *Extra-curricular Activities*

Leadership, Healthy Recreation, Self-Discipline and Self-Confidence is all about extra-curricular. Sport is one of the most important activity involving physical exertion and skill that builds the students substantial aspect well. Apart from curriculum, our department students also outclass in sports and brought laurels to the class in various sports events. To encourage students to seek innovation and challenges for the maximum utilization of resources entrepreneur development cell plays a key role.

### **Entrepreneurship Development Cell 2020-2021**

The Entrepreneurship Development Cell (EDC) is created with an intention of nurturing entrepreneurship skills of the students. The EDC of the College has collaborated with the Entrepreneurship Development Institute of Tamil Nadu, to enhance entrepreneurial skills among the students and to provide the right orientation, training and counseling for the students.

A Five days online boot camp “E-Camp : A Boot Camp for Aspiring Entrepreneurs” was conducted from **06<sup>th</sup> to 10<sup>th</sup> July 2020 with an objective of** creating awareness of how to identify crucial constraints in relation to the young entrepreneurs for long-term success in their life. Around 251 students from 155 different National level colleges participated in the E-Camp. The speakers were CEO's from different leading companies such as Crusaders, Rex Cyber solutions, Native lead, Society for Educational and Entrepreneurship development. The speakers enlightened the sessions with the topics on Social entrepreneurship, Characteristics of entrepreneurs, Cyber Security and Survival of the fittest. The other high light of the Programme was the lively talk by Alumni Entrepreneur.



An awareness program on Tamil Nadu Student Innovators Award (TNSI) in association with Entrepreneurship Development and Innovation Institute (EDII-GoTN), Centre for Entrepreneurship Development (CED), Anna University, Chennai was conducted on **18<sup>th</sup> September 2020**. Around 134 students from our college participated in the awareness program. Mr.Daniel explained about the purpose of the innovators award with many live examples and benefits of the program. The speakers also motivated the students to participate in these types of programs to improve the entrepreneurial skill.



An **online idea competition** was conducted on 15<sup>th</sup> October 2020 for our EDCell students to



inculcate the skills of innovation and entrepreneurship. Nearly 15 batches with 32 students participated with budding innovative ideas. The students enthusiastically came out new innovative ideas such as Active Pharmaceutical Ingredient, App for scanning level of germs in mask, Rapid test kit, stock marketing (eqt), and Innovation in power azure BI etc.

### Events Attended:

➤ **Dr.G.Rohini and Mrs.S.Tephillah** completed two days online webinar on “Research Structuring, Statistical Insights & Publication Strategies” organized by National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu from 28<sup>th</sup> to 29<sup>th</sup> November 2020.

➤ **Dr.G.Rohini and Mrs.S.Tephillah** completed three days Faculty Development Program organised by Programme Monitoring Office –Innovation & Entrepreneurship Development programme from 20<sup>th</sup> January 2021 to 22<sup>nd</sup> January 2021 at EDII-TN, Chennai

## Guest Lectures

Guest Lecture is a way of enriching our students with the latest updates about the rapidly developing technologies. The Students are imparted with the knowledge of Industry needs, latest technical updates, Avenues for Higher studies etc. Guest lectures by eminent personalities, academicians, leading industrialists, chief executive officers and managers are held by the department at regular intervals to provide valuable information to our students.

The following are the guest lecturers held:

### ODD Semester (2020-2021)

Sl. No.	Date of Lecture	Year /Batch	Resource Person	Topic
1	09/06/20	IV / 2017-21 III / 2018-22 II / 2019-23	Dr. Noor Mohammad Associate Professor IIITDM, Kanchipuram	Approximate Computing
2	09/10/20	III / 2018-22 IV / 2017-21	Dr. D.Vaithiyanathan Assistant Professor Department of Electronics and Communication Engineering NIT, Delhi	VLSI Design

**Even Semester (2020-2021)**

Sl. No.	Date of Lecture	Year /Batch	Resource Person	Topic
1	29/05/21	IV / 2017-21 III / 2018-22 II / 2019-23	Dr. Kasturai Vasudevan Professor Department of Electrical Engineering IIT, Kanpur	Evaluation of Telecommunications
2	06/06/21	IV / 2017-21 III / 2018-22 II / 2019-23	Dr. Alex Noel Joseph Raj Professor, College of Engineering, Shantou University, China	Time Division Multiplexing in Embedded System

## *Club Activities*

Knowledge is to the mind, what food is to the soul. 'To strive, to seek, to find and not to yield'. Amidst the hustle and bustle of our daily college routine-classes, exams and assignments a feast to the mind can really rejuvenate weary students. That's the objective of club activities in our esteemed institution St. Joseph's institute of technology. Different clubs like maths club, English club, Quiz club and Tamil club were initiated and given life by our beloved **Chairman Dr.B.Babu Manoharan** in the year 2011.

### **MATHS CLUB**

The aim of this club is to motivate and to nurture the interested students to excel in the field of Mathematics and its application. The club conducts various seminars and workshops to stimulate the awareness and interest in the field of Mathematics. It also opens opportunities for other colleges; JMC organizes a national level mathematical symposium MATHIESTA every year. The student coordinators of JMC conduct various events such as Mathematical Quiz, Dumb-C, Crossword, Adzap and Olympiad under the guidance of the staff members. The Mathematics club also conducts various competitions among the Mathematics club members and is performing dual role by inculcating arithmetic ability as well as logical thinking among the club members. The senior students share their experience in facing the different competitions conducted by various colleges and universities in India.

### **ENGLISH CLUB**

The student appreciates the world of Literature in English, learns to read extensively and write accurately through the 'in and beyond' classroom experience. The student develops LSRW skills through interactive learning and gains hands on experience of the language through field work. The student develops literary appreciation, generates creative ideas, expands critical thinking and experiments classroom teaching through well-structured seminars and assignments. The student becomes socially conscious and globally competent with value-based integrated courses. The object of the club is to provide a participative, literary ambience for the students. Various activities such as quiz, creative Writing, Ad Zap, and Oratorical and cross word are conducted.

### **TAMIL CLUB**

Every person has a special affinity to their mother tongue. It is the language that every child starts his or her life with. All our thoughts are best expressed in our mother tongue. In deference to this, our college has always stressed the importance of **TAMIL**. Club Activities with competitions are held every semester in our college. Programs like Quizzes, Debates, , "KavithaiPotti", Oratorical, "Varthaikku – Vaarthai" are conducted. In Addition to this, a special "Patti Mandram" is conducted to commemorate Puratchi Thalaivar Dr. M.G.R's birthday. Highly qualified Tamil personalities are invited to judge this pattimandram. The students showcase their incredible and staggering talents in these events. Their fluency, inherent oratorical skills, vocabulary and the capacity for thinking outside the box continually amaze and electrify everyone around them.

## ECO-SOC CLUB

The objective of this activity was to analyze and discuss the goals set by the U.N as part of the new sustainable development agenda, whose goals are specifically targeted to be achieved by various nations by 2030. The event started with a preliminary quiz on economics and social events in India and World across. The top 25 students were selected for the main event, namely "Sustainable Development". The main events divided the students into 5 groups and were tasked to speak on their given case which was derived from U.N official charts. The cases comprised of Peace, Justice and Institution in India, Life on land, Life under water, Industry, Innovation and Infrastructure & Clean energy. After the cases were read and discussed with the group members, each group were questioned on their declamations by other groups. The groups were evaluated by the judges on the criteria of oratorical skill, creative ideas, and relevancy to the society. The participants gave energetic stances for their case and had executed their case with innovative ideas for sustainable development.

## QUIZ CLUB

The quiz club comprises of student members and faculty advisors. The quiz club serves as a touchstone to sharpen young minds by conducting periodical quiz programs during a semester and nurtures leadership and event management skills in the senior students by encouraging them to organize quiz programs for the members of the club. It is a student run club with the senior student members taking turns in being quiz masters in the different quiz programs conducted by the club. The quiz masters use their creativity and skill in planning the rounds for the quiz programs. The different quiz programs hone the young minds and make them technically sound and competent. The quiz club members participate in various quiz competitions held all over Tamilnadu. In short our quiz club inspires and kindles students to observe, reflect and experiment. Students are encouraged and motivated to join in various club activities. As a token of appreciation, Cash prizes are awarded and merit certificates are issued for the winners of the events. In the following years, with The Almighty's blessings and our Chairman never ending support and guidance, our students will shine not only in our institution but in every nook and corner of the world which boasts of our presence – JOSEPHITES.

## ROBO CLUB

The St. Joseph's Robotics Club involves the student community who derive pleasure in creating robots that may even be potent to work without human intervention. The Club was created with the purpose of developing interest in the field of robotics among the student community. The Club will provide workspace, tools, and guidance to interested students apart from taking up specific projects. The Club provides an opportunity to participate in national or international level competitions. A robotics club is a gathering of students from the Department of ECE, CSE, EEE, IT & MECHANICAL who are interested in learning about and working with robots.

**The following activities are conducted during the academic year of 2020-2021:**

S. No.	Date	Name of the Event	No. of days/ No. of Hours	Number Benefited
1.	01/07/2020 To 07/07/2020	School Online Quiz Competition Series – Science Quiz	7 days	109
2.	08/07/2020 To 14/07/2020	School Online Quiz Competition Series - Technology Quiz	7 days	123
3.	15/07/2020 To 21/07/2020	School Online Quiz Competition Series - Sports Quiz	7 days	127
4.	22/07/2020 To 30/07/2020	School Online Quiz Competition Series– Famous Scientist Quiz	7 days	104
5.	01/08/2020 To 07/08/2020	School Online Quiz Competition Series– Current Affairs Quiz	7 days	109
6.	10/08/2020 To 15/08/2020	School Online Quiz Competition Series– COVID Awareness Quiz	7 days	119



## ELECTRONICS & ROBOTICS CLUB

Electronics club is the student run organization that strives to impart enthusiasm and passion for electronics and allied fields among students of ECE. The club aims to cater to the various needs that are primal to be addressed to keep in pace with the ever-evolving field of electronics. The club aims to uncover those key topics that are not part of the curriculum or just grazed upon by the syllabus. The functions of the electronics club are to deal from basics of electronics to the peak of it. This club, for sure, will help the students not only in their studies but also in their career. The main objectives of our club are to explain the concepts of electronics in a practical way and help them to gain knowledge and also provide a platform for the students to give a shape to their innovative ideas. In order to motivate the student's talent through the Department Club Activity, we have conducted various technical events for ECE Students.

**The following activities are conducted during the academic year of 2020-2021:**

S. No.	Date	Name of the Event	No. of days/ No. of Hours	Number Benefited
1.	1/6/2020 To 10/6/2020	A National level school event for School Students from Grade IX-XII with the theme – COVID-19 1.Project Presentation 2.Drawing Competition 3.Poster Making 4.Industrial Safety during Corona	10 days	256
2.	6/7/2020 To 10/7/2020	Student Development Programme for School Students for following topics <ul style="list-style-type: none"> <li>• Perspective-Thinking</li> <li>• Demystifying mobile networks</li> <li>• Communication skills</li> <li>• Virtual Reality</li> <li>• Basic Etiquette / Manners</li> <li>• Artificial Intelligence</li> <li>• Time Management</li> <li>• Critical Thinking</li> <li>• Resilience &amp; Adaptability</li> <li>• 3D Printers and Applications</li> </ul>	5 days (1 hour per day)	189
3.	3/10/2020	Paper Presentation - Your Dream Project (For II year Electronics and Robotics Club(ERC-Members))	1 day (2 hours)	65
4.	11/11/2020	Code Ninjas (For II year & III year students ECE Students)	1 day (2 hours)	30
5.	24/4/2021 To 30/4/2021	Student Development Program on Pygame for higher Secondary School Students with the following topics <ul style="list-style-type: none"> <li>• The Nitty – Gritty</li> <li>• One Way Or Another</li> <li>• Is It A Call Back?</li> <li>• Battleground (Pygame Part 1)</li> <li>• The Opponent (Pygame Part 2)</li> <li>• Ready, Aim, Fire (Pygame Part 3)</li> </ul>	6 days (1 hour per day)	65



## SCHOOL ACTIVITIES 2020-2021

### **A National level school event**

The department of Electronics and Communication Engineering of St. Joseph's Group of Institutions conducted an Online National level school event young talent from Grade IX-XII on 10.06.2020. With the theme –COVID-19 a total of 4 Events Namely Drawing, Poster Making, Project Presentation and, Industry Safety during Corona were conducted by the Staff and Student Coordinators. Totally 256 Participants from 115 different schools have participated in the online events from all around the World, California, Malaysia and from many parts of India who have shown great interest and actively participated. The main objective of this online event is to bring students and their talent together while they are stuck at home. And to also cheer them while providing awareness about the current situation in our world. We have received a great feedback submitted by the students and have acknowledged that they have received good perspective of our Institution and are grateful for the opportunity and platform. Planning towards conducting more events and webinars to encourage and build the students' knowledge. E-Certificates were provided to all the participants and the best of each competition were awarded points.

**ST. JOSEPH'S COLLEGE OF ENGINEERING**  
**ST. JOSEPH'S INSTITUTE OF TECHNOLOGY**  
 ST. JOSEPH'S GROUP OF INSTITUTIONS  
 ONE CHENNAI - 600 086

DEPARTMENT OF  
**ELECTRONICS & COMMUNICATION ENGINEERING**

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**A NATIONAL LEVEL SCHOOL EVENT**  
 For grade IX-XII  
**Free registration!!!**

Scan to register

Interesting contests on

1. Project presentation
2. Drawing competition
3. Poster Making
4. Industrial safety during corona

**Theme: covid - 19**

Last date to register: 10/6/20  
 Scan to submit

Submission deadline: 10/6/20

**Patrons**  
**Dr. R. Babu Manoharan M.A.M.B.A., Ph.D.**  
 Chairman, St. Joseph's group of institutions

**Convenors**  
**Dr. S. Agalya M.E., Ph.D.** HOD (Student Affairs)  
**Dr. C. Ganesh kowsalya M.E., Ph.D.** HOD (Staff Affairs)  
**Dr. S. Rajini M.E., Ph.D.** HOD (Lab Affairs)

**Dr. V. S. Sathya Narayanan M.A.M.B.A., Ph.D.** Managing Director, St. Joseph's group of institutions  
**Dr. P. R. Rajendran M.Tech., Ph.D.** Principal, St. Joseph's institute of technology

All other instructions to participants will be sent via mail  
**E-certificates will be provided for participants**  
[sjce020@gmail.com](mailto:sjce020@gmail.com)  
 +919884877875, +919884488447

## STUDENT DEVELOPMENT PROGRAM

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, Electronics and Robotics Club jointly conducted a "STUDENT DEVELOPMENT PROGRAM" from 06 July 2020 to 10 July 2020. A total of 189 Participants from various Schools and Polytechnic College are attended the webinar series from all over the nation, actively participated in the webinar and benefitted out of the event. These registrations were from various institutions from around the nation, some of them are **Uttar Pradesh, Rajasthan, Jharkhand, Chhattisgarh, Haryana, Karnataka, Andhra Pradesh, Telangana and Tamilnadu**. With the main objective of the program is to enlighten the students on some basic life skills and also to give them an insight into technological advancements, the topics and suitable speakers of our department students were chosen for sharing their knowledge and experience. Two Speaker and two different topics were taken in a day which took 30 minutes per session. The speakers were enthusiastic and determined to teach the upcoming generation. We have received a great **feedback** submitted by the participants and we acknowledged that they have received good perspective of our Institution and are grateful for the opportunity and platform provided. **E-Certificates** were provided to all the participants who had successfully submitted the feedback form.





## SCHOOL ONLINE QUIZ COMPETITION SERIES – SCIENCE QUIZ

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, conducted a "Science Quiz" under School online Quiz Competition Series from **01 July 2020 to 07 July 2020** exclusively for **11<sup>th</sup>, 12<sup>th</sup> School Students and Diploma Students**. A total of **109** Participants from various Schools and Polytechnic College are participated Science Quiz from all over the **Nation** actively participated in the Science Quiz and benefitted out of the event. These registrations were from various institutions from around the nation, some of them are **Uttar Pradesh, Rajasthan, Kerala, Madhya Pradesh, Chhattisgarh, Haryana, Karnataka, Andhra Pradesh and Tamil Nadu**. The aim of the School online Quiz Competition Series is to encourage students to look beyond their textual knowledge and establish a relationship between theory and application of the learnt concepts. The main objective of conducting Science Quiz to study the fundamental concepts of science that are related to everyday life. E-Certificates were provided to all the participants. The students who scored 80% and above is appreciated with Merit Certificate.

## SCHOOL ONLINE QUIZ COMPETITION SERIES – TECHNOLOGY QUIZ

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, conducted a "Technology Quiz" under School online Quiz Competition Series from **08th July 2020 to 14th July 2020** exclusively for **11<sup>th</sup>, 12<sup>th</sup> School Students and Diploma Students**. A total of **123** Participants from various Schools and Polytechnic College are participated Technology Quiz from all over the Nation and actively participated in the Technology Quiz and benefitted out of the event. These registrations were from various institutions from around the nation, some of them are **Uttar Pradesh, Rajasthan, Haryana, Karnataka, Andhra Pradesh and Tamil Nadu**. This quiz helps the students to test their knowledge about all things related to technology. The objective of conducting Technology Quiz to is to make the students to be aware of insights into technology. It helps the students to learn more about interesting technology subjects such as computers, IT and the Internet. The maximum duration is 15 minutes. E-Certificates were provided to all the participants. The students who scored 80% and above is appreciated with Merit Certificate.

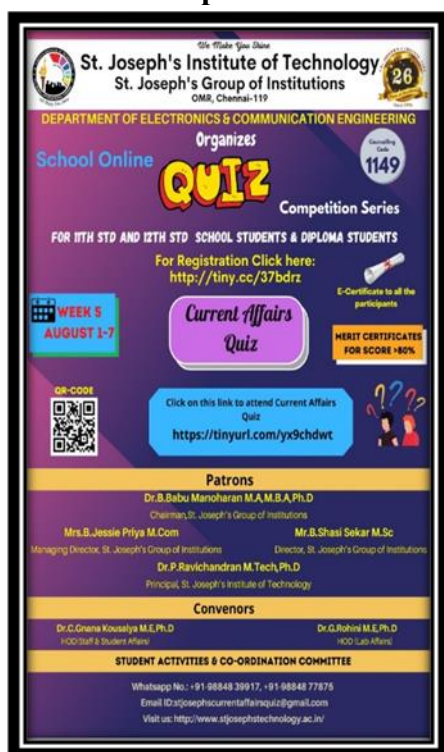
## SCHOOL ONLINE QUIZ COMPETITION SERIES – COVID'19 AWARENESS QUIZ

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, conducted a "Covid'19 Awareness Quiz" under School online Quiz Competition Series from 10<sup>th</sup> July 2020 to 15<sup>th</sup> July 2020 exclusively for 11<sup>th</sup>, 12<sup>th</sup> School Students and Diploma Students. A total of 119 Participants from various Schools and Polytechnic College are participated Technology Quiz from all over the Nation and actively participated in the Covid'19 Awareness Quiz and benefitted out of the event. These registrations were from various institutions from around the nation, some of them are **Uttar Pradesh, Kerala, Punjab, Karnataka, Andhra Pradesh and Tamil Nadu**. The objective of conducting Covid'19 Awareness Quiz to is to make the students to be aware of covid'19 symptoms, How does COVID-19 Spread and Precautionary measures to be taken which helps the students to be safe and away from the impact of Covid'19. E-Certificates were provided to all the participants. The students who scored 80% and above is appreciated with Merit Certificate.



## SCHOOL ONLINE QUIZ COMPETITION SERIES – CURRENT AFFAIRS QUIZ

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, conducted a "Current Affairs Quiz" under School online Quiz Competition Series from 01<sup>st</sup> August 2020 to 07<sup>th</sup> August 2020 exclusively for 11<sup>th</sup>, 12<sup>th</sup> School Students and Diploma Students. A total of 109 Participants from various Schools and Polytechnic College are participated from all over the Nation and actively participated in the Current Affairs Quiz and benefitted out of the event. These registrations include 1 International participation from Muscat and also includes from various institutions from around the nation, some of them are **Maharashtra, Uttar Pradesh, Rajasthan, Karnataka, Andhra Pradesh, Kerala and Tamil Nadu**. The main objective of conducting Current Affairs quiz is to enhance General Awareness among students. It covers all important events across India as well as World. These quizzes are helpful to the students preparing for the competitive examinations as well as in learning about the important developments of the corporate world. E-Certificates were provided to all the participants. The students who scored 80% and above is appreciated with Merit Certificate.





## SCHOOL ONLINE QUIZ COMPETITION SERIES – FAMOUS SCIENTIST QUIZ

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, conducted a "Famous Scientist Quiz" under School online Quiz Competition Series from 22 July 2020 to 30<sup>th</sup> July 2020 exclusively for 11<sup>th</sup>, 12<sup>th</sup> School Students and Diploma Students. A total of 104 Participants from various Schools and Polytechnic College are participated Famous Scientist Quiz from all over the Nation and actively participated in the Famous Scientist Quiz and benefitted out of the event. These registrations were from various institutions from around the nation, some of them are **Uttar Pradesh, Rajasthan, Karnataka, Andhra Pradesh, Kerala and Tamil Nadu**. The objective of conducting Famous Scientist Quiz to is to make the students to know the history of famous scientists who helped develop the world to what it is today, and whose knowledge and discoveries serve as building blocks for future discoveries by modern scientists. E-Certificates were provided to all the participants. The students who scored 80% and above is appreciated with Merit Certificate.



## SCHOOL ONLINE QUIZ COMPETITION SERIES – SPORTS QUIZ

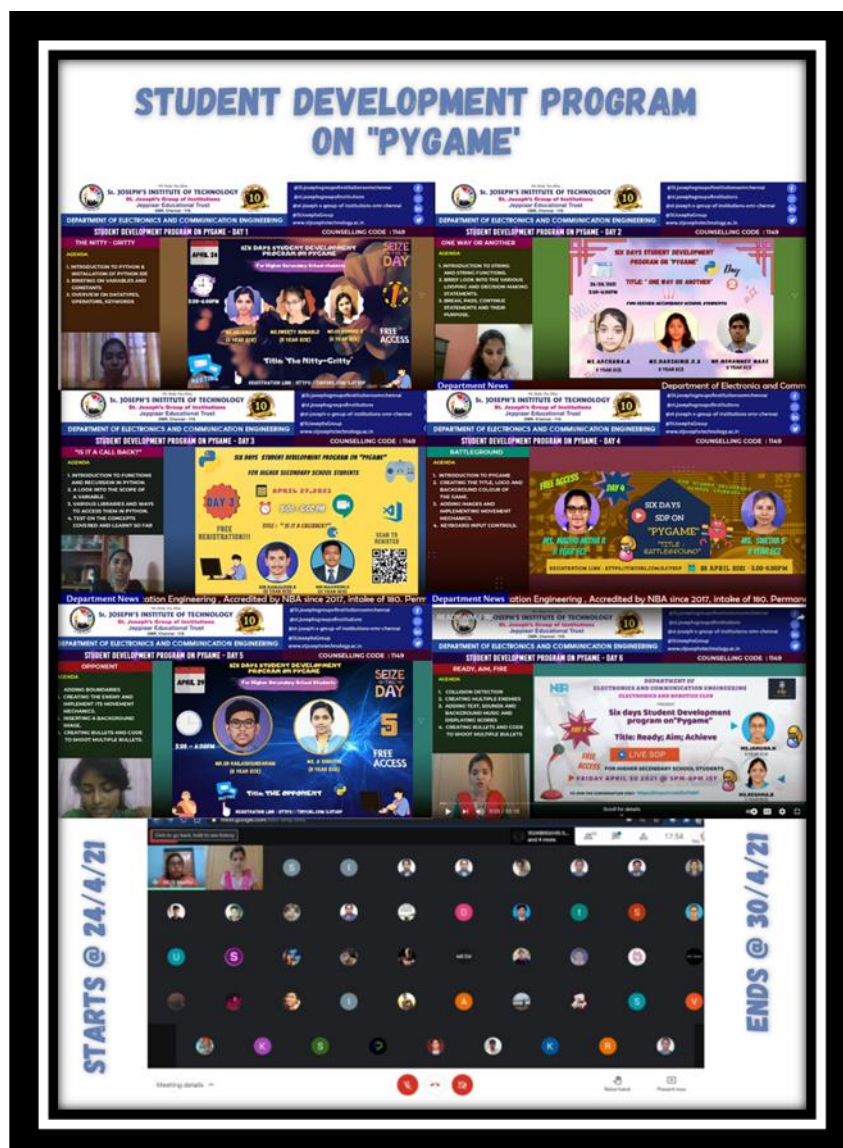
St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, conducted a "Sports Quiz" under School online Quiz Competition Series from 15<sup>th</sup> July 2020 to 21<sup>st</sup> July 2020 exclusively for 11<sup>th</sup>, 12<sup>th</sup> School Students and Diploma Students. A total of 127 Participants from various Schools and Polytechnic College are participated from all over the Nation and actively participated in the Sports Quiz and benefitted out of the event. These registrations were from various institutions from around the nation, some of them are **Uttar Pradesh, Madhya Pradesh, Rajasthan, Kerala, Andhra Pradesh and Tamil Nadu**. People need at least 60 minutes a day of moderate-to-vigorous physical activity. For school students, physical activity can help improve cognition, bone health, fitness, and heart health. It can also reduce the risk of depression. The objective of conducting sports Quiz helps the students to know about Sports GK Questions and Answers from Football to skiing. E-Certificates were provided to all the participants. The students who scored 80% and above is appreciated with Merit Certificate.

## STUDENT DEVELOPMENT PROGRAM

The IEEE Student Branch IEEE RAS, APS, PS, BTS, EMBS & WIE of department-Electronics and Communication Engineering of St. Joseph's Group of Institutions conducted A Student Development Program Exclusively for School students; Diploma students from **14 July 2020 to 18 July 2020**. Our Students voluntarily came with ease for sharing their knowledge and experience. The main objective of this online webinar series was to create a platform and give the participants and exposure of the various fields in today's technology. All the Students have given great presentations. All were very interactive and spontaneous in sharing their skills and let the participants widen their thinking and see the opportunities around the nation with a new perspective.

## STUDENT DEVELOPMENT PROGRAM ON PYGAME

St. Joseph's Institute of Technology, Department of Electronics and Communication Engineering, Electronics and Robotics Club jointly conducted a "STUDENT DEVELOPMENT PROGRAM ON PYTHON" from 24 April 2021 to 30 April 2021. A total of 65 Participants from various Schools are attended the webinar series from all over tamilnadu, actively participated in the webinar and benefitted out of the event. Student development in higher education is the integration of academic learning programs with the larger issues of personal improvement and individual growth. It is a student centred, holistic experience focused on understanding value nurturing skills and moving towards knowledge. So, it is the platform for both the sides to accelerate their carrier and personal skills. With the main objective of the program is to enlighten the students on python programming language skills and also taught about how to develop the game. Two to three Speakers of our department students were chosen per day, for sharing their knowledge and experience. The speakers were enthusiastic and determined to teach the upcoming generation. We have received a great **feedback** submitted by the participants and we acknowledged that they have received good perspective of our Institution and are grateful for the opportunity and platform provided. **E-Certificates** were provided to all the participants who had successfully submitted the feedback form.



## ***IEEE STUDENT CHAPTER***

The Department of Electronics and communication Engineering of St. Joseph's Institute of Technology has started with **IEEE RAS** technical society & **WIE** affinity group in the month of April 2016. In May 2017, **IEEE EMBS**, **BTS** society are inaugurated and followed by **IEEE APS** society inaugurated in the month of May 2018, and the new society **IEEE PS** inaugurated in the Month of September 2019.

In every year student branch raising the number of the society chapter for spreading the latest research among the students in the different streams of topic. The IEEE student branch of St Joseph's Institute of Technology is one of the **2nd largest student branches in IEEE Madras section** for the year 2018. In 2018 its privilege to IEEE EMBS Student chapter for awarding the best regional IEEE EMBS Student Chapter in Asia Pacific. Our IEEE student branch was awarded with a grade of B in 2016 and as the second largest membership in Madras Section with a grade of A in 2019. IEEE Student Chapter is more active with **124 -student members** and **05 professional members**.

The department strives to improve the standards of student members For the benefit of IEEE Student members; the society organizes technical meetings, technical events, and technical seminars, Conferences, Workshops and Faculty Development Programs to empower the knowledge of the students.

<b>Student Chapter Advisor</b>	: Dr. C.Gnana Kousalya (Professor, ECE)
<b>IEEE Faculty Members</b>	: 1. Dr. G.Rohini (Professor, ECE)
	2. Dr. P G V Ramesh (Professor, ECE)
	3. Dr.G.S Uthayakumar (Associate Professor, ECE)
	4. Mr.K.Immanuel (Assistant Professor, ECE)
	5. Mr. J.Bino (Assistant Professor, ECE)

S.NO	SOCIETY	Total Members (2020-2021)
1.	IEEE Robotics and Automation Society	28
2.	IEEE Engineering in Medicine and Biology Society	22
3.	IEEE Broadcast Technology Society	26
4.	IEEE Antennas and Propagation Society	24
5.	IEEE Photonics Society	24

We have also conducted various technical events for ECE Student under IEEE as listed below.

S.No.	Date	Name of the Event	Resource person	No. of days/ No. of Hours	Number Benefited
1.	11.07.2020	FEMINAR SERIES- BeYOUtiful	Ms.AnanthiRajiah	1 Hour	542
2.	12.07.2020		D.M. Dheepika	1 Hour	545
3.	13.07.2020		Mrs. Sriranjini	1 Hour	560
4.	14.07.2020	Student Development Program	Mr. Dhanush B	1 Hour	372
5.	15.07.2020		Mr. Bharath.S.J	1 Hour	372
6.	16.07.2020		Mr. Aravindhan	1 Hour	210
7.	17.07.2020		MS.Hemalatha	1 Hour	513
8.	17.07.2020		MS.Darsani.V	1 Hour	502
9.	18.07.2020		Ms. Keerthana T Ms. Swetha S.M.	1 Hour	372
10.	15.08.2020	Covid 19 Mind's Eye	Dr. Jothi Clara	1 Hour	110
11.	16.08.2020		Dr.AshwinKaruppan	1 Hour	110
12.	17.08.2020		Dr. C. Kishore Kumar	1 Hour	110
13.	20.08.2020	International Workshop	Dr. ZeidKootbally	1 Hour	279
14.	21.08.2020	International Workshop	Dr. Carmen Menoni	1 Hour	400



15.	01.09.2020	Youth International Talk Series	Ms.AilinTomio	1 Hour	650
16.	06.09.2020		Ms. Ashley Weckwerth	1 Hour	430
17.	10.09.2020		Ms. Diana Waithanji,	1 Hour	542
18.	13.09.2020		Ms.AysenurBesarOnol	1 Hour	234
19.	14.12.2020 To 18.12.2020	Deep Learning and AI using Python	Mr. S.Kamalesh	7.5 Hours	90
20.	08.03.2021	Health Awareness for Women	Mrs. SaranyaVenkatesh	1 hour	145
21.	24.03.2021	Making the most of IEEE	Mr.Aravinthan Anbalagan	1 hour	87
22.	27.03.2021 To 8.03.2021	Deep Learning for Wireless Communication in MATLAB	Mr.Juliyen Patrick A	3 hours	157
23.	10.05.2021	Protostorm 2.0	Dr.B.Vinoth	5 hours	84
24.	19.05.2021 To 22.05.2021	Senior Talks	Final Year Students	4 Hours	283

## SAVANT



**Mr. J. Patrick Waddell**  
Industry Consultant and S6  
ATSC Chair, California, USA

**TOPIC:** Audio Loudness – Why is it suddenly such a hot topic? And how do I protect my hearing?

**Date:**15/6/2020  
**Time:** 7.30 PM-8.30 PM  
**Organised by:** IEEE BTS Society  
**Number of participants**  
**Benefited:** 416



**Mr. John D. McDonald**  
Smart Grid Business  
Development Leader, GE, USA

**TOPIC:** Big Data, IoT, Enterprise Data Management and the New Data Requirements of Drones and Robotic Inspection Devices

**Date:**16/6/2020  
**Time:** 3.30 PM-4.30 PM  
**Organised by:** IEEE RAS Society  
**Number of participants**  
**Benefited:** 615



**Prof.Fabio Bonsignario**  
CEO and Founder  
Heron Robots, Italy

**TOPIC:** Reproducibility and Benchmarking in AI and Robotics

**Date:**17/6/2020  
**Time:** 2.30 PM-3.30 PM  
**Organised by:** IEEE RAS Society  
**Number of participants**  
**Benefited:** 615



**Dr. Liam Barry**

Professor,  
Dublin City University, Ireland

**TOPIC:** Developing flexible  
and spectrally efficient photonic  
systems using frequency combs

**Date:** 18/6/2020

**Time:** 3.30 PM-4.30 PM

**Organised by:** IEEE PS Society

**Number of participants**

**Benefited:** 503



**Dr. Briant T. Cunningham**

Donald Biggar Willett Professor  
in Engineering, Department of  
Electrical and Computer  
Engineering, University of  
Illinois, Urbana-Champaign,  
USA

**TOPIC:** Finding needles in a  
haystack: Liquid biopsy for  
nucleic acid and protein  
molecular biomarkers for disease  
diagnosis

**Date:** 19/6/2020

**Time:** 7.00 PM-8.00 PM

**Organised by:** IEEE EMBS  
Society

**Number of participants**

**Benefited:** 415



**Prof. Ming.C.Lin**

Distinguished Professor,  
Computer Science, University  
of North Carolina (UNC) at  
Chapel Hill, North Carolina,  
USA

**TOPIC:** Learning based traffic  
reconstruction to autonomous  
driving

**Date:** 20/6/2020

**Time:** 11.00 AM-12.00 AM

**Organised by:** IEEE WIE  
Society

**Number of participants**

**Benefited:** 542



**Dr. Victor Veliadis Executive**  
Director and Chief technology  
Officer at Power America  
Raleigh-Durham, USA

**TOPIC:** Accelerating  
Commercialization of Sic Power  
Electronics

**Date:** 21/6/2020

**Time:** 7.30 PM-8.30 PM

**Organised by:** IEEE APS  
Society

**Number of participants**

**Benefited:** 1058



## SAVANT 2.0



**Dr. Peterbaumann,**  
Jacob's University, Bremen,  
Germany

**TOPIC:** Data cubes as a  
Paradigm for Serving Big  
Spatio-Temporal Data

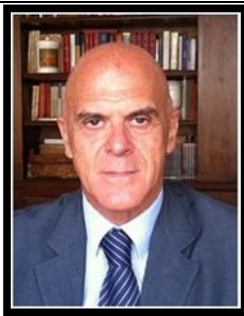
**Date:** 23/6/2020  
**Time:** 2.00 PM-3.00 PM  
**Organised by:** IEEE PS Society  
**Number of participants**  
**Benefited:** 430



**Dr. Carlo Fischione,**  
Professor,  
KTH Royal Institute of  
Technology, Stockholm,  
Sweden.

**TOPIC :** An Introduction to the  
Internet of Things

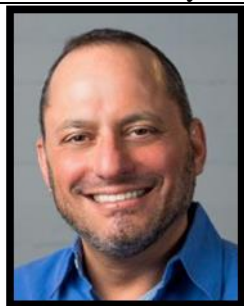
**Date:** 24/6/2020  
**Time:** 1.30 PM-2.30 PM  
**Organised by:** IEEE WIE  
Society  
**Number of participants**  
**Benefited:** 459



**Prof. Giuseppe Parise,**  
Professor,  
Sapienza University,  
Rome, Italy.

**Topic :** An Overview on the IEC  
Protection against Electric Shock

**Date:** 25/6/2020  
**Time:** 2.30 PM-3.30 PM  
**Organised by:** IEEE EMBS  
Society  
**Number of participants**  
**Benefited:** 345



**Dr. Dan Halperin,**  
Professor,  
Tel Aviv University, ISRAEL.

**TOPIC:** Multi-Robot Motion  
Planning: The Easy, The Hard,  
and The Uncharted

**Date:** 26/6/2020  
**Time:** 1.00 PM-2.00 PM  
**Organised by:** IEEE RAS  
Society  
**Number of participants**  
**Benefited:** 345



**Dr. Athena P Petropulu**  
Professor, Rutgers's University,  
New Jersey, USA.

**TOPIC:** On Co-Existence  
between Radar and  
Communication Systems

**Date:** 27/6/2020  
**Time:** 6.00 PM-7.00 PM  
**Organised by:** IEEE BTS  
Society  
**Number of participants**  
**Benefited:** 512



**Mr. Guy Bouchard,**  
Director, Transmission Systems  
at Tele-Quebec, Canada.

**TOPIC:** Satellite Based  
Broadcast Technology

**Date:** 28/6/2020  
**Time:** 3.30 PM-4.30 PM  
**Organised by:** IEEE APS  
Society  
**Number of participants**  
**Benefited:** 1066



**Ms. Mandeline Mnloland**  
USA.

**TOPIC:** ATSC 3.0

**Date:** 29/6/2020  
**Time:** 4.30 PM-5.30 PM  
**Organised by:** IEEE WIE  
Society  
**Number of participants**  
**Benefited:** 459



**Ms. ELENA MESSINA,**  
National Institute of Standards  
and Technology (NIST), USA

**TOPIC:** From Automatic To  
Autonomous: Defining Industrial  
Vehicle Capabilities

**Date:** 30/6/2020  
**Time:** 4.30 PM-5.30 PM  
**Organised by:** IEEE EMBS  
Society  
**Number of participants**  
**Benefited:** 459

### SAVANT 3.0



**Dr. Yu Yuan,**  
President & CEO,  
Oxsenses Corporation, USA.

**TOPIC:** Virtual Reality

**Date:** 14/7/2020  
**Time:** 6.30 PM-7.30 PM  
**Organised by:** IEEE EMBS  
Society  
**Number of participants**  
**Benefited:** 459



**Mr. Ezabo Baron**  
Co-Founder,  
Woxsan City Project, Uganda.

**TOPIC :**Artificial Intelligence

**Date:**18/7/2020  
**Time:** 6.00 PM-7.00 PM  
**Organised by:** IEEE PS Society  
**Number of participants**  
**Benefited:** 659



**Ms. Patty Rowland Burke**  
Fellow with the Bell Mason  
Group, USA.

**TOPIC :** Winning Strategies of  
Women in Stem

**Date:** 20/7/2020  
**Time:** 6.00 PM-7.00 PM  
**Organised by:** IEEE WIE  
Society  
**Number of participants**  
**Benefited:** 437



**Mr. Omer Melih Gul**  
Research Assistant,  
Middle East Technical  
University, Turkey.

**TOPIC :** Energy-Efficient Data  
Collection in Cellular IoT  
Networks

**Date:** 23/7/2020  
**Time:** 6.00 PM-7.00 PM  
**Organised by:** IEEE PS Society  
**Number of participants**  
**Benefited:** 459



**Mr. Hicham Berkouk**  
Manager – R&D Electrical and  
Electronics Laboratory,  
Groupe Brandt, Algeria.

**TOPIC :** Introducing the  
Software Life Cycle V Model

**Date:** 26/7/2020  
**Time:** 6.00 PM-7.00 PM  
**Organised by:** IEEE RAS  
Society  
**Number of participants**  
**Benefited:** 437



**Dr. Lorenzo Lo Monte**  
Chief Scientist ,Telephonics,  
New York, USA.

**TOPIC :** History and Future of  
Radar

**Date:** 29/7/2020  
**Time:** 6.00 PM-7.00 PM  
**Organised by:** IEEE RAS  
Society  
**Number of participants**  
**Benefited:** 603



**Dr. Vasilii I. Borisov**  
Assistant Professor  
URAL Federal University,  
Russia



**Aleksei E. Zhdanov**  
Assistant Professor  
URAL Federal University,  
Russia



**Anton Yu. Dolganov**  
Assistant Professor  
URAL Federal University,  
Russia

**Topic :** Biomedical Signals Processing in Electrophysiology and Occulography Using Machine Learning Methods

**Number of participants Benefited:** 500

**Date:** 27/7/2020

**Time:** 6.00 PM-7.00 PM

**Organised by:** IEEE APS Society

### SAVANT- INTERNATIONAL WEBINAR SERIES

#### SAVANT I

The IEEE Student Branch of department-Electronics and Communication Engineering of St. Joseph's Group of Institutions conducted an International Webinar Series called "SAVANT" from **15 June to 21 June 2020**. Eminent International speakers were invited to share their knowledge and experience. We received around **1493 registrations all over India**. The main objective of this online webinar series was to create a platform and give exposure of the various fields in today's technology. All the eminent international speakers were very interactive and spontaneous in sharing their skills and let the participants widen their thinking and see the opportunities around the world with a new perspective.

The collage features several key elements from the SAVANT 1 International Webinar Series:

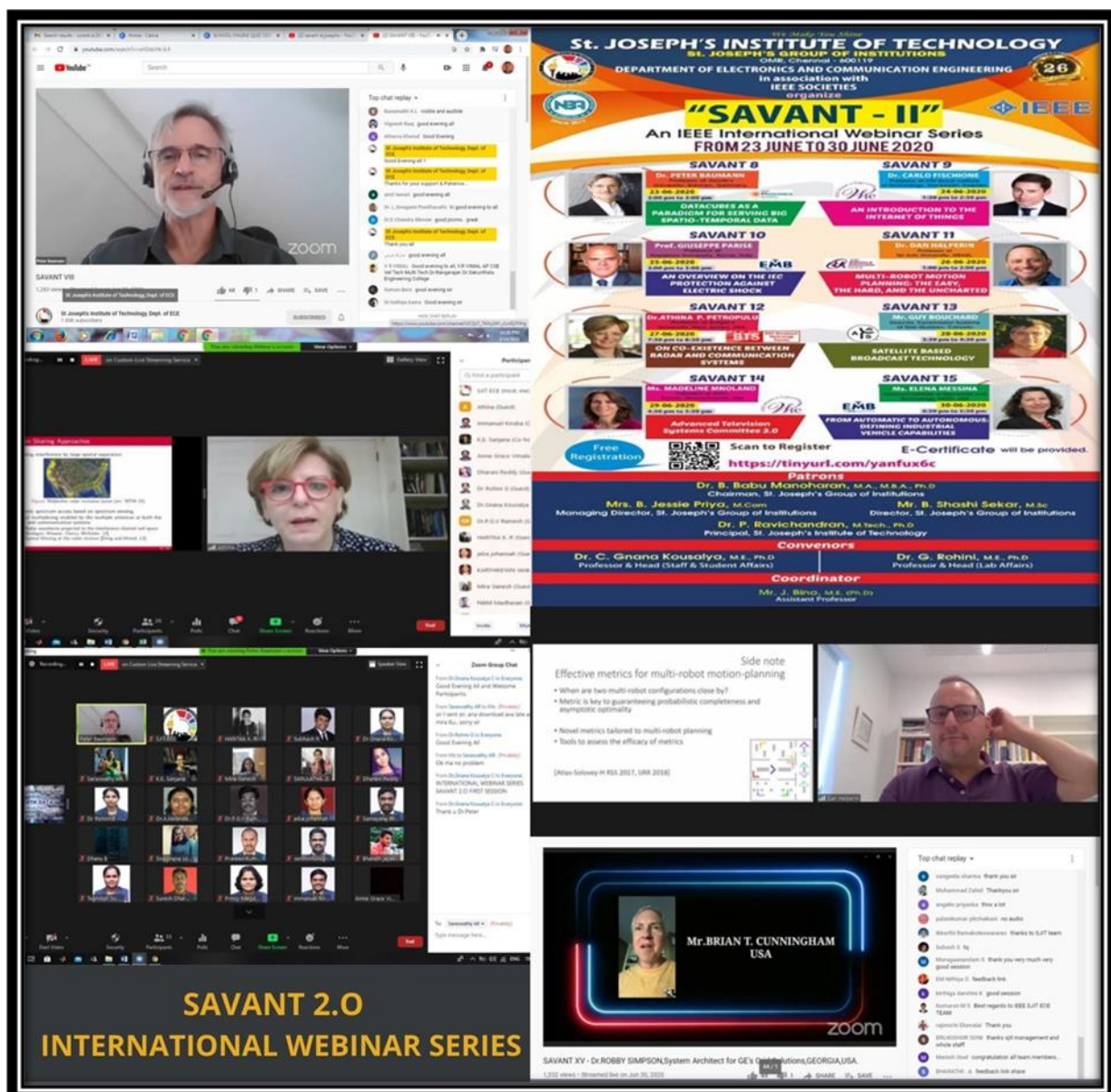
- SAVANT 1 Poster:** A central poster titled "SAVANT 1" listing seven speakers: Dr. Vasilii I. Borisov, Aleksei E. Zhdanov, Anton Yu. Dolganov, Dr. Liam Barry, Dr. Brian T. Cunningham, Dr. John D. McDonald, and Dr. Ming C. Lin. It also lists patrons, convenors, and a coordinator.
- Zoom Video Call:** A screenshot of a Zoom session with a speaker, showing a chat window with participant questions and comments.
- YouTube Live Stream:** A screenshot of a YouTube live stream interface showing a speaker and a chat window.
- NIST: Smart Grid Interoperability Standards:** A document titled "NIST: Smart Grid Interoperability Standards" detailing the release of 1.0 standards identified for NIST.



## SAVANT 2.0 - AN INTERNATIONAL WEBINAR SERIES

### SAVANT II

The IEEE Student Branch of department-Electronics and Communication Engineering of St. Joseph's Group of Institutions conducted an International Webinar Series called "SAVANT 2.0" from 23 June to 30 June 2020. Eminent International speakers were invited to share their knowledge and experience. We received around 1978 registrations all over India. The Eminent Speakers shared a lot of information on the topic and gave us a lot of exposure. The participants have shown great interest and actively participated. The main objective of this online webinar series was to create a platform and give the participants and exposure of the various fields in today's technology. All the eminent international speakers were very interactive and spontaneous in sharing their skills and let the participants widen their thinking and see the opportunities around the world with a new perspective. We have received a marvelous feedback submitted by the participants.



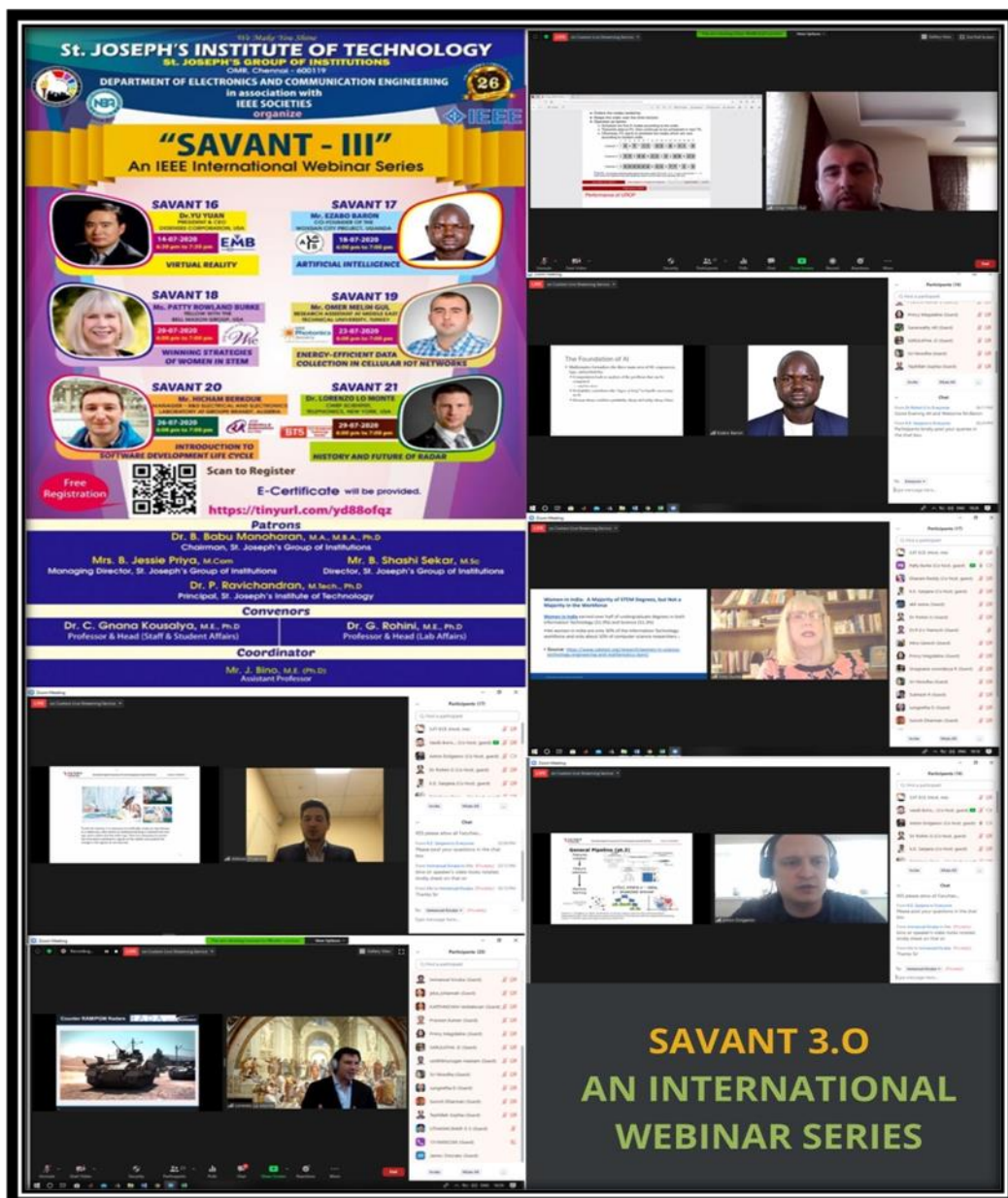


## SAVANT 3.0 - AN INTERNATIONAL WEBINAR SERIES

### SAVANT III

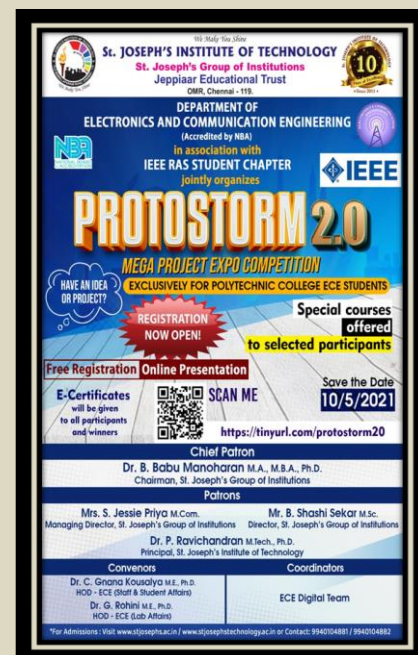
The speakers who were part of the **savant 3.0** were very informative and were filled with lots of knowledge. Only because of the encouragement given by the participants we were able to conduct the 3.0 series. We received around **2178 responses** who were from various parts of the world and from various fields of technology. The main goal of our webinar series is to give our participants a good knowledge and a platform for them to learn as well as to have knowledge in various fields. The speakers also shared their practical industry experience which is more valuable than the other information. This was the main reason where the participants really wanted All the international speakers who were a part of the savant series made us think in a different perspective. The speakers were very interactive with us and cleared the doubt which were raised by the participants. We had a great feedback given to our institution and appreciated us for a knowledge rich webinar series which were given by us. E- Certificates were given to all the participants who successfully filled the feedback form

given at every webinar.



## PROTOSTORM 2.0

The Department of Electronics and Communication Engineering of St. Joseph's Institute of Technology, St. Joseph's Group of Institutions in association with IEEE RAS Society conducted a Mega Project Expo Competition in the title (PROTOSTORM 2.0) exclusively for Polytechnic ECE students, on 10<sup>th</sup> May 2021. Totally 46 batches registered from various Polytechnic institutions. The participants have shown great interest and actively participated. The main objective of this Project Expo was to create a platform and give the participants an exposure to the various fields in today's technology. The participants were very interactive and were spontaneous in sharing their skills. and this platform was very useful for the participants to widen their thinking and see the opportunities around the world with a new perspective. We have received a great **feedback** submitted by the participants and have acknowledged that they have a good perspective about our Institution and are grateful for the opportunity and platform provided. Participants have also acknowledged that it was a refreshing and an eye opener session and looking forward to many forums in the future. **E-Certificates** were provided to all the participants who had successfully submitted the feedback form.



## Indian Society for Technical Education (ISTE) Students Chapter

Indian Society for Technical Education is a professional organization working for the improvement of technical education in the country. It attempts to bring in a total qualitative change in mind of personnel involved as well as techniques employed in the field of technical education. ISTE Students Chapter was inaugurated to make the student community to actively participate in ISTE activities and to provide a common platform for students to exhibit the talent which helps in their career development and to get excellent position in the Society.

The ISTE student Chapter is one of the most active student branches in St Joseph's Institute of Technology. The details are

<b>Name of the Faculty Advisor</b>	<b>: Dr.C.Gnana Kousalya M.E., Ph.D.,</b>
<b>Designation</b>	<b>: Professor &amp; Head</b>
<b>Department</b>	<b>: Electronics and Communication Engineering</b>

S.NO	DEPARTMENT	TOTAL NO OF STUDENTS
1.	ECE	30

The College strives to improve the standards of student members for the benefit of ISTE Student members; the society can organize the various technical activities to empower the knowledge of the students. **The students can get incentives under ISTE Students Chapters,**

- Without any further criteria, ISTE Student members are allowed to attend National level seminars, conferences and workshops conducted through ISTE Student Chapter at various colleges and Universities.
- By considering the performance of the ISTE Student member, a member can get Best Student Chapter Prize/Award by ISTE, New Delhi.

## ***IETE Student Chapter***

To establish professional and technical standards in electronics, telecommunications and conduct such tests and / or examination as may be required for this purpose. Keeping in mind the interest of the ECE professional users ISF works towards making the profession an area of choice amongst all sections of the society. St. Joseph's Institute of Technology joined as the Member of Institution of Electronics and Telecommunication Engineers (IETE) Students' Forum (ISF) for the Department of Electronics and Communication Engineering.

**Student Branch Coordinator (SBC)** : Dr. C.Gnana Kousalya (Professor, ECE)

**IETE Faculty Member** : 1. Dr. G.Rohini (Professor, ECE)

<b>Total Number of Student Members in ISF – 60 Students</b>
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For the benefit of members, the Chapter organizes technical meetings, product presentations, Conferences and Workshops. St. Joseph's Institute of Technology inaugurated IETE Students' Forum (ISF) on January 7th 2015 by **Dr.S.Ramasamy Chairman**, Institution of Electronics and Telecommunication Engineers, Chennai Centre.

We have also conducted various technical events for ECE Student under IETE Students' Forum (ISF) as listed below.

S.No	Title	Resource Person	Date
1.	Online Webinar on A Risk of Artificial Intelligence: A security Perspective	Dr.Sibi Chakaravarthy, Associate Professor, Vellore Institute of Technology, Andhra Pradesh.	12.06.2020
2.	Online Webinar on Application of ML tools for Healthcare	Dr.B.Surendiran, Associate Dean(Academics), National Institute of Technology (NIT) Puducherry, karaikkal.	04.07.2020
3.	Online Webinar on Cloud Computing	Dr.M.Manikandan Associate Professor Anna University, Chennai	29.09.2020
4.	Online Webinar on Opportunities and Challenges in 6G Wireless Technologies	Dr.Sridhar Iyer Research and Development Cell Coordinator, Associate Professor-ECE S.G. Balekundri Institute of Technology	19.01.2021

## ***STUDENTS COMPETITIVE EXAM RESULTS***

The following students are qualified in the various examinations like GATE, GMAT, CAT, GRE, TOEFL, XAT, CMAT, SNAP, IELTS, etc.

### **2017-2021 Batch**

S.No	NAME OF THE STUDENT	EXAM
1	Anjini. R	GATE
2	Aravindh.S	
3	Ashley Berin.J	
4	Casandra Josephine Fernando	
5	S.Devapriya	
6	Jenisha Jenifer J	
7	Joel Manova M	
8	Subhash R	
9	M.Santhosh	IELTS
10	Sri Dharshan V S	IELTS
11	Mira G	TOEFL
12	Sanjana K E	IELTS

## ***Business English Certificate***

The Business English Certificate (BEC), a certification from Cambridge University, ESOL, is a qualification which is specifically in English for work. It is trusted and globally accepted by leading employers, educational institutions and governments worldwide. BEC is a skill based qualification; it gives students the opportunity to learn practical language skills and show to employers how good they are in these skills.

The English learnt is directly relevant to the English that they will use every day in the workplace. To gain a BEC Certificate students have been assessed in the four areas namely, listening, speaking, reading and writing. When students sit for the BEC examination, they are tested in all these skills through a series of practical tasks and interview questions. The tasks and questions are taken from real workplace situations.

BEC certification is given under three levels – preliminary, Vantage and Higher. Every year the diagnostic test is conducted for all the students and they are categorized under the three levels. Based on the levels, Training is given to the students and the BEC examination is conducted by the Cambridge University in our College campus itself.

BEC is relevant and has helped the students to become more competent and confident by improving language proficiency. BEC has developed cross-cultural communication skills and overall development of the students. It has an impact on confidence levels through international certification. The details of the department results are as follows:

### **BATCH 2016-2020**

LEVEL	NO.OF STUDENTS APPEARED	NO.OF STUDENTS PASSED	PASS PERCENTAGE
BEC VANTAGE	66	65	98.48
BEC PRELIMINARY	40	39	97.5
TOTAL	106	104	98.11

### **BATCH 2017-2021**

LEVEL	NO.OF STUDENTS APPEARED	NO.OF STUDENTS PASSED	PASS PERCENTAGE
BEC VANTAGE	71	69	97.18
BEC PRELIMINARY	28	28	100
TOTAL	99	97	97.97

### **BATCH 2018-2022**

LEVEL	NO.OF STUDENTS APPEARED	NO.OF STUDENTS PASSED	PASS PERCENTAGE
BEC VANTAGE	129	129	100
BEC PRELIMINARY	35	35	100
TOTAL	164	164	100



## *St. Joseph's Civil & Defence Academy*

**These academy trains all the students at free of cost. No fees are collected from the students.**

### **St. Joseph's Civil Services Academy**

The academy aspires to create an avenue for the students to explore opportunities in Indian Civil Services and Tamilnadu Public Services (Group I services). The academy trains all the students free of cost, those who aspire to be an able and efficient civil servant.

### **St. Joseph's Defence Officers Academy**

The academy organizes seminars and workshops with the help of Defence officers and experts in soft skills to train the Defence aspirants to think, feel and express like Defence officer. Also, our academy scheduled a plan to train our aspirants physically and psychologically during this academic year.

### **Activities Conducted During the Academic Year 2021- 2022**

**St. Joseph's Civil Services Academy and St. Joseph's Defence Officers Academy** have arranged various webinars and workshops during this pandemic period as listed below.

1. Conducted A 3- Day Workshop on “**Role of Electrical Engineer in Space Agency**”, by **Mr. Roger Hunter (Program Manager, NASA, California, United States)**, **Mr. A Benzigar Rajan (Scientist, ISRO, Tamilnadu, India)** and **Mr. Goutam Chattopadhyay (Senior Scientist, NASA-JPL, California, United States)** from 14/05/2021 to 16/05/2021.
2. Conducted a Webinar on “**Career Opportunities for Engineers in Indian Navy**” by **Commodore P. C. Maragathavelan, Chief Quality Assurance Officers (Eastern Fleet Stores), Indian Navy, Visakapatnam** on 04/06/2021.
3. Conducted a Webinar on “**Engineers Make A Difference**” by **Mr. Siddharth Thangaraj, I.R.S., Deputy Commissioner, GST & Central Excise Customs, Tirupur** on 27/06/2021.

### **Achievements**

Our student **Ms. A. Vijayalakshmi**, 2010-14 Batch, Department of Computer Science Engineering, has secured 24<sup>th</sup> Rank in the TNPSC Group- I (2017) of Tamil Nadu Government. She has been appointed as Assistant Commissioner of Commercial Taxes (State GST Department) in Kumbakonam, Tamil Nadu.

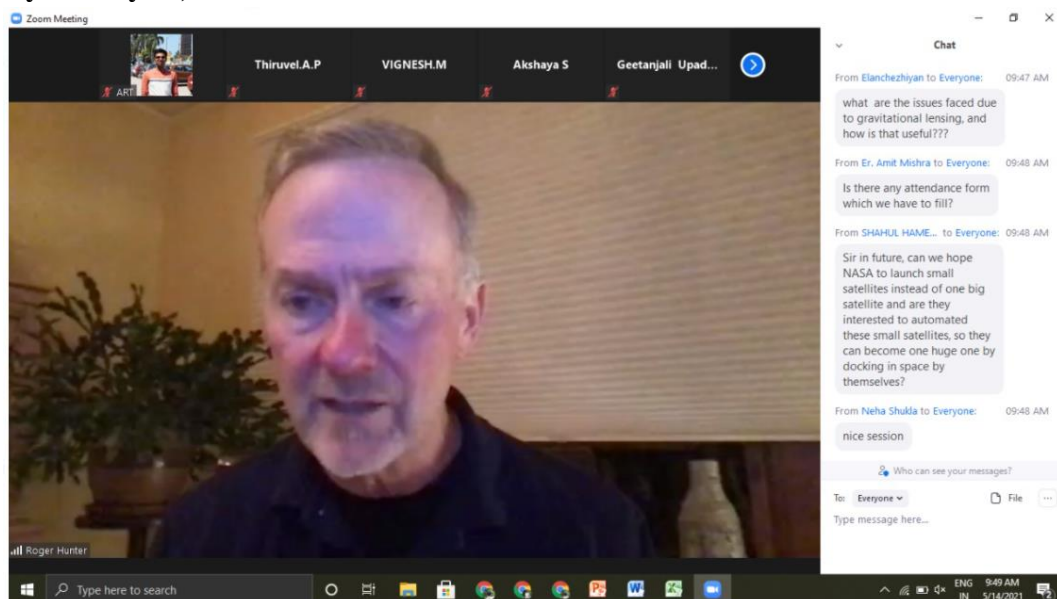




**Mr. A Benzigar Rajan, Senior Scientist, ISRO, Tamil Nadu, India addressed the aspirants in a workshop on the role of the Electrical Engineer in the Space Agency on 15th May 2021.**



**Mr. Roger Hunter, a renowned Program Manager at NASA talked about the role of Electrical Engineer in Space Agency on May 14, 2021.**



**Mr. Goutam Chattopadhyay S, Senior scientist in NASA, presented a webinar on The Role of Electrical Engineers at Space Agencies On 16th May 2021.**



## *VALUE ADDED COURSES*

Courses are provided to students with an aim to teach and train in programming skills. The goal is to accelerate the programming capability needed for solving scientific and real time problems demanded by the corporate world. Students have options to choose the courses according to their desire and inclination. It is great boon to our students, in expertise various Value Added Courses which enables them to face the formidable challenges. It is a matter of pride that the courses are taught by the experts from industries using the laboratory facilities available in our institutions to meet the requirements of industry. On successful completion of such value added courses make the students to:

- Accelerate the programming skills
- Carryout innovative projects
- Compete with the fellow students during placement and interview process

### Student's workshops other than value added courses

**The following Workshop was conducted to our department students:**

S. NO	Workshop	Resource Team	No of days	Year	Date	No of Students Benefitted
1	Engineering Project & Management Report	Mr.Juliyen Patrik A, Graduate Research Assistant at Gannon University, Pennsylvania, United States	4	II, III & IV	10.06.2020 To 13.06.2020	201
2	Design, Fabrication and Programming RC Aircraft	Asimov Global Technologies	2	II	18.03.2021 To 19.03.2021	158
3	Embedded System Design	1. Mr.K.Immanuel Assistant Professor-ECE 2. Mr.A.Dinesh kumar Assistant Professor-ECE	2	II	12.10.2020 To 13.10.2020	160
4	Arduino Using Proteus	Pantech Solutions	2	III	11.06.2020	189



**Building Aircraft**

## ***BEST OUTGOING STUDENT AWARD***

Success is not the destination that we reach. Success is the quality of our journey. Mankind's greatest achievements have come about by constant encouragement. Our greatest hopes could become reality in the future if our efforts are recognized. All we need to do is to appreciate and encourage the young minds as most achievers are people who have made a strong and deep dedication to pursue a particular goal. St. Joseph's recognizes this dedication by awarding the student with "The best Outgoing Student Award".

The students from various departments were nominated based upon various traits, achievements or accomplishments

- Academic Performance indicated by CGPA
- Attendance (not taken more than four days leave in a semester)
- Got placed or got admission for higher studies.
- Brought laurels to the department or college
- Active participation in the curricular and co-curricular activities
- Organized activities at department level or at college level
- Having good communication skills
- Not undergone any disciplinary proceedings
- Maintaining neat dress code
- Quality of final year project

In our department, four students are nominated for the award and the Chairman selects one candidate from the nominated list. The best outgoing student is felicitated by the **Chairman Dr. B. Babu Manoharan** with a shield and certificate.

The following table shows the names of **best outgoing students** from various departments:

S.No	Department	Name of the Student
1.	CSE	Mr. NAGARAJAN S
2.	ECE	Ms. SRI NIVEDHA R
3.	EEE	Ms. POOJA N
4.	MECH	Mr. RAJARAM P
5.	IT	Ms. KEERTHISREE RAGU
6.	CIVIL	Ms. ABINAYA T



*We Make You Shine*

**St. Joseph's Institute of Technology**

**St. Joseph's Group of Institutions**

OMR, Chennai - 600119



**Department of Electronics & Communication Engineering**

**CLASS TOPPERS**



**Ms. Swathi.G**

D/o Mr. Govindarajan.M  
Mrs. Sasikala.G  
CGPA : 8.98



**Ms. Sri Nivedha.R**

D/o Mr. Rathinakumar.V  
Mrs. Usha.G  
CGPA : 8.82

**IV Year  
BATCH(2017-2021)**



**Ms. Keerthana.A**

D/o Mr. Arunachalam.P  
Mrs. Krishnaveni.K  
CGPA : 9.24



**Ms. Pushadapu Roopika.M**

D/o Mr. Mangarjuna.P  
Mrs. Lakshmi.P  
CGPA : 9.07

**III Year  
BATCH(2018-2022)**

**( Upto 6th semester )**



**Ms. Palaniappan.A.R**

D/o Mr. Arunachalam.R.M  
Mrs. Tamil Selvi K  
CGPA : 9.41



**Ms. Rakshini.S**

D/o Mr. Shivasankaran.V  
Mrs. Renukadevi.S  
CGPA : 9.40

**II Year  
BATCH(2019-2023)**

**( Upto 4th semester )**



**Ms. Sandhya.M**

D/o Mr. Sivasankaran.V  
Mrs. Renukadevi.S  
CGPA : 9.56



**Mr. Sam Daniel.P**

D/o Mr. Pondurai.P  
Mrs. Jeyanthi.P  
CGPA : 9.4

**I Year  
BATCH(2020-2024)**

**( Upto 2nd semester )**