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ABOUT THE DEPARTMENT

Electronics and Communication Engineering Research Gazette is a periodical publication of the Department of Electronics and Communication Engineering, which has a unique pinnacle for its goals, activities, achievements and research news. Department's blooming research programs leads a bridge to the students to participate in projects of various fields.

The Department comprises of highly qualified and experienced professors in various fields like Antennas, Communication, Embedded, Image Processing, Networks and Circuits, Signal Processing, VLSI etc., Faculties also maintain a cordial relationship with students.

The Department incorporates stupendously equipped laboratories to enhance the understanding capacity of the students. An efficient practical demonstration is regulated for the students to perceive and master them.

The Department conducts forums for researchers, academicians and industry people from all over the country to disseminate the new research finding and to explore innovative technologies for the benefit of the society. The Department pivots and anchors the current issues, advanced trends in the field of information, computing and communication systems.

HOD'S DESK



Greetings from the Department of Electronics and Communication Engineering. It has been an adventurous and happening academic year 2018-19. It gives me a great privilege to present to you, the yearly issue of 'EXPLOTRONICS'. In the department magazine, we disseminate the life of student in SKCET campus in the past academic year. The year was full of events, activities and achievements. The SIH2019, NIRF, and so on, being the major milestones of the academic year, there was a huge support and a rush of energy from the students as well as the faculty. The department is making great contribution and progress towards research through project proposals, patent filing and more. Our students are also marking their achievements in various events across the nation.

I would like to thank all the faculty of the department for their tireless efforts to help the department take giant leaps of progress. I would also like to thank the students for working hand in hand with us and creating the change. I encourage you to put in more effort in the upcoming academic year and break your own records. Don't limit your challenges, challenge your limits. Wish you good luck,

*(Dr. S. Sophia
Professor & Head -ECE)*

PROJECT PROPOSALS

S.N O	AUTHORS	TITLE	SCHEME	GRAND APPLIE D in Rs./-	DURAT ION	DATE OF SUBMIS SION
1.	Dr. S. Sasipriya Dr. D. Selva Kumar	Synthesis and Formation of Flexible Graphene Based Metal Oxide Nanocomposites for Tuneable Capacitor In RF Application	SERB-CRG	35,42,000	3 years	30.06.18
2.	Dr. V. Nandalal Dr. S. Sophia Dr. V. R. Balaji	Development of an IOT Based Economized Wearable Navigation Antenna to Safeguard Mentally Challenged People	SERB-CRG	52,08,740	2 years	30.06.18
3.	Dr. J. Rejina Parvin	Design of Low Cost Mobilization Device for Persons With Disability.	SERB Early Career Research Award – DST	15,90,050	3 years	15.08.18
4.	Dr. D. Selva Kumar	Development of Flexible Perovskite Solar Cells Using Chalcogenide Materials on Reduced Graphene Oxide Paper	SERB Early Career Research Award	35,00,000	3 years	15.08.18
5.	Mr. S. Satheesh Kumar	IoT Based Global Bike Tracking System for Alcohol Impairment with Emergency Alert Using Smart Helmet	TNSCST	10,000	1 year	27.8.18
6.	Ms. D. A.	1. Electric Sheath 2. IoT Heart Beat	TNSCST	10,000	1 year	29.08.18

	Janeera	Monitor				
7.	Dr. S. Sasipriya	Smart Street Lamp to Track Activities and Environmental Conditions for Smart Cities	WOS B DST	30,00,000	3 years	1.11.18
8.	Dr. V. R. Balaji	Feature Analysis using AI/ML	Refresher Programme AICTE- ISTE		1 year	14.11.18
9.	Dr. V. R. Balaji Mr. J.R. Dinesh Kumar Mr. S.P. Karthi	Micro & Macronutrients Prediction in Soil for Optimizing Plant Growth using Machine Learning & IOT	SPARSH- BIRAC	25,00,000	2 years	16.11.18
10.	Dr. C. Thirumaraiselvi Ms. D. V. Soundari	Empowering Sustainable Livelihood of Siruvani Tribes with Invasive Weeds	TITE – DST	35,00,000	2 years	23.11.18
11.	Dr. S. Sophia Ms. N. Kalaivani Ms. D. Devi	Empowering Rural Women With Technical Skill Training on Electric Assembling and Packaging	S&T- DST	34,00,000	2 years	23.11.18
12.	Dr. S. Sophia Ms. N. Kalaivani Ms. D. Devi	Socioeconomic Status Development of the tribal People In Thondamuthur Region	TITE – DST	38,00,000	3 years	23.11.18
13.	Dr. S. Sasipriya Ms. C.	Design of Smart Health Care and Wearable Device for Elderly People	BIRAC – SPARSH	19,80,000	2 years	23.11.18

	Senthamil Arasi Ms. G. Saranya	Affected by Dementia and Chronic Disease				
14	Dr. D. Selva Kumar Mr. S. Satheesh Kumar Mr. S. Karthik	Microwave Synthesis Of Rare Earth Doped Tio2 Nano Particle Grafted Grapheme Sheets for Industrial Waste Water Treatment	DST- OPTIMAL WATER USE IN INDUSTRIA L SECTOR	43,17,000	2 years	29.11.18
15	Mr. S. Satheesh Kumar Dr. D. Selva Kumar Mr. S. Karthik	Microwave Synthesis of Rare Earth Doped Tio2 Nano Particle Grafted Graphene Sheets For Industrial Waste Water Treatment	S & T - DST	4,50,000	2 years	15.02.19
16	Dr. S. Sasipriya Ms. C. Senthamil Arasi Ms. G. Saranya	Design Of Smart Health Care And Wearable Device For Elderly People Affected By Dementia And Chronic Disease	S & T - DST	4,82,000	3 years	18.2.19
17	Dr. S. Sasipriya Ms. C. Senthamil Arasi Ms. G. Saranya	An Efficient Health Care Diagnostic Device With an Autonomous Medical Bot	BIG – BIRAC	16,87,000	1.5 years	15.2.19
18	Dr. J. Rejina Parvin Dr. S. Karthika	Incorporating Artificial Intelligence and IOT For Socio- Economic Challenges of the Nation	Scheme for Young Scientist and Technologists	21,66,480	3 years	20.4.19

19	Ms. D. V. Soundari Ms. B. Vidhya Dr. C. Thirumaraiselvi	Biosensors in Agriculture	Scheme for Young Scientist and Technologists	29,00,000	3 years	20.4.19
20	Dr. D. Selva Kumar Mr.T.Vignesh, Mr.N.Manikandan	Detection of Food Adulteration using IR Detector	Scheme for Young Scientist and Technologists	14,50,000	2 years	20.4.19

PATENTS FILED

S.NO	NAME	TITLE	PATENT ID	DATE
1.	Ms. D. Devi Ms. N. Kalaivani	Autonomous IOT BOT for Water Irrigation using Graphene Plant Tattoos	201841024047	28.6.18
2.	Dr. C. Thirumaraiselvi	Virtual Friend for Elderly/Differently able	201841023877	14.9.18

PUBLICATIONS IN JOURNALS AND CONFERENCES

S.NO.	AUTHOR NAME	SCOPUS	WOS	SCI
1.	Dr. S. Sophia	2	1	-
2.	Dr. M. Karpagam	-	1	-
3.	Dr. S. Sasipriya	3	-	1
4.	Dr. V. Nandalal	1	1	-
5.	Dr. V. R. Balaji	1	1	-
6.	Dr. C. Thirumaraiselvi	1	1	-
7.	Dr. D. Selva Kumar	2	-	-
8.	Dr. J. Rejina Parvin	1	1	-
9.	Dr. S. Karthika	2	-	-
10.	Ms. N. Kalaivani	2	-	-
11.	Ms. D. Devi	1	-	-
12.	Ms. J. Jansi Rani	1	-	-
13.	Ms. U. Vanitha	1	-	-
14.	Ms. G. Surya	1	-	-
15.	Ms. A. Wims Magdalene Mary	1	-	-
16.	Mr. V. Karthik	1	-	-
17.	Mr. R. Sarath Kumar	1	-	-
18.	Mr. M. Ramkumar	2	-	-
19.	Ms. D.V. Soundari	3	-	-

20.	Mr. N. Girinath	2	-	-
21.	Ms. C. Senthamil Arasi	2	-	-
22.	Mr. C. Visvesvaran	3	-	-
23.	Ms. G. Saranya	1	-	-
24.	Ms. B. Vidhya	3	-	-
25.	Ms. Rajeswari Aravind	1	-	-
26.	Mr. S.P. Karthi	2	-	-
27.	Ms. D. A. Janeera	1	-	-
28.	Ms. N. Nanthini	3	-	-
29.	Ms. I. Roshini	1	-	-
30.	Ms. A. Anie Selva Jothi	1	-	-
31.	Ms. M.Nidhiya Aravind	1	-	-
32.	Ms. S. Praseetha	1	-	-
33.	Ms. D. Ruth Anita Shirley	2	-	-
34.	Ms. J. Jeya Padmini	2	-	-
35.	Ms. K. Priya dharsini	3	-	-
36.	Mr. J. R. Dinesh Kumar	2	-	-
37.	Ms. P. Anitha	1	-	-
38.	Mr. S. Karthik	2	-	-
39.	Mr. S. Satheesh Kumar	2	-	-
40.	Ms. S.Nikilla	2	-	-

INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN ENGINEERING AND TECHNOLOGY (ICRAET) 2019 - GLIMPSES



Inaugural of 2nd International Conference on Recent Advances in Engineering and Technology ICRAET 2019.



08.02.19_External participants had presented their innovative ideas during the International conference ICRAET 2019. The paper presentation took place in three tracks and the juries of the event were, Dr. M. Karpagam, Dr. S. Sasipriya, Ms. N. Kalaivani, Ms. D. Devi, Mr. R. Sarath Kumar, Ms. G. Surya.



09.02.19_Internal participants of the International Conference ICRAET 2019 had presented their papers. Students from all the years took part actively and presented their innovative ideas.

ICRAET 2019 IN MEDIA

சர்வதேச மாநாடு...



கோவை ஸ்ரீ கிருஷ்ணா பொறியியல் மற்றும் தொழில்நுட்ப கல்லூரியில் வெள்ளிக்கிழமை நடைபெற்ற சர்வதேச மாநாட்டை குத்துவிளக்கேற்றி துவக்கி வைக்கிறார் ராபர்ட் பாஷ் நிறுவனத்தின் பொறியியல் பிரிவின் தலைவர் புருஷோத்தமன் ரங்கநாதன். உடன், கல்லூரியின் முதல்வர் ஜே.ஜெனட் உள்ளிட்டோர். இந்நிகழ்ச்சியில் ஸ்ரீ கிருஷ்ணா கல்வி நிறுவனங்களின் நிர்வாக அறங்காவலர் எஸ்.மலர்விழி, இங்கிலாந்து நாட்டின் டெர்ஹாம் பல்கலைக் கழக பேராசிரியர் சைமன் ஹாக் உள்ளிட்டோர் கலந்து கொண்டனர்.

SKI hosts Intl conference on tech

**DC CORRESPONDENT
COIMBATORE, FEB 8**

Sri Krishna College of Engineering and Technology organised the second edition of international conference on 'Recent Advances in Engineering and Technology ICRAET 2019' between Thursday and Saturday.

Head of Engineering at Robert Bosch Engineering and Business Solutions, Coimbatore, Mr Purushothaman Ranganathan participated as chief guest.

In his address he spoke on about the automotive future technologies and how green house gas will play an important role in job sectors. Chairperson and managing trustee of Sri Krishna Institutions (SKI) Mrs S. Malarvizhi presided over the function and delivered presidential address.

At the 'ICRAET 2019' around 1,400 research papers were received from researchers, industrial delegates, members of faculty, and students from educational institutions from across the globe. After three levels of evaluation and scrutiny by experts, 380 papers were selected and presented at the conference.



Dignitaries at the Sri Krishna College of Engineering and Technology organised International Conference in Coimbatore.

- DC

CONFERENCE / SEMINAR / WORKSHOP ORGANIZED

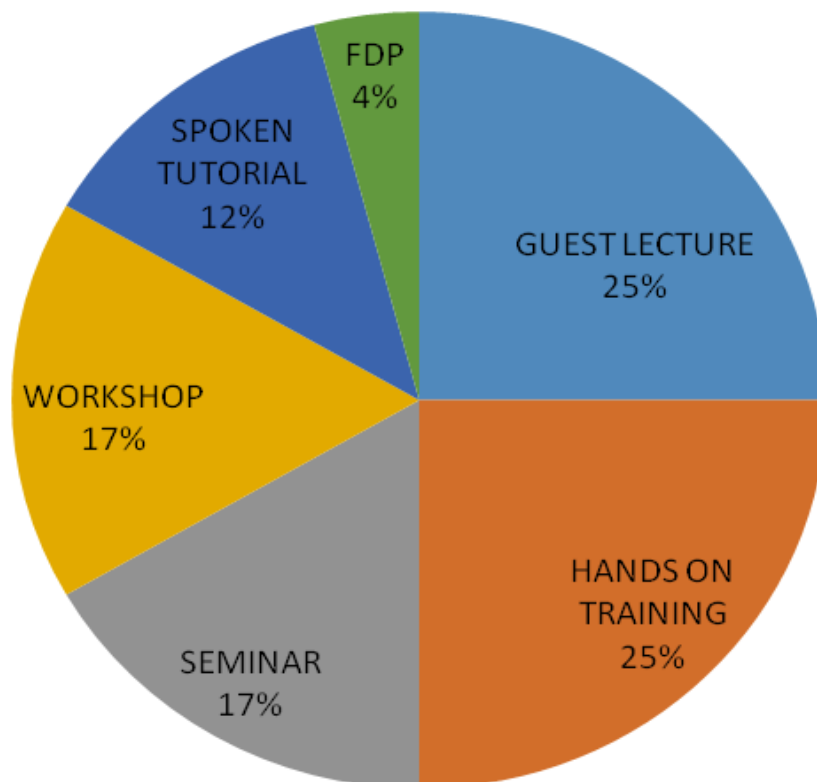
S.N O	FACULTY NAME	DATE	TOPICS	CHIEF GUEST/ RESOURCE PERSON
1.	Ms. D.V. Soundari.	12.06.18 – 13.06.18	FDTP on "ANNA UNIVERSITY Sponsored Short Term Course on Digital Signal Processing"	-
2.	Ms. D. A. Janeera Ms. D. Ruth Anita Shirley	06.07.18	Guest Lecture on Potential Job Opportunities in Animation and Gaming Sector	Mr. Jabeer Khan, CEO of Doodle Mango
3.	Dr. D. Selva Kumar	14.07.18	Spoken Tutorial Online Test on SCILAB	-
4.	Dr. S. Sophia Mr. S. Satheesh Kumar	28.07.18	Hands-on in ARM and Raspberry Pi by trainers from LIVEWIRE Technologies.	-
5.	Ms. D. Devi	30.07.18	Guest Lecture on Placement Opportunity in IT sector	Mr. Ganesh, Head operation, TCS, Thailand
6.	Ms. D. Devi	24.08.18	Hands on Session in Real Time Application of MATLAB Related projects	-
7.	Mr. R. Sarath Kumar	31.08.18	Hands on Training on Interfacing using 8051 and ARM	Mr. Nagasudhan from RAANAA Semiconductors, Hosur.

8.	Dr. V. R. Balaji	03.09.18	Guest Lecture on Latest Trends and Developments in Information and Communication Engineering	Mr. S. Sundaramoorthy , CEO Sunshiv Electronics Solutions
9.	Dr. S. Sophia	04.09.18	Seminar on Antenna for 5G	Dr. T. Shanmuganatham, Professor, Pondicherry University
10.	Mr. R. Sarath Kumar	08.09.18	Demo Session on MSP430	-
11.	Ms. G. Surya	15.09.18	Seminar on Higher Education Opportunities Abroad	Mr. Dinesh, Edwise International, Coimbatore.
12.	Dr. M. Karpagam Mr. R. Sarath Kumar Mr. J.R. Dinesh Kumar	27.09.18	Seminar on Automation Trends in Software Development	Mr. Ramesh, Head Of Engineering, Automotive Steering, Bosch, Coimbatore
13.	Dr. V. R. Balaji Mr. S. P. Karthi	28.09.18 & 29.09.18	Hands on Training on Embedded System Design using Raspberry Pi	Mr. Praveen, Embedded Engineer, Beta Technologies, India Pvt Ltd., Coimbatore.
14.	Dr. C. Thirumaraiselvi Ms. D. V.	29.09.18	Hands on Training on Cadence	Mr.J. Naveen Shanker, Field Application Engineer,

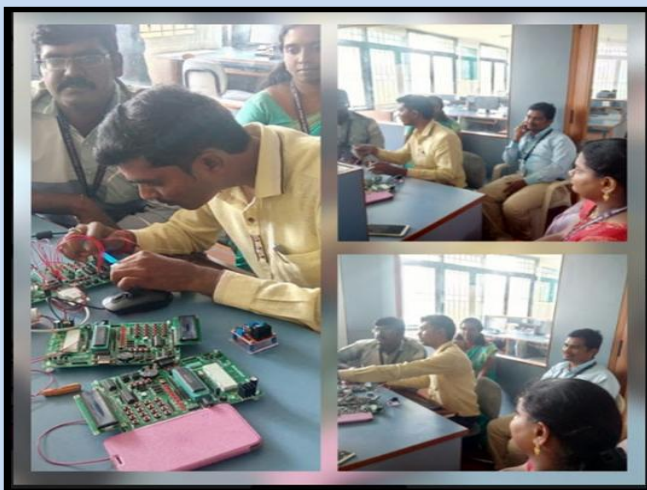
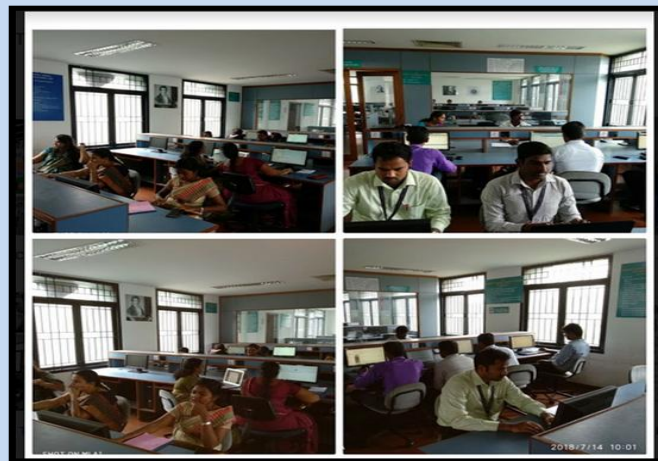
	Soundari			Cadence, Entuple Technologies, Coimbatore.
15.	Dr. S. Sasipriya Ms. C. Senthamil Arasi	04.10.18	Guest lecture on “FPGA based Medical Electronic Devices for Health care Applications” for III year Students	Dr. C. Lakshmi Deepika, Associate Professor, Department of ECE, PSG College of Technology
16.	Dr. D. Selva Kumar Ms. N. Nanthini Ms. M. Nidhiya Aravind	12.10.18 – 13.10.18	Workshop on “Mobile Making & IOT” for II & III year Students	Mr. Umesh, India Technology
17.	Dr. V. Nandalal Mr. C. Visvesvaran	17.10.18	Workshop on “Basic Design & Analysis of RF / Microwave Antenna using M2M – LORA”	Dr. Vimaalathithan Rathinasabapathy
18.	Ms. D. Devi Ms. N. Kalaivani	19.01.19	Guest Lecture on “Preparation for Interview and Work Life Balance”	Mr. Felix Kingsley, Senior Associate, CTS.
19.	Ms. D. Devi Ms. N. Kalaivani	16.02.19	Guest lecture on “Essential Skill Requirements in Software Product Development”	2016 batch alumnus Mr. K. Madhura Ganesh, Software development engineer, Amazon Development

				Center, Chennai
20.	Dr. S. Sasipriya Mr. J. R. Dinesh Kumar Ms. A. Anie Selva Jothi Ms. J. Jeya Padmini	22.02.19	Two days Workshop on “Mobile App Development”	Mr. Prasanth, Design Engineer from Big Data Labs Pvt Ltd., Coimbatore
21.	Dr. V. R. Balaji Mr. V. Karthik.	26.02.19	One day Hands on Training and workshop on “Embedded System Design Using Arduino”	Experts from Beta Technologies Pvt. Ltd, Coimbatore
22.	Dr. V. Nandalal Ms. P. Anitha	27.02.19	“IEEE Student Membership Initiation Program”	Dr. Ramalatha Marimuthu, Board of Governors, Computer Society, IEEE
23.	Mr. V. Karthi Mr. S. Karthik	25.03.19	Spoken Tutorial Workshop on SCILAB conducted by IIT ,Bombay	-

S.NO	EVENT NAME	COUNT
1	GUEST LECTURE	6
2	HANDS ON TRAINING	6
3	SEMINAR	4
4	WORKSHOP	4
5	SPOKEN TUTORIAL	3
6	FDTP	1

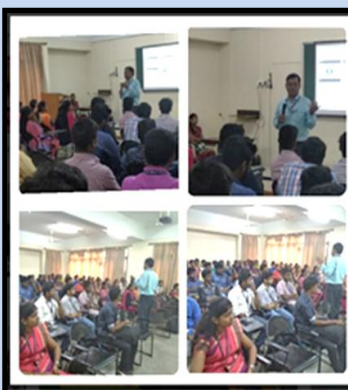


GLIMPSES OF EVENTS ORGANIZED





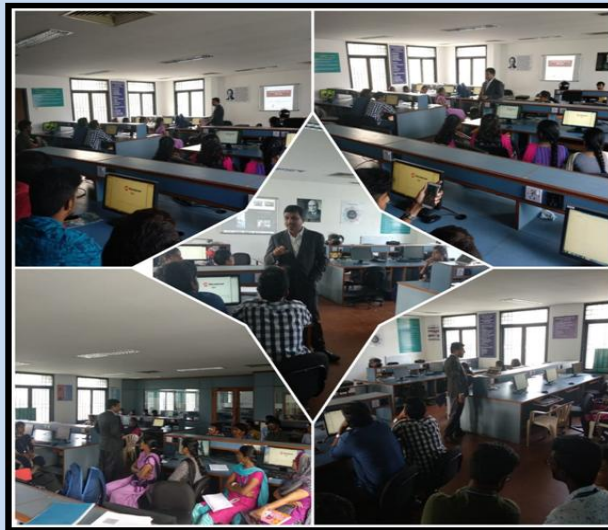
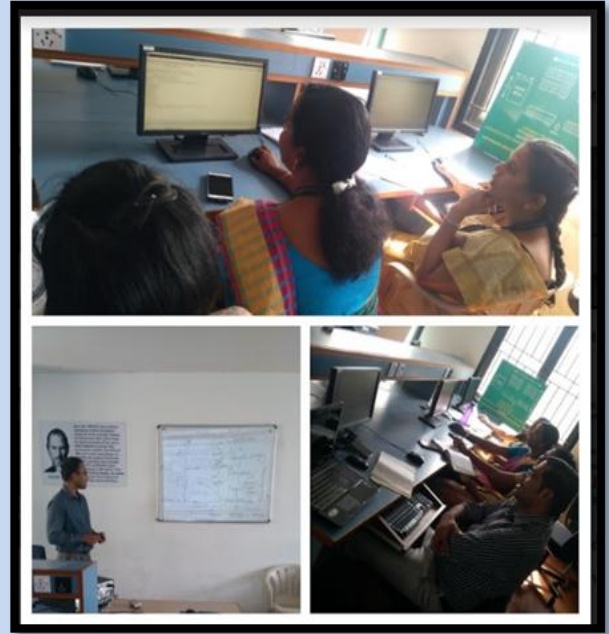
Sri Krishna College of Engineering & Technology
Department of Electronics & Communication Engineering
We cordially invite you for the seminar on
Higher Education Opportunities Abroad
Edwise International
15-09-2018 9:15 am Venue C-211



Sri Krishna College of Engineering & Technology
Department of Electronics & Communication Engineering
We Cordially invite you for the Seminar on
Automation Trends in Software Developments
By Mr. Ramesh
Date & Timing : 27.09.18 & 4.00pm to 4.45pm
Venue : MCA Seminar Hall

SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY
Department of Electronics & Communication Engineering
We Cordially invite you for the Hands on Training in
Embedded System Design using Raspberry Pi
By Beta Technologies India Pvt Ltd., Coimbatore
28 & 29 Sep 2018 Venue: SGP LAB







SRI KRISHNA INSTITUTIONS
Sri Krishna College of Engineering & Technology
The Autonomous Institution
Accredited by AICTE with 'B' Grade - Accredited by NICEE, ECE, PE, NIELIT & IITD
Affiliated to Anna University, Chennai.
Kannurambur, Coimbatore - 643008

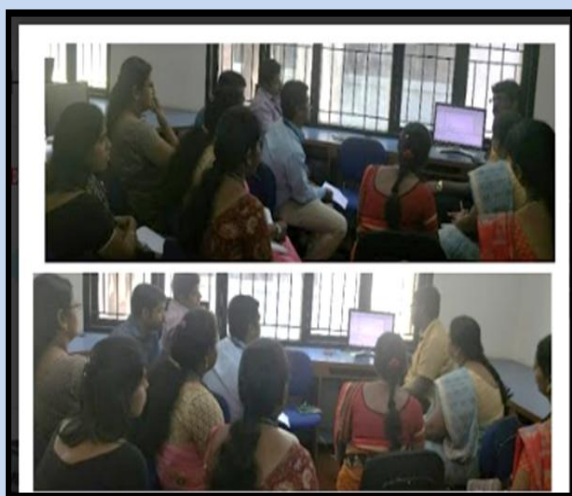
IEEE Student Branch (IEEE -STB 61261)
*The Staff and Students
Welcome you all to the*



*IEEE Student Membership
Initiation Program*

Date : 27.02.2019
Time :3.30 pm to 4.30 pm
Venue : BS -03

LevenschImages.net



CLUB ACTIVITY ORGANIZED BY FACULTY



06.07.18- Guest lecture on “Potential Job Opportunities in Animation and Gaming Sector” by Mr. Jabeer Khan, CEO of Doodle Mango. II ECE and IT students participated in this event.

11.08.18- Smart Board games for II ECE students. This fun activity helps in increasing student’s concentration power and timing management.



15.09.18- Quick Maths Puzzle for III ECE students to enhance their aptitude skills for placement.



09.02.19- fun events was organized like balloon catch dance. Students participated enthusiastically and enjoyed the event.

23.02.19-Treasure hunt for I year ECE students to explore about the department and its various infrastructures.



09.03.19 - Hands-on session in ARM and Raspberry Pi for II year ECE Students by trainers from livewire technologies.

**CONFERENCE / SEMINAR / WORKSHOP
ATTENDED**

S.N O	FACULTY NAME	TOPICS	DATE	INSTITUTION /INDUSTRY NAME
1.	Dr. V. Nandalal Dr. D. Selva Kumar Ms. G. Surya Ms. C. Senthamil Arasi Ms. B. Vidhya Ms. N. Nanthini Ms. I. Roshini Ms. A. Anie Selva Jothi Ms. M. Nidhiya Aravind Ms. S. Praseetha Ms. J. Jeyapadmini Ms. K. Priyadharsini Mr. J. R. Dinesh Kumar Ms. P. Anitha Ms. S. Nikilla	FDTP on "Anna University sponsored short term course on digital signal processing"	11.06.18 – 17.06.18	Sri Krishna College of Engineering and Technology
2.	Ms. D. V. Soundari Ms. Rajeswari Aravind Mr. S. P. Karthi	FDP on "NITTTR 5 days program on IoT Applications using LABVIEW"	18.06.18 - 22.06.18	Sri Krishna College of Engineering and Technology

	Ms. N. Nanthini Ms. K. Priyadharsini			
3.	Ms. D. A. Janeera Ms. S. Praseetha Ms. D Ruth Anita Shirley	Soft Skills Development by Infosys Pvt. Ltd.,	14.06.18 - 15.06.18	Sri Krishna College of Engineering and Technology
4.	Ms .I. Roshini Ms. J. Jeya Padmini Ms. S. Nikilla	FDP on "AICTE/ISTE sponsored induction /refresher program on Machine learning Techniques for Next Generation Smart Systems"	18.06.18 - 23.06.18	Sri Krishna College of Technology
5.	Ms. M. Nidhiya Aravind Ms. S. Praseetha	FDP on "Machine learning Using Python"	21.06.18 - 23.06.18	Sri Ramakrishna Engineering College
6.	Ms. P. Anitha	2018 International Conference on Clinical and Image Analysis (ICCMIA)	27.07.18	Karunya Institute of Technology and Sciences, Coimbatore
7.	Ms. A. Anie Selva Jothi Ms. J. Jeya Padmini Ms. I. Roshini Mr. S. Satheesh Kumar	Short Term Course on Cyber Crime and Forsenic Tools	17.09.18 - 21.09.18	SKCET in Collaboration with NITTTR, Chandigarh

8.	Ms. D. A. Janeera	Seminar on Cognizant AI & Analytics, Tableau Partner Day	18.09.18	Chil -Sez, Coimbatore
9.	Dr. D. Selva Kumar	STEM Teacher Training workshop on Research based Pedagogical Tools(Level 1)	23.09.18 – 26.09.18	Kolkata, West Bengal
10.	Ms. N. Kalaivani	Workshop on IoT	27.09.18	Sri Krishna College of Engineering and Technology
11.	Dr. V.R. Balaji Ms. S. Nikilla Ms. N. Nanthini Ms. D. A. Janeera Ms. D. Ruth Anita Shirley Ms. D. V. Soundari Ms. C. Senthamil Arasi Mr. S. P. Karthi Mr. J. R. Dinesh kumar Ms. K. Priyadarshini	Hands on Training on Cadence	29.09.18	Sri Krishna College of Engineering and Technology
12.	Dr. S. Sasipriya Ms. J. Jansi Rani Ms. D. Devi Ms. N. Kalaivani Ms. G. Saranya Ms. A. Anie	Workshop on MATLAB	29.09.18	Sri Krishna College of Engineering and Technology

	Selva Jothi Ms. B. Vidya Ms. I. Roshini Ms. A. Wims Mary Magdalene Ms. M. Nidhiya Aravind Ms. S. Praseetha Ms. J. Jeya Padmini			
13.	Dr. S. Sophia	Nvidia Industry Connect - Lecture on AI, ML, DL, IoT, by experts from Nvidia, Wipro and Bahawan Cybertek	08.10.18	ICT ACADEMY, Taj Vivanta, Coimbatore.
14.	Dr. V. Nandalal Mr. S. Satheesh Kumar	STTP on Frontiers in Microwave	22.10.18 - 27.10.18	IIT Madras, Chennai
15.	Dr. V. R. Balaji Mr. J. R. Dinesh Kumar	TEQIP sponsored workshop on IoT and Cloud	15.11.18 - 16.11.18	Thiagarajar College of Engineering, Madurai
16.	Ms. N. Kalaivani	One week Short Term Trainig Program on "Correlation of AI and ML in Research Perspective	03.12.18 - 09.12.18	Coimbatore Institute of Technology, Coimbatore.
17.	Ms. U. Vanitha	Three days FDP on Emerging Trends In Optical Technologies with hands on training	06.12.18 - 08.12.18	Vellore Institute of Technology, Chennai.
18.	Ms. S. Karthika	Three days International Workshop on Smart Material Sensor And Energy Devices	06.12.18 - 08.12.18	SSN College of Engineering, Chennai.

19.	Dr. J. Rejina Parvin	National level Faculty Development Program on “Demystifying Machine Learning”	10.12.18 - 14.12.18	Amrita Vishwa Vidyapeetham, Coimbatore.
20.	Ms. J. Jansi Rani Ms. S. Praseetha Ms. I. Roshini Ms. D. Ruth Anita Shirley Ms. J. Jeya Padmini	6 days FDP of Managerial Skills Conducted by NITTTR, Chandigarh	10.12.18 - 15.12.18	SKCET
21.	Dr. S. Sophia	Leadership Conclave on “The Future of Higher Education”	13.02.19 - 14.02.19	The Residency Towers , Coimbatore
22.	Ms. P. Anitha	Guest Lecture On “Advanced VLSI Design Techniques”	09.03.19	Info Institute of Engineering, Coimbatore.
23.	Dr. V. Nandalal	5 days STTC on “EMF, Microwave, RF & Antenna Design using Ansys HFSS tool Flow”	25.03.19 - 29.03.19	Entuple Technologies, Bangalore
24.	Dr. S. Sophia	International Conference on Emerging Techniques in Engineering Technology and Management (ICEETM - 19)	23.03.19	Rathinam Institute of Management and Rathinam Technical Campus, Coimbatore
25.	Mr. J. R. Dinesh Kumar Mr. C.	Tektronix Measurement Seminar themed on "Smart Lab Systems and Lab	11.04.19	The Residency Towers , Coimbatore

	Visvesvaran	Workflow Management"		
26.	Dr. V. R. Balaji	Education Conclave Conducted By COMPTIA	16.04.19	The Residency Towers, Coimbatore
27.	Dr. M. Karpagam	AICTE sponsored workshop on Examination reforms	08.05.19	PSG College of Technology, Coimbatore

Glimpse of Events Attended By Faculty







STUDENTS' LAURELS



Mr. Vignesh Subramanian of IV year has participated in Auto-Sol, at Aachen Germany, June 2018

Mr.S. Akilesh of III Year ECE Represented Indian Team in the Indo-Nepal International Youth Sports Tournament



Students Mr.Vijay Kumar IV ECE, Mr.. Santhosh III ECE, Mr. Revanth and Mr. SuriyaPrakash II ECE were part of the SKCET Volley Ball team and won the SNR Chinnasmay Memorial Trophy held at Sri RamaKrishna Engineering College.



Mr. Pratheep Kumar of II ECE got selected in the Handloom Fashion Show Prelims organized by SKCET in association with Makkal Sevai Mayyam.

Mr S. Akilesh of III ECE along with SKCET Foot ball team bagged the runner up in the KPR trophy in Football held at KPRIT.



Mr. Pratheep Kumar of II ECE bagged 3rd Prize in Handloom Fashion show held at Hindusthan College of Engineering.



Students from III ECE participated in SAE India Aero Design Challenge 2018 and bagged 5th place among 117 teams across the country.

Ms. Janani of III ECE and Ms. Nishitha, of II ECE bagged the KPR Trophy in Table Tennis.



Mr. Gowtham of III ECE bagged 1st prize at KCT KICS, 2018 in Karate.

Students of II, III and IV ECE participated and won the runners up at KCT Volleyball Trophy.





Mr. S. Akilesh of III ECE won the first prize in State level Football Brotherhood Trophy 2018.



Ms. R.G. Janani of III ECE B & Ms. S. Nishitha of II ECE B bagged the State Level Runner Up in the Table Tennis event held at VIT, Chennai.

Students from II year ECE participated in the Tractor event held at SRM University, Chennai.



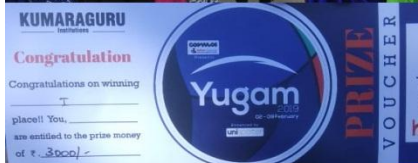
Mr. S. Akilesh of III ECE A and Mr. R. Vigneshwara of II ECE C won the winner's trophy in foot ball match held at CIT.



GLIMPSSES OF STUDENT ACHIEVERS



GLIMPSSES OF WINNERS AT VARIOUS EVENTS



DARSHAN 2019 AWARD WINNERS

S.NO	NAME OF THE STUDENT	YEAR OF STUDY	AWARD	PRIZE AMOUNT
1.	Praveen N S	IV ECE	Best Outstanding Student Award	5000
2.	Harishkar Nm	III ECE	Smart India Hackathon Award	1,00,000
3.	Harish Babu K	III ECE		
4.	Preethi S	II ME AE		
5.	Mathivathani S	II ME AE		
6.	Susma Rao N	II ECE	Best Library User Award	Book, Certificate
7.	Suruthi.R	I ECE	Academic Excellence Award	Shield
8.	Kaviya Sree.B			
9.	Kavya.M			
10.	Muthu Brindha.G			
11.	Srikanth.V			
12.	Varshini.G			
13.	Susmaa Rao N	II ECE	Academic Excellence Award	Shield
14.	Keerthana E			
15.	Kaviarasu S			
16.	Shaalini S			
17.	Pooja Shruti P	III ECE	Academic Excellence Award	Shield
18.	Indira Hamshalakshmi R			
19.	Aarthi P			
20.	Amirthaa Sri K S	IV ECE	Academic	Shield

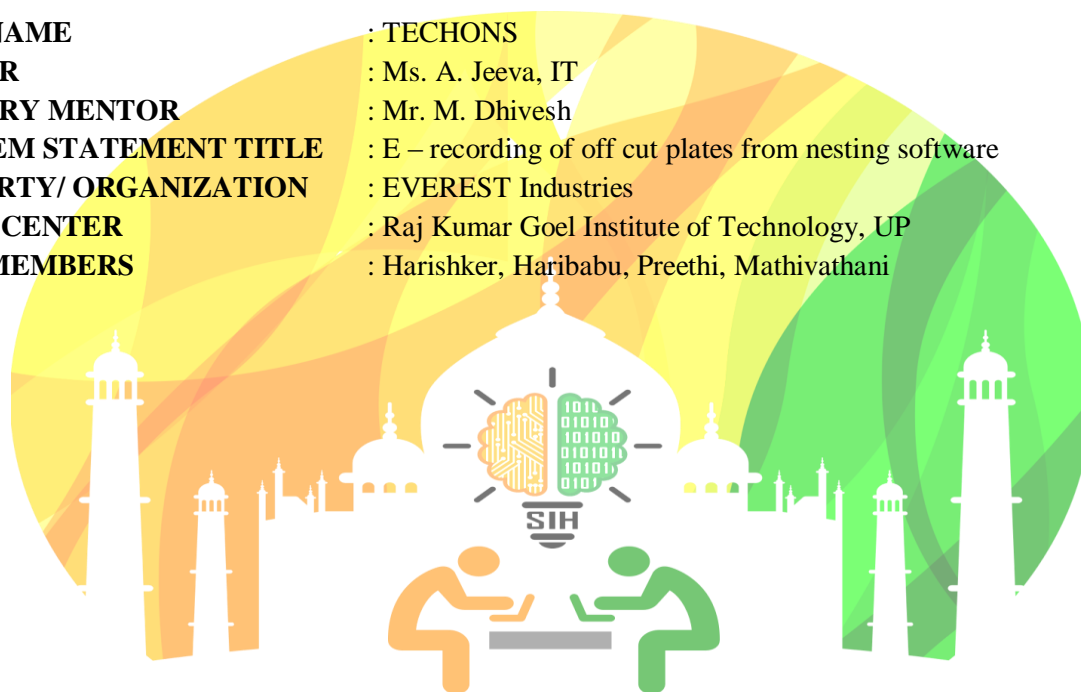
21.	Anusha M		Excellence Award	
22.	Kaveeyavani R S			
23.	Anusuya A	II ME CS	Academic Excellence Award	Shield
24.	Benedict Tephila			
25.	Preethi S	II ME AE	Academic Excellence Award	Shield
26.	Padma Priya R			
27.	Mr.K.Harish Babu	III ECE	Achievers award – national level – VIT hackathon	5,000
28.	Mr.N.M.Harishkar	III ECE		
29.	Ms.S.Preethi	II ME AE		
30.	Mr.L.Vignesh	III ECE	Achievers Award – National Level SRM Hackathon, IIT Kanpur National Level Hackathon	5,000
31.	Ms.G.Suvathy,	III ECE		
32.	Ms.A.Shanlini	III ECE		
33.	Mr. V. Vigneshwaran	III ECE		
34.	Mr.L.Thriakeshwar	III ECE		
35.	Harish Babu K	III ECE	SAE India Aeromodeling	25,000
36.	Akshaya Anand	III ECE		
37.	Kalaiselvan S	III ECE		
38.	Vasudevan M	III ECE		
39.	Shyam S	III ECE		
40.	Fahima F	III ECE		
41.	Jaisree S.B	III ECE		
42.	Ram Sabari Kumar S	IV ECE	Best Project Award	Certificate
43.	Siddharth S	IV ECE		
44.	Vikram Vigneshwar R	IV ECE		
45.	Renjitha R	II ME CS		
46.	Preethi S	II ME AE		

GLIMPSES OF HACKATHON WINNERS

SMART INDIA HACKATHON 2019 WINNERS



TEAM NAME	: TECHONS
MENTOR	: Ms. A. Jeeva, IT
INDUSTRY MENTOR	: Mr. M. Dhivesh
PROBLEM STATEMENT TITLE	: E – recording of off cut plates from nesting software
MINISTRY/ ORGANIZATION	: EVEREST Industries
NODAL CENTER	: Raj Kumar Goel Institute of Technology, UP
TEAM MEMBERS	: Harishker, Haribabu, Preethi, Mathivathani



SMART INDIA
HACKATHON 2019

*GLIMPSES OF STUDENTS PARTICIPATION IN SRM
HACKATHON*



Students from III ECE C won the 5th place among 150 teams in SRM hackathon held at SRM University

*GLIMPSES OF STUDENTS PARTICIPATION IN VIT
HACKATHON*



Students from ECE department won the 5th place among 125 teams and also bagged the Best Innovation Award in the VIT Hackathon held at VIT, Chennai.

INTERNSHIP AND IN-PLANT TRAINING

Students of I, II & III year had undergone 21 days of internship under various phases in the following companies

S.N O	COMPANY	TOTAL NUMBER OF STUDENTS ATTENDED IN-PLANT TRAINING
1.	BSNL	78
2.	EMBEDDED	39
3.	PCB DESIGN	35
4.	SWACHH BHARAT SUMMER INTERNSHIP 2018	18
5.	SUNSHIV & PANTECH SOLUTIONS	15
6.	DAGSLORE TECHNOLOGY	14
7.	ZOHO	14
8.	DAGSWARE	8
9.	PIC MICROCONTROLLER	7
10.	SEYYONE SOFTWARE SOLUTIONS	6
11.	CODEBIND TECHNOLOGIES	6
12.	FALZER ELECTRONICS	4
13.	METALLURGICAL ENGINEERING INDUSTRY	4
14.	VALUE LABS	4
15.	CTC TRAINING	3
16.	SOLITON	3
17.	SUNSHIV ELECTRONICS	2
18.	SALZER ELECTRONICS	2
19.	TECHNOPAC	2
20.	ALL INDIA RADIO	2
21.	SQM TECHNOLOGIES	2
22.	ASTRAZENECA	2
23.	QUBERCOMM	2
24.	FRESH WORKS	2
25.	COMMUNICATION AND EMBEDDED SYSTEM	1

26.	EMBEDDED SYSTEM ON PIC MICROCONTROLLER	1
27.	KASSHIVINFOTECH	1
28.	NATIONAL GRAPHICS	1
29.	HINDUSTAN MEDICAL SYSTEMS	1
30.	NSP SOLUTIONS	1
31.	TECHSPINE SOLUTION	1
32.	APPIN	1
33.	LITZ TECHNOLOGIES	1
34.	BRINN TECHNOLOGIES	1
35.	ZILKER	1
36.	VURAM	1
37.	ASPIRE SYSTEMS	1
38.	ODESSA	1
39.	VAKIL SEARCH	1
40.	FOURKITES	1
41.	AMAZON	1
42.	LOGBASE	1
43.	CLOUD ASSET	1
44.	AMPHISOFT	1

PLACEMENT ACTIVITY



30.06.18_IV year ECE students gave Hands on Training about the usage of Hackerrank, as a part of the pre-placement training to III year ECE students

26.07.18-Mock Interview was conducted for IV year students as a part of their Placement training.



18.08.18_IV ECE students

06.08.18_IV ECE students attending MOCK INTERVIEW stage-I, as a part of their Day-I placement training.

attending **MOCK INTERVIEW** stage-II, as a part of their Day-I placement training.



08.09.18_IV year ECE students attended the **WIPRO PRP** - company specific training as a part of their placement training activity.

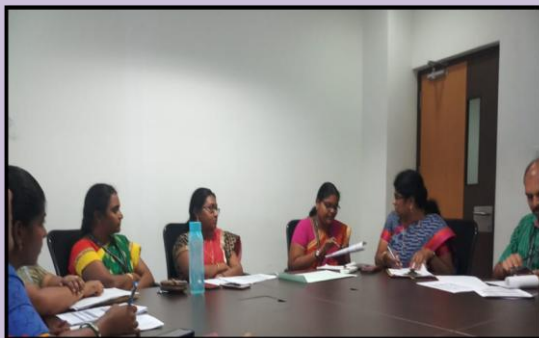
26.09.18_ Dr. S. Sophia, Professor & Head, ECE had addressed the **III** year students about the importance of placements, academic performance, credit courses, internships and other curricular activities.





03.10.18_ Dr. S. Sophia, Professor & Head, ECE addressed the students of III year about the road map events regarding placement for the upcoming academic year 2019-20.

23.10.18_ III year ECE students were addressed by the officials from NASSCOM regarding their future placement skills.



26.02.19_III year tutors and year coordinators had a meeting with the placement coordinator Dr. Jayasudha, regarding III year placement for the academic year 2019-2020.

21.02.19_ III year ECE students had undergone Aptitude training session handled by Mr. Thanikachalam. The students were given training on various shortcuts and easy way of solving the problems in aptitude and logical reasoning.



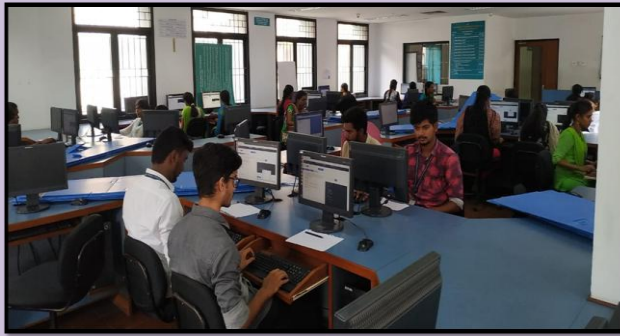
Final year students had attended the Accenture Pre-On-boarding meet at the Convention centre.



05.03.19_ students of III ECE had taken the AMCAT Test.

19.03.19_ Second and Third year students had made their registration in the TCS EngiNx 2019, which is an Engineering Innovation contest from TCS - Engineering and Industrial Services & Internet of Things Business Units. This year the contest theme is, Digital Eminence: Making Things Smart. TCS EngiNx is an opportunity for Engineers across India to bring out the innovation and creativity and compete for the best in class products for the future.



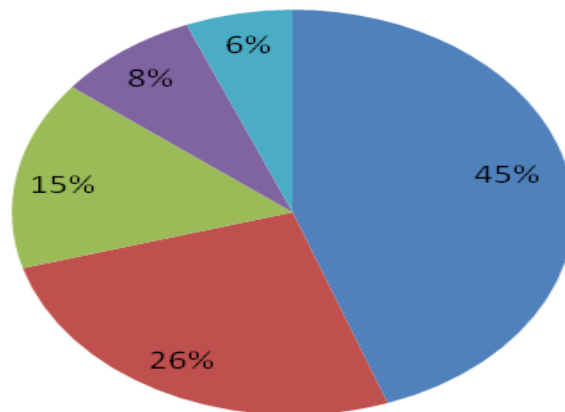


29.04.19_Students of III ECE had taken the preliminary test conducted for SOLITON drive.

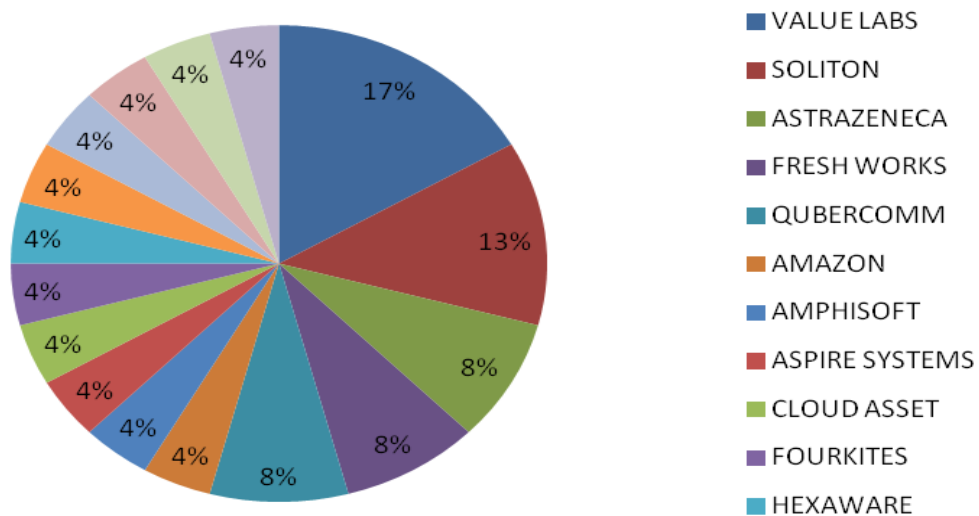
The ratio of students placed in various top rated companies.

Day -1 Companies

ACCENTURE CTS TCS ZOHO WIPRO



Product Based Companies



S.NO	COMPANY NAME	TOTAL NUMBER OF STUDENTS PLACED
1.	ACCENTURE	65
2.	CTS	38
3.	TCS	22
4.	ZOHO	12
5.	WIPRO	9
6.	VALUE LABS	4
7.	SOLITON	3
8.	ASTRAZENECA	2
9.	FRESH WORKS	2
10.	QUBERCOMM	2
11.	AMAZON	1
12.	AMPHISOFT	1
13.	ASPIRE SYSTEMS	1
14.	CLOUD ASSET	1
15.	FOURKITES	1
16.	HEXAWARE	1
17.	LOGBASE	1
18.	ODESSA	1
19.	VAKIL SEARCH	1
20.	VURAM	1
21.	ZILKER	1

ALUMNI INTERACTION



03.06.2018_ Alumni Sujatha and Keerthana employees of SOLITON pvt. Ltd., Coimbatore interacting with the IV year ECE students about their work experience at the company

17.10.18_ Students of II year ECE had Skype Interaction with our Alumni Mr. Senthil and Mr. Saravanan Marathamuthu of Digi Connect, regarding student project.



29.12.18_ Alumini Meet was organized at SKCET campus, the passed out students had spent their time with friends and faculty.



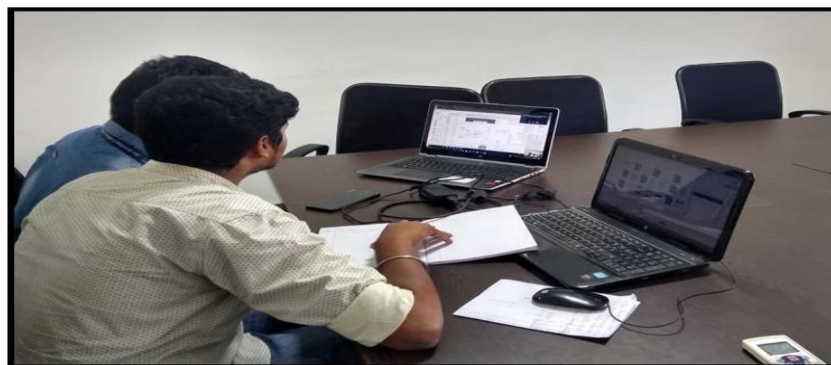
19.01.19_Guest lecture on “Preparation for Interview and Work Life Balance” was organized by Professor D. Devi and Professor N. Kalaivani. The lecture was presented by the alumni Mr. Felix Kingsley, Senior Associate, CTS.

16.02.19_ 2016 batch alumnus Mr. K. Madhura Ganesh, Software development engineer, Amazon Development Center, Chennai, had addressed the students and presented a guest lecture.



04.05.2019_Facebook Developer circles Coimbatore conducted F8 2019 Extended at our Campus. The event was held to promote new age technology among people. Facebook Developer circles Coimbatore also launched JavaScript 360 series where everyone can learn JavaScript for free. The resource person Mr. Fahid, SDE from Rapido kick starting the JS 360 program.

INDUSTRY INSTITUTE INTERACTION

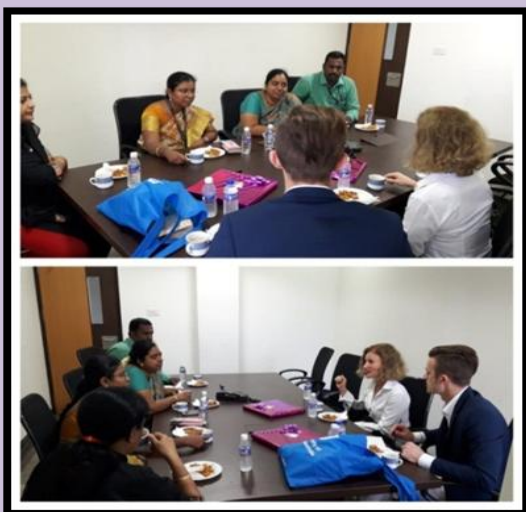


28.03.19_II year students had a project discussion with the Industrial experts as a part of their In house industrial project in Skype mode. Our Alumni Mr. Saravana Maruthamuthu, Project Engineer, Continental, Germany discussed about the technical aspects and the material support was extended by the alumni Mr. Srihari and Mr. Ram Sabarish.

SYLLABUS DISCUSSION WITH DELEGATES



04.09.18_As per the CBCS, syllabus discussion was made with Dr. T. Shanmuganatham, Professor, Pondicherry University, Dr. Gunaseelan, Assistant Professor, Anna University, Chennai and Dr. T. Veera Kumar, NIT, Goa. The Head of the Department ECE, Dr. S. Sophia and the senior faculties from the department had a brief discussion about the syllabus up gradation and inclusion of the current technologies in the syllabus.



26.09.18_Syllabus discussion was held with delegates from University of South Australia. Various opportunities available in the foreign university and the culture of Teaching Learning process were also analyzed during the discussion.

23.10.18_ Mr. Pradeek Saxena, Sales Manager, Blending Learning Program from IEEE, highlighted about the various IEEE certified e-learning courses for circuit branches.



12.11.18_Cluster Heads and Faculty had discussion with Mr. Srihari from Digi Connect regarding Syllabus revamp for the upcoming semesters.





Faculty from ECE department had a discussion with the delegates from Foreign University about the opportunities available for the Indian students. The discussion also covered about the ongoing R&D programs in the university.

04.12.18_Cluster Heads and Faculty had discussion regarding Syllabus revamp for the even semester 2018-2019.



05.04.19_ ECE department Head Dr. S. Sophia along with the senior faculty had a discussion about revamping of Post Graduate syllabus, Applied Electronics and Communication Systems at the ECE Conference hall.

12.04.19_ A meeting on Syllabus finalization for 2019 batch was organized at ECE department conference hall.





26.04.19_ Department of ECE had conducted the Board of Study (BoS) meeting with the expert committee from various universities, along with Industrial Expert and Alumni of ECE. The meeting was attended by the senior faculties of the department along with the Chairman – BoS/ECE, Dr. S. Sophia Professor & Head, Dr. S. Uma Maheshwari, Professor, ECE, CIT, Coimbatore was the University Nominee. The academic experts were Dr. M. Arun, Associate Professor and Head, Department of Embedded Technology, VIT, Vellore and Dr. M. Nimala Devi, Vice Chairperson, Amrita Vishwa Vidyapeetham, Coimbatore. Mr. M. Shanmugan, Senior Manager – R&D Electronics, Roots Industries India Ltd., Coimbatore was the Industrial Expert. ECE alumni Dr. S. Mohandass, Assistant Professor, ECE, PSG College of Technology had attended the meeting.



26.04.19_Head of the department Dr. S. Sophia and Dr. M. Karpagam had a discussion with Dr. Srinivasa K G, Professor [IMCO], NITTTR, Chandigarh and incharge of NITTTR HUB. The focus of this meeting was to prepare a list of FDP's to be conducted at SKCET in association with NITTTR, Chandigarh. FDP identified to be conducted in contact and ICT mode are IoT, Block Chain, Deep Learning etc., Our college is the only “HUB” in Tamilnadu to conduct FDP for

technology teaching in association with NITTTR, Chandigarh. All the programs conducted are approved by AICTE.

VALUE ADDED COURSES

S.NO	NAME OF THE COURSE	GOVERNING BODY	NUMBER OF CANDIDATES REGISTERED
1.	NPTEL	AICTE - SWAYAM	350
2.	Spoken Tutorial On SCILAB	SWAYAM - MHRD	204

SUCCESSFUL COMPLETION OF NPTEL COURSES BY STUDENTS

S.NO	COURSE NAME	TOTAL STUDENTS REGISTERED	RESULT
1.	Advanced Topics in Probability and Random Processes	1	Successfully completed
2.	Analog Electronic Circuit	2	Successfully completed
3.	Digital Circuits	18	Successfully completed
		3	ELITE
4.	Introduction to Internet of Things	1	Successfully completed

		1	ELITE
5.	Introduction to Machine Learning	1	Successfully completed
		1	ELITE
6.	Introduction to Programming in C	2	Successfully completed
7.	Problem Solving through Programming in C	8	Successfully completed
		1	ELITE
8.	Programming, data structures and algorithms using Python	3	Successfully completed
		3	ELITE
9.	Semiconductor Devices and Circuits	1	Successfully completed
10.	Technical English for engineers	3	Successfully completed
		2	ELITE
11.	Advanced IOT Applications	1	Successfully completed
12.	Speaking Effectively	1	Elite+Silver

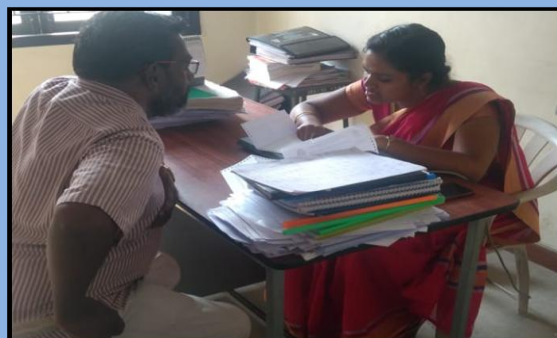
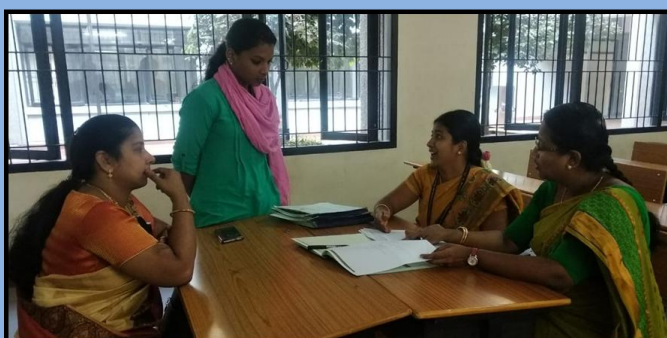
SUCCESSFUL COMPLETION OF NPTEL COURSES BY FACULTIES

S.NO	NAME	COURSE NAME	STATUS OF RESULT
1.	Dr. S. Karthika	Cloud Computing	Elite
2.	Ms. N.Kalaivani	Introduction to Machine Learning	Completed Successfully
3.	Ms. D.Devi	Digital Image Processing	Elite
4.	Ms. N. Nanthini	Leadership	Elite
5.	Ms. D. A. Janeera	Outcome Based Pedagogic Principles for Effective Teaching	Completed Successfully
6.	Ms. U. Vanitha	Fiber optic communication systems Digital Circuits	<i>Elite (Top 2% scorer)</i> <i>Elite (Top 5% scorer)</i>
7.	Ms. D.V.Soundari	Hardware Modeling using Verilog Leadership	Completed Successfully Elite
8.	Dr. C.ThirumaraiSelvi	Leadership Digital Image Processing	Both Elite
9.	Ms. B.Vidhya	Leadership	Elite
10.	Mr.J.R.Dinesh Kumar	Hardware Modeling using Verilog	Completed Successfully
11.	Ms.S.Nikila	Outcome Based Pedagogic Principles for Effective Teaching	Elite

12.	Ms. J. Jansi Rani	Discrete Time Signal Processing	Elite
13.	Mr. S. Satheesh Kumar	Analog Communication	Elite
14.	Mr. R. Sarath Kumar	1. Information Theory, Coding and Cryptography 2. Emotional Intelligence	Completed Successfully
15.	Dr. V. R. Balaji	1. Effective Engineering Teaching In Practice 2. Electronic Waste Management - Issues And Challenges	Elite+Silver
16.	Ms. G. Saranya	Electronic Waste Management - Issues And Challenges	Elite+Silver
17.	Mr. S. P. Karthi	Electronic Waste Management - Issues And Challenges	Elite

ACADEMIC REVIEW MEETINGS

Academic Review Meeting is organized every semester to develop a cordial relationship with the parents and to discuss about the performance of their wards



During the ARM meeting the Academic Toppers are appreciated and awarded with certificate.



SATURDAY ACTIVITIES



15.09.18_ Glimpses of Engineer’s Day Celebration by I, II & III year students. Various Technical and Fun Activities were conducted for the students and they have participated with enthusiastically.



16.02.2019_ As a part of Saturday activity Guest Lecture on “Essential Skill Requirements in Software Product Development” was organized for III ECE students where our 2016 batch alumnus Mr. K. Madhura Ganesh, Software Development Engineer, Amazon Development Center, Chennai, had addressed the students.



13.04.2019_As a part of Saturday activity and to enhance the students presentation and vocabulary skill a seminar presentation was conducted for I year ECE students. The students actively took part in the presentation and presented their pioneering ideas on various topics like 3D- BIO Printing, Blue Eye Technology, Neuro reality, CRISPER, AI in Health Care, DNA Technology, Nanobots etc.,. The presentation was peer reviewed by Professor G. Saranya.

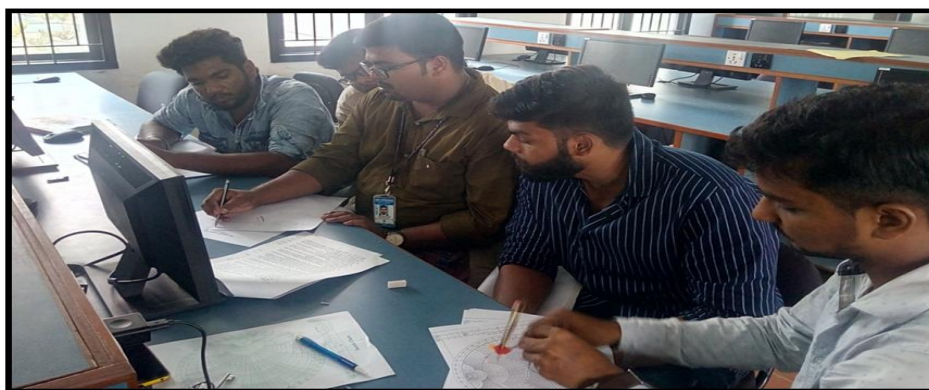
BRIDGE COURSE & EXTENDED HOUR CLASSES FOR STUDENTS



The I year students had attended the special coaching class for the subject Electron Devices and had discussion on Semiconductor Diodes and Special diodes with Ms. D. V. Soundari.



A special coaching class was organized for I year ECE students by Ms. B. Vidya for the subject ELECTRON DEVICES. During the class the students had a discussion on basics of semiconductor diodes.



An extended hour class was arranged for the second year students on the subject “Transmission Lines and Waveguides” by Mr. S. Satheesh Kumar, AP/ECE. The students have enthusiastically participated and clarified their doubts on Single stub matching and double stub matching in addition to Smith chart and Polar graph plots.



Bridge Course Class on Maths was conducted for the Lateral Entry students.

FACULTY LAURELS



20.11.2018_Dr. S. Sophia, Professor & Head of the Department, ECE awarded as the Star HoD for her outstanding contributions in the Institutional level and getting funds under various schemes like CSIR, WOS, MECON, MODROBS(AICTE).



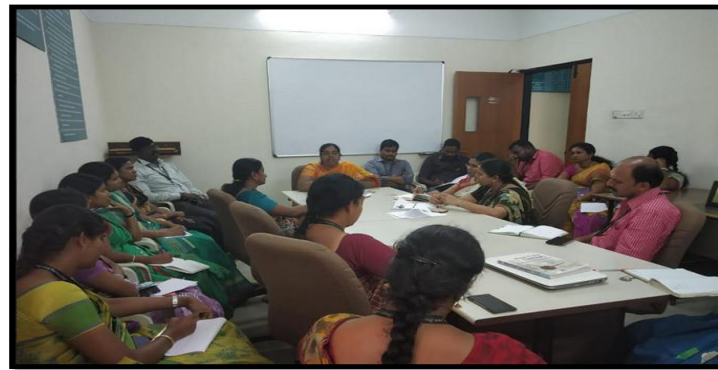
20.11.2018_Dr. S. Sophia, Professor & Head, Department of ECE and Dr. M. Karpagam, Professor/ECE, Dr. V. R. Balaji, ASP,ECE and Professor N. Girinath had received the Star performer award from our beloved Principal Dr. J. Janet.

DARSHAN 2019 AWARD WINNERS

S.NO	NAME OF THE STAFF	TITLE OF AWARDS, RECOGNITION, ETC.,	CERTIFICATION/ CASH	MONTH & YEAR
1.	Dr. S.SOPHIA	Proposal	Yes / Cash Award :5000	March 2019
2.	Dr. M. KARPAGAM	Best Faculty ECE	Yes / Cash Award :5000	March 2019
3.	Ms. N. KALAIVANI	Patent Publication award	Yes / Cash Award :5000	March 2019
4.	Mr. N.GIRINATH	Young Achieving faculty -Placement	Yes / Cash Award :5000	March 2019
5.	Mr. J. R. DINESH KUMAR	Young Achieving Faculty	Yes / Cash Award :5000	March 2019

DEPARTMENT MEETING ORGANIZED





ANNA UNIVERSITY RESEARCH SUPERVISOR

- ✚ Dr. S. Sophia
- ✚ Dr. S. Sasipriya
- ✚ Dr. V. Nandalal
- ✚ Dr. D. Selvakumar

FACULTY APPLIED FOR Ph.D

S.NO	FACULTY NAME	AREA OF RESEARCH
1	Mr. N. Girinath	VLSI
2	Mr. C. Visvesvaran	Networking

FACULTY COMPLETED Ph.D

S.NO	FACULTY NAME	AREA OF RESEARCH
1	Dr. C. Thirumarai Selvi	Certain Investigations on VLSI architecture for 2D TWT wavelet Transform and Entropy Coder
2	Dr. S. Karthika	Performance Enhancement of 4G LTE Network through Dynamic Resource Allocation

PROFESSIONAL BODY MEMBERSHIP

S.NO	FACULTY NAME	MEMBERSHIP
1	Dr. S. Sophia	Life Member of ISTE Life Member of IETE
2	Dr. M. Karpagam	Life Member of ISTE
3	Dr. S. Sasipriya	Life Member of ISTE Life Member of IETE Annual Member of IEEE Life Member of Society of Digital Information and Wireless Communications
4	Dr. V. Nandalal	Life Member of IEEE
5	Dr. V.R. Balaji	Life Member of ISTE Life Member of IAENG

6	Dr. D. Selvakumar	Life Member of ISTE
7	Ms. D.A. Janeera	Life Member of IET, IACSIT, IAENG,SDIWC, theRED
8	Ms. P. Anitha	Life Member of ISTE Life Member of IAENG
9	Mr. J.R. Dinesh kumar	Life Member of ISTE Life Member of IAENG

EDITORS / REVIEWERS FOR THE JOURNAL

S.NO	FACULTY NAME	JOURNAL
1	Dr. S. Sophia	IEEE access
2	Dr. S. Sasipriya	ITFR – International Journal of Imaging Science and Research IEEE International Conference on Computational Intelligence and Computing Research AEU-International Journal of Electronics and Computer Engineering – Elsevier Publisher
3	Dr. V. Nandalal	Journal of Optical Communication letters Journal of Wireless Communication Technology Journal of Electrical Engineering and Technology Wireless Personal Communication IEEE access International Conference on Intelligent Automation Systems
4	Dr. V.R.Balaji	IJST – International Journal of Science and Technology
5	Dr. D. Selvakumar	Journal of Alloys and Compounds
6	Ms. D.A. Janeera	International Journal Of Innovation in Engineering and Advanced Technology (IJEAT) International Journal of Advanced Trends in Computer Applications (IJATCA)

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Smart Thoughts: Brain Computer Interface Interventions

Your thoughts can make things happen. It's not a motivational message. Your thoughts can control the gadgets around you. It's not a magic. This is even beyond Siri or Google Assistant. We are talking about the next level of the technology. With lots of research happening in Brain Computer Interfacing (BCI), reading human thoughts is absolutely plausible. It is no more in the realm of science fiction. These thoughts can be interpreted in the form of text or speech. To add to it, with the advancements in Internet of things (IoT), the interpreted signals can act as commands to your very own smart environment and control the electronic gadgets around you.

For people with speech disorder, paralysis or impairment in motor functions, and such "locked-in" conditions, these interventions are a trump card. BCI technologies comprise of functional MRI and near infrared imaging, which assist in detection of brain waves based on the neuron activities. In 2016, Stanford researchers Krishna Shenoy and Paul Nuyujukian developed a BCI device using a brain implant which enabled monkeys to text at a fair rate of 12 words per minute. The monkeys were able to select letters by moving a cursor across a keyboard in one swipe. As surprising as it may sound, the monkeys were able to duplicate passages from the New York Times and Hamlet. This setup can be a boon to people with hurdles in movement to communicate and reach out efficiently.

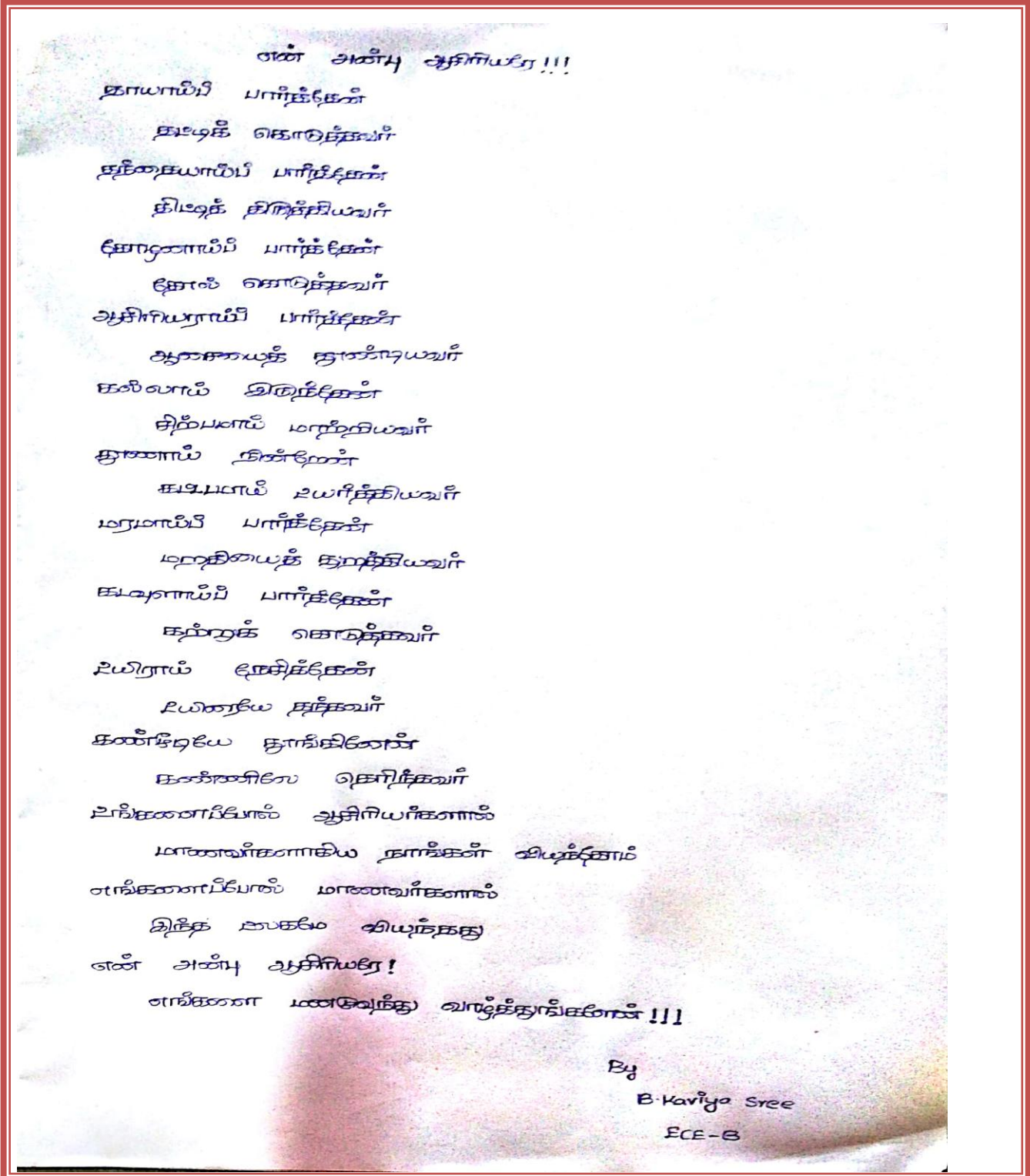
BCI in combination with functional electrical stimulation (FES) can assist recovery of stroke victims to use their paralyzed limbs even after many years. Magnetic resonance machine helps in learning what song a participant was listening to by just reading their mind. These mind boggling researches on inner speech and reconstruction of auditory imagination widens the horizon of BCI applications. Scientific American, a popular US based science magazine reported in 2017 that Facebook is working on a BCI mechanism that enables users to type with their thoughts at a speed of up to 100 words per minute. The gear would be a wearable head band which works on the concept of optical imaging which overpowers the high fidelity signals like EEG and fMRI.

BCI has evolved from huge caps with numerous electrodes to small sized headband and ear clips. With all these research and developments in over five decades, it is evident that Brain-computer interface is a field that can kindle curiosity and interest in not just researchers, but engineers, doctors, gamers, learners and the general public. This enthusiasm emulates BCI as a thriving field with plush promises. Sooner or later, BCI may even find its application in everyday life.

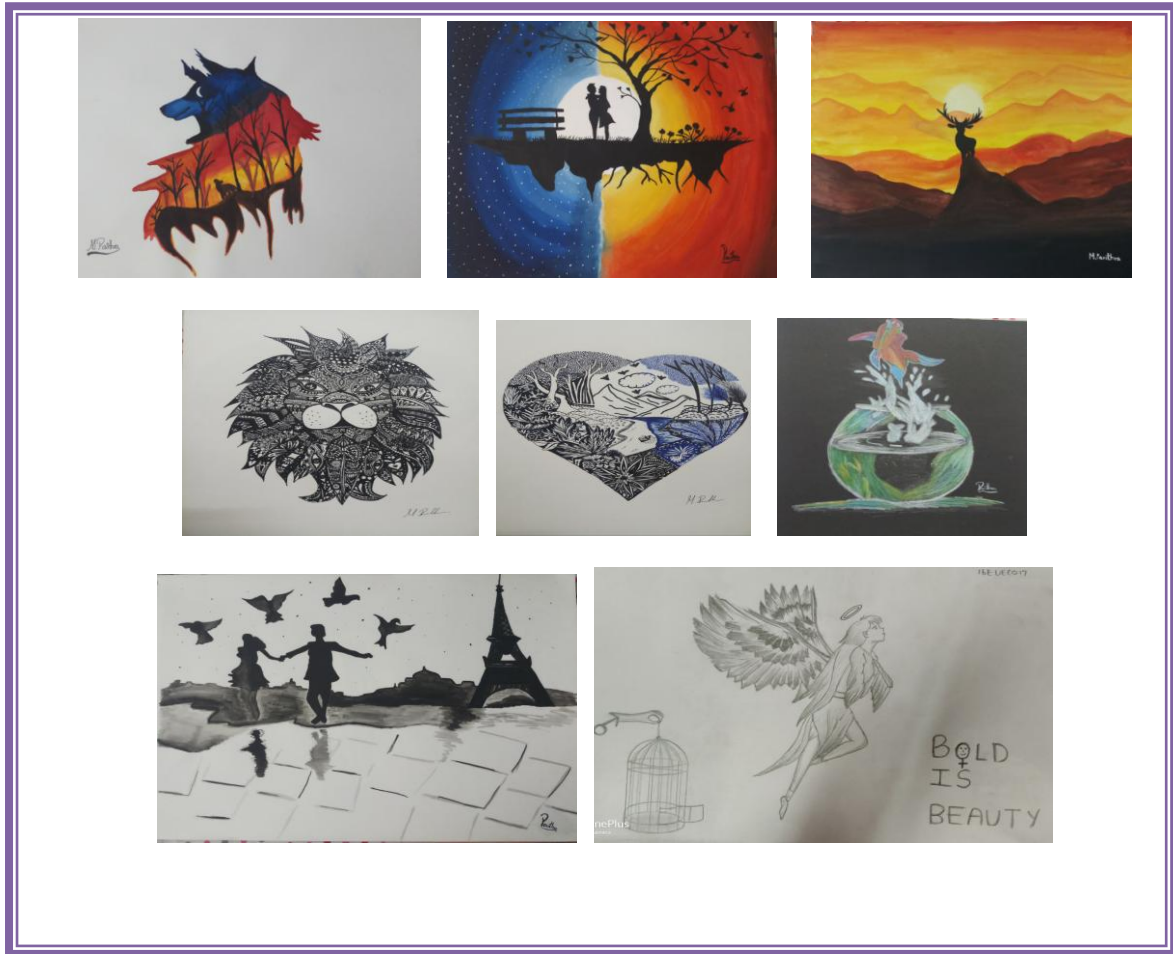
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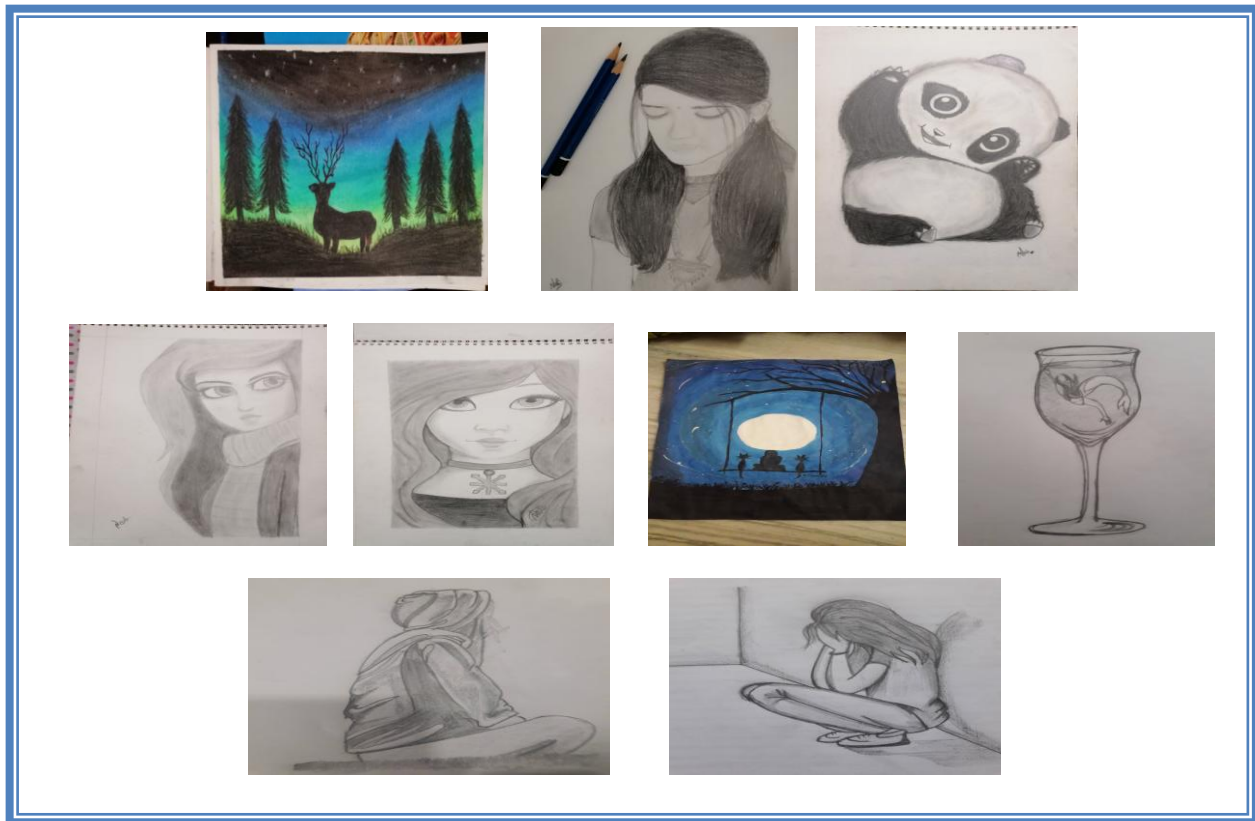
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