

NEWSLETTER 2019-2020**KIT - DIGIBYTES****Chief Patron:****Dr.P.Manimaran, Principal****Dr.D.Bhanu, Vice Principal****Editorial Faculty members:****Mr. T. Manoj Kumar, AP/ECE****Editorial Student Members:****S. Kuberan, IV year ECE-A****S. Nithya Veena, IV year ECE –B****S. Keerthivasan, III year ECE****G. Sudharsan, II year ECE****DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

INSTITUTION

VISION

To impart quality technical education emphasizing innovations and research with social and ethical values.

MISSION

1. Establishing state-of-the-art infrastructure, effective procedures for recruitment of competent faculty and innovative teaching practices.
2. Creating a conducive environment for nurturing innovative ideas and encouraging research skills.
3. Inculcating social and ethical values through co-curricular and extra-curricular activities.

DEPARTMENT

VISION

To produce technically competent and socially responsible Electronics and Communication Engineers to meet industry needs.

MISSION

1. Establishing state-of-the-art facilities in the field of Electronics and Communication Engineering and enriching the knowledge of faculty through continuous improvement process.
2. Adopting innovative teaching learning practices and facilitating industry institute partnership for professional development.
3. Inculcating ethical and social values through extension activities.

DEPARTMENT EVENTS

Webinar on “Recent Advancemens in Image Processing”



A webinar on “Recent Advancemens in Image Processing” was organized by the department of ECE on 16.05.2020. Dr. Kanimozhi Suguna, Assistant Professor, Sastra Deemed University, Thanjavur was the resource person of the webinar. She addressed about the importance of signal and image processing, highlighted about the recent techonologies and tools used in image processing and various methods i.e. image denoising, image enhancement and filtering concepts.

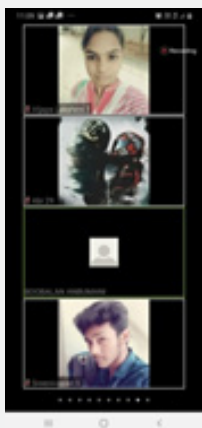
Introduction to Salesforce CRM and Development

A webinar on “Remote sensing and Data Fusion using Artificial Intelligence” was arranged for ECE students on 13.05.2020. The resource person Mr. T. Boopalan, Master Trainer in FSIPD, IoT and Embedded Specialist handled the session. The session focused on AI and Remote sensing applications and use of Data fusion in real time applications.



DEPARTMENT EVENTS

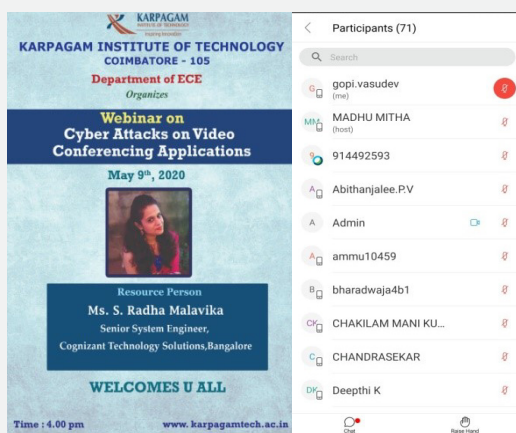
Webinar on “How to crack GATE?”



Department of ECE organized a webinar on “How to crack GATE?” on 08.05.2020. The session was handled by Mr. S. Govindasamy, Managing Director, ARM Institute, Chennai. Students of III and IV year ECE actively participated and realized the impact of GATE scores in public sectors and higher studies. The guest cleared the doubts of the active participants.

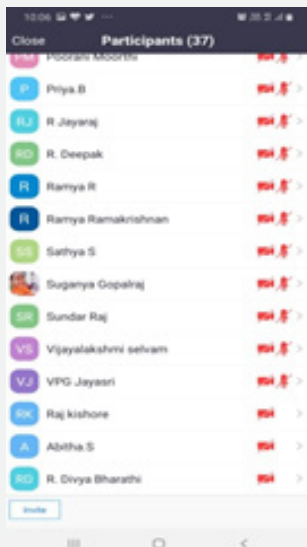
Cyber Attacks on Video Conferencing Applications

Webinar on “Cyber Attacks on Video Conferencing Applications” was organized by Department of ECE on 09.05.2020. The resource person was Ms. S. Radha Malavika, Senior System Engineer, Cognizant Technology Solutions, Bangalore. She addressed the security issues and threats in web applications and how to solve it using security approaches.



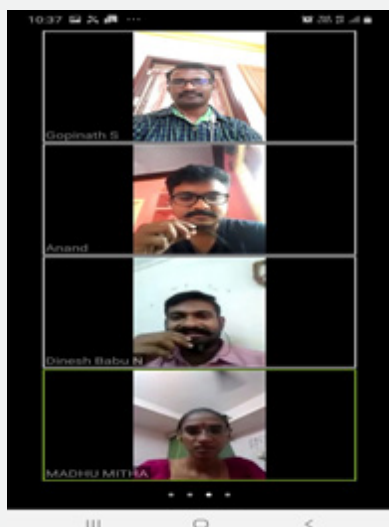
DEPARTMENT EVENTS

Webinar on Real time Embedded Systems and Internet of Things (IoT)



Organized a webinar on Real time Embedded Systems and Internet of Things (IoT) on 05.05.2020 through Google meet platform. Mr. Saravanakumar Thangavel, Technical Engineer, Talend, Bangalore gathered about IoT based Embedded systems and its applications conceptually. More than 50 students attended the webinar and realized the importance of IoT in Embedded Systems and were benefitted.

International E- Conference on Latest Trends in Science, Engineering and Technology – 2020



The 6th “International E- Conference on Latest Trends in Science, Engineering and Technology – 2020” was organized by all the departments on 13.04.2020. Students from various institutions presented their papers virtually. Mr. Nareshkumar Sathyamoorthy, IT Service Manager, Commonwealth Bank of Australia, Sydney, Australia was the resource person and gave a talk on “Are you a Self Contender?”. More than 150 students attended the inauguration programme and got benefitted.

DEPARTMENT EVENTS

Seminar on Real time operating systems (RTOS)



One day seminar on Real time operating systems (RTOS) on 16.03.2020. The session was handled by Mr. B. Karthikeyan, Director, Thick India Pvt. Ltd. Coimbatore. He explained various task of RTOS and usages in embedded systems. He explained various methods and modules in the RTOS in a practical way. 62 students actively participated and got benefitted from the session.

Seminar on ethical behavior in industry



One day seminar on ethical behavior in industry on 06.03.2020. The session was handled by Ms. M. Misho, Technical Lead Wipro Solutions Pvt., Ltd, Chennai. She was our alumna. She has explained the role and ethical practice followed in industry. She also highlighted various ethical issues and challenges in Indian industries. 56 students actively participated in the seminar.

DEPARTMENT EVENTS

Seminar on Latest Sensor Devices



Seminar on Latest Sensor Devices on 29.04.2020. The seminar was handled by Dr. S. Bhavani, Professor, Department of ECE, Karpagam Academy of Higher Education, Coimbatore. She explained the function of various sensors like IR sensor, Smart sensor, Thermal sensor etc. She highlighted recent advancements in sensor technology. 82 students actively attended.

Seminar on Latest Sensor Devices



Organized an interactive classroom session on Fabrication of Integrated Circuits on 19 February 2020. The faculty in charge Mr. A. G. Paranthaman, Assistant Professor, Department of ECE handled the session. Students were given the topic "IC Fabrication "before the commencement of class. The session was very useful to the students.

DEPARTMENT EVENTS

Seminar on Advanced Microprocessors



Organized a seminar on Advanced Microprocessors on 15 February 2020. The seminar was handled by Dr. S. Ananthanarayanan, Professor, Department of ECE, Amrita Vishwapeetham, Coimbatore. He highlighted the function and features of 80186, 80286 and ARM processors. He shared some of the career opportunities in IC industries.

Seminar on Rayleigh distribution, Energy Spectral density



Organized a seminar on Rayleigh distribution, Energy Spectral density on 10 February 2020. The seminar was handled by Dr. B. Kaarthick, Professor, Department of ECE, Coimbatore Institute of Engineering and Technology, Coimbatore shared the role of spectral density in wireless communication. 52 students actively participated in the event.

DEPARTMENT EVENTS

Seminar on Entrepreneurship skills: Attitude and Behavioural Development



Organized a seminar on Entrepreneurship skills: Attitude and Behavioural Development on February 5, 2020. The seminar was handled by Dr.S.Gopinath, Associate Professor, Department of ECE, Karpagam Institute of Technology, Coimbatore. He elaborated on the key skills and attitude required to become a successful entrepreneur. 69 students actively attended the seminar.

Guest Lecture on Power Supply unit



Guest Lecture on Power Supply unit on 28 January 2020. The seminar was handled by Mr. Sundaramoorthy ,CEO, Sunshiv Electronics Pvt. Ltd., Coimbatore. He highlighted the importance of power supply units for both commercial and domestic prupose. 74 students actively participated in the seminar.

DEPARTMENT EVENTS

Guest Lecture on Advanced techniques in Electromagnetic Fields



A Guest Lecture on Advanced techniques in Electromagnetic Fields on 08 January 2020. The seminar was handled by Dr. R. S. Sabneeian, Professor and Head, Department of ECE, Sona College of Technology, Salem. He highlighted quasi static magnetic field and magnetic field. The session was actively engaged by the guest in clearing the doubts by the students.

Faculty Activities

Journal Publication Details

S.No	Name of the Faculty members	Title of the Paper	Name of the Journal	Vol.No., Issue No., page No., DOI No.	Journal Indexed
1	Gopinath Samydurai, Gurumoorthy Kambatty Bojan, Bhanu Dharmarajan	Fuzzy based Secure Data Gathering Approach for Ad hoc Sensor Networks	Journal of Scientific & Industrial Research	ISSN :0975-1084 Vol. 79 Issue. May 2020 Page No. 391-394	SCI
2	P.Sasikala, Mr.G.Premananthan, Dr.M.S.Gowtham	Attention of Multi-Faceted Video Captioning	International Journal of Advanced Science and Technology	ISSN :2005-4238 Vol. 29 Issue. 8s April 2020 Page No. 532-539	Scopus
3	E. Veera Boopathy, C.G. Akalaya, S. Sathish, M. Magesh, D. Santhosh	A Novel Portable Smart Prayer Assistant Using RFID	International Journal of Pharmaceutical Research	ISSN :0975-2366 Vol. 12 Issue. 1 Jan-March 2020 Page No. 1014-1018	Scopus
4	A.Anci Manon Mary, S. Suganya A. Saranya	Early determination of error residual blocks by block matching algorithm for video coding	Test Engineering and Management	ISSN :0193-4120 Vol. 83 Issue. March - April 2020 Page No. 17463-17470	Scopus
5	M. Darani Kumar, Dr. S. Syed Jamaesha, P. Jeevanantham	A Review on Deep Learning in Healthcare Industry	Test Engineering and Management	ISSN :0193-4120 Vol. 83 Issue. March-April 2020 Page No. 2297-2301	Scopus

Faculty Activities

Journal Publication Details

S.No	Name of the Faculty members	Title of the Paper	Name of the Journal	Vol.No., Issue No., page No., DOI No.	Journal Indexed
6	S. Sreeha Sanjanaa Bose, Dr. S. Syed Jamaesha	An Overview of Deep Learning and Classification Algorithms	Test Engineering and Management	ISSN :0193-4120 Vol. 83 Issue. March-April 2020 Page No. 9980-9986	Scopus
7	M. Darani Kumar, Dr. S. Syed Jamaesha, P. Jeevanantham	Analysis of Electrooculogram using SVM Classifier	Test Engineering and Management	ISSN: 0193-4120 Vol. 83 Issue. March-April 2020 Page No. 9926-9930	Scopus
8	J. Shafiq Mansoor, Dr. S. Syed Jamaesha	Deep Learning Data Management using Optimization Term Memory Neural Network in IoT Sector	Test Engineering and Management	ISSN: 0193-4120 Vol. 83 Issue. March-April 2020 Page No. 6114-6120	Scopus
9	S. Sreeha Sanjanaa Bose, Dr. S. Syed Jamaesha	Content based Image Retrieval on Medical Applications	Test Engineering and Management	ISSN: 0193-4120 Vol. 83 Issue. March-April 2020 Page No. 10016-10021	Scopus

Faculty Activities

Details of Books/Book Chapters Publication

S.No	Name of the Faculty	Department	Title of the Book/Book Chapter	Name of the Publisher	Year	ISBN
1.	Dr. S. Gopinath	ECE	Impact of 5G on Internet of Things” in Contemporary Research in Engineering and Technology	Mangalam Publications, New Delhi	2020	978-81-945125-0-9
2.	Dr. S. Gopinath	ECE	Design and Development of Voice Command Based Intelligent Wheelchair using IoT	Anvi Books & Publishers, New Delhi	2020	978-81-941281-9-9
3.	Dr. S. Gopinath	ECE	Investigation on Reliable Secure Routing for Ad hoc Networks	Lambert Academic Publishing Pvt. Ltd, Germany	2020	9786202563529

Awards, Recognition, Journal & Conference Reviewer, Editor, MoUs Signed etc.

S. No.	Name of the Faculty	Date	Activity	Awarding Institution / Organization / Journal
1	Dr. S. Gopinath	24.04.2020	Reviewer, National e-Conference on Emerging Trends in Communication Systems	Dhirajlal Gandhi College of Technology, Salem
2	Dr. S. Gopinath	13.03.2020	Received the grant Rs.6000 for the Student Project Scheme for the project titled “Generation of Hydroelectricity from Automatic Agriculture Pumpset”	Tamil Nadu State Council for Science and Technology, Chennai
3	Dr. S. Gopinath	13.03.2020	Received the grant Rs.20,000 for conference “International Level Conference on Latest Trends in Science, Engineering and Technology 2020”	Tamil Nadu State Council for Science and Technology, Chennai

Faculty Activities

Seminars / Workshops / Summer / Winter Schools/ Training Programmes attended Details

S. No.	Name of the Faculty	Title of the Conference / Seminar / Workshop / FDP/ STTP Attended	Date	Place	Sponsoring Authority
1	Dr. S. Gopinath	IPR & Technology Transfer conducted as part of IIC Innovation Ambassador Training Series	06.01.2020 to 07.01.2020	Sri Krishna College of Engineering and Technology, Coimbatore.	MHRD – Innovation Cell
		NAAC Sponsored National Level Seminar on “Revised NAAC Framework for Quality Enhancement in Higher Educational Institutions	27.02.2020 to 28.02.2020	Sethu Institute of Technology, Virudhunagar	NAAC
2	Dr. S. Gopinath	Virtual Faculty Development Programme on Recent Trends in Biomedical Engineering – Research Perspective	26.04.2020 to 30.04.2020	Dr. NGP Institute of Technology, Coimbatore	AICTE
3.	Mr. E. Veeraboopathy	Virtual Faculty Development Programme on Recent Trends in Biomedical Engineering – Research Perspective	26.04.2020 to 30.04.2020	Dr. NGP Institute of Technology, Coimbatore	AICTE
4.	Dr. M. S. Gowtham	FDP on Artificial Intelligence in 4 th Dimensional Approach	10.05.2020	Arupadai Veedu Institute of Technology	MIC
		FDP on Deep Neural Networks and Expert Systems	25.05.2020 to 29.05.2020	P.S.R. Engineering College, Virudhunagar	-
		Workshop on Wired and Wireless Network Simulation using Network Simulator (NS-2)	19.05.2020 to 20.05.2020	St. Peter's Engineering College, Hyderabad	-
		FDP on Ad Hoc and Wireless Sensor Networks	22.06.2020 to 27.06.2020	Sai Ram Institute of Technology, Chennai	-
		Workshop on NAAC Assessment and Accreditation: A Step by Step Process	28.05.2020 to 30.05.2020	GATES Institute of Technology, Andhra Pradesh	-

Faculty Activities

Seminars / Workshops / Summer / Winter Schools/ Training Programmes attended Details

5.	Mr. A. G. Paranthaman	Virtual Faculty Development Programme on Exposure & Rejuvenation of Technologies in changed era of the world	06.07.2020 to 10.07.2020	Raj Kumar Goel Institute of Technology, Ghaziabad,	
		Online Spoken FDP on Advanced Communication Laboratory	20.07.2020 to 25.07.2020	PSNA College of Engineering and Technology, Dindigul	Keysight Technologies
		Virtual Faculty Development Programme on Evolutionary Optimization Techniques	15.06.2020 to 17.06.2020	SSN College of Engineering, Chennai	-
		Virtual Faculty Development Programme on EC8701-Antennas and Microwave Engineering	22.06.2020 to 26.06.2020	Saveetha Engineering College, Chennai	IEEE
		Online Short Term Training Program on MATLAB based Teaching-Learning in Mathematics, Science & Engineering.	18.05.2020 to 22.05.2020	Ramrao Adik Institute of Technology, Nerul	-
6.	Ms. R. Ramya	Virtual Faculty Development Programme on EC8791- Embedded and Real Time Systems	15.06.2020 to 19.06.2020	Saveetha Engineering College, Chennai	IEEE
		Virtual Faculty Development Programme on Recent Trends in Biomedical Engineering – Research Perspective	26.04.2020 to 30.04.2020	Dr. NGP Institute of Technology, Coimbatore	AICTE
		Datascience for Biomedical Applications	26.05.2020 to 01.06.2020	Velalar College of Engineering and Technology, Erode	-
		Virtual Faculty Development Programme on EC8701-Antennas and Microwave Engineering	22.06.2020 to 26.06.2020	Saveetha Engineering College, Chennai	IEEE

Faculty Activities

Seminars / Workshops / Summer / Winter Schools/ Training Programmes attended Details

7.	Mr. E. Veeraboopathy	FDP on Recent Trends in Antenna Design using CAD Tools	12.06.2020	Kumaraguru college of Technology, Coimbatore	-
		Virtual Faculty Development Programme on Recent Trends in Biomedical Engineering – Research Perspective	26.04.2020 to 30.04.2020	Dr. NGP Institute of Technology, Coimbatore	AICTE
		FDP on The Art of writing Research papers	29.04.2020	Chennai Institute of Technology, Chennai	-
		Deep learning in Telecommunication	22.05.2020	Kalaingar karunanidhi Institute of Technology, Coimbatore	-
8	Ms. S. Madhumitha	Webinar on “RF Measurements in a 5G World”	12.05.2020	PSNA College of Engineering and Technology, Dindigul	-
		Webinar on Introduction to Digital Transformation	23.05.2020	S.A.Engineering College, Chennai	-

Faculty Activities

Conference Publication Details

S.No	Name of the Faculty	Title of the Paper	Name of the Conference	Organized by	Date
1	Dr. S. Gopinath, Dr. S. Syed Jamaesha and Dr. M.S.Gowtham	Reliable Fuzzy based Routing Protocol for increasing network lifetime in MANETs	National E- Conference on Emerging Trends in Communication Systems (Ne-CETS)	Dhirajlal Gandhi Institute of Technology, Salem	24.04.2020

Student Participation

Seminars / Workshops / Summer / Winter Schools/ Quiz/Training Programmes attended Details

S. No.	Name of the Student	Title of the Symposium Seminar / Workshop / Quiz/Hands on Training	Date	Organizing Institution
1	Ms. P. Geetha	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
2	G.M. Janani	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
3	Mr. K. Jeevanantham	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology

Student Participation

Seminars / Workshops / Summer / Winter Schools/ Quiz/Training Programmes attended Details

S. No.	Name of the Student	Title of the Symposium Seminar / Workshop / Quiz/Hands on Training	Date	Organizing Institution
4	Ms. M. Lakshmana Sri	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
5	Ms. M. Poorani	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
6	Ms. M. Sangeetha	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
7	Mr. R. Sanjeevi Krishnana	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
8	Mr. S. Srinivasan	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology
9	Ms. M. Varshini	Drawing Contest – Combating Covid 19	26.04.2020	Department of ECE, Karpagam Institute of Technology

Student Participation

Seminars / Workshops / Summer / Winter Schools/ Quiz/Training Programmes attended Details

S. No.	Name of the Student	Title of the Symposium Seminar / Workshop / Quiz/Hands on Training	Date	Organizing Institution
10	M. Santhosh Kumar	World IPR day online Quiz	27.04.2020	Karpagam Institute of Technology
11	P. Geetha	World IPR day online Quiz	27.04.2020	Karpagam Institute of Technology
12	M.S. Karthika	World IPR day online Quiz	27.04.2020	Karpagam Institute of Technology
13	S. Sathyanarayanan	Corona Awareness Quiz	28.04.2020	Sri Krishna College of Technology, Coimbatore
14	S. Srinivasan	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
15	P. Bhuvaneshwari	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
16	G. Jayasri	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
17	R. Deepak	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore

Student Participation

Seminars / Workshops / Summer / Winter Schools/ Quiz/Training Programmes attended Details

S. No.	Name of the Student	Title of the Symposium Seminar / Workshop / Quiz/Hands on Training	Date	Organizing Institution
18	S. Sathyanarayanan	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
19	C. Arsadha	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
20	G. Kishore	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
21	R. Sanjeevi Krishnan	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
22	G. Balaji	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
23	D. Srimuki	National Level E-Quiz on Covid-19	07.05.2020	Kongunadu College of Arts and Science, Coimbatore
24	A.R.Aathira	Workshop on Arduino	08.02.2020	R.M.K Engineering College

Student Participation

Seminars / Workshops / Summer / Winter Schools/ Quiz/Training Programmes attended Details

S. No.	Name of the Student	Title of the Symposium Seminar / Workshop / Quiz/Hands on Training	Date	Organizing Institution
25	S.Abarna	Workshop on Arduino	08.02.2020	R.M.K Engineering College
26	A.Balaji	Workshop on Arduino	08.02.2020	R.M.K Engineering College
27	K.Prasanya	Workshop on Arduino	08.02.2020	R.M.K Engineering College
28	A.Preethi mishap	Workshop on Arduino	08.02.2020	R.M.K Engineering College
29	Vinitha T	Nakshathra 20: Lab Hunt	15.2.2020	Saintgits College of Engineering
30	Kopikha M.L	Nakshathra 20: Lab Hunt	15.2.2020	Saintgits College of Engineering
31	Kousick R	Nakshathra 20: Lab Hunt	15.2.2020	Saintgits College of Engineering
32	Sakthi Saravanan D	Nakshathra 20: Lab Hunt	15.2.2020	Saintgits College of Engineering
33	Vijaya Lakshmi T	Nakshathra 20: Lab Hunt	15.2.2020	Saintgits College of Engineering
34	Sudharshan	Nakshathra 20: Lab Hunt	15.2.2020	Saintgits College of Engineering

Student Participation

Seminars / Workshops / Summer / Winter Schools/ Quiz/Training Programmes attended Details

S. No.	Name of the Student	Title of the Symposium Seminar / Workshop / Quiz/Hands on Training	Date	Organizing Institution
36	Sri Mukhi	Nakshathra 20: Lab Hunt	15.02.2020	Saintgits College of Engineering
37	Sathyanarayanan	Project Expo	6.2.2020	Sai Tirumala NVR Engineering College
38	Santhosh Nirmal	Project Expo	6.2.2020	Sai Tirumala NVR Engineering College
39	Sangeetha	Project Expo	7.2.2020	Sai Tirumala NVR Engineering College
40	Kishore	Project Expo	6.2.2020	Sai Tirumala NVR Engineering College