ECE ANNUAL REPORT 2020-21

Geetha Shishu Shikshana Sangha®
GSSS INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN
Affiliated to Visvesvaraya Technological University, Belgavi, Karnataka
Approved by AICTE, New Delhi
K R S Road, Metagalli, Mysuru – 16

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Accredited by NBA, New Delhi(Validity: 01.07.2017 - 30.06.2023)

AECES

DEPARTMENTAL ACHEIVERS (2020-2021)
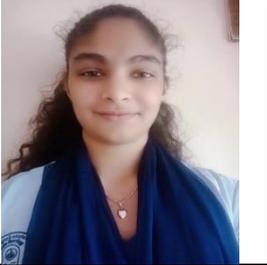### PLACEMENT DETAILS 2020-2021

Highest Package Placement Achiever- 19 LAKHS

Rachana B from the department of Electronics and Communication Engineering, GSSS Institute of Engineering and Technology for Women, Mysuru has bagged the highest salary package offer of **19 Lakh** from **Amazon** during the campus recruitment drive held @ GSSSIETW Mysuru.

Smt. Vanaja B. Pandit, Hon. Secretary, GSSS (R) Congratulating **Rachana B**, **Smt. Anupama B Pandit,** Administrative officer, GSSSIETW, **Dr. M Shivakumar**, Principal, GSSSIETW and **Mr. Mahadeva Prasad S**, Head of Training and Placement, GSSSIETW were present on this occasion.

SL. NO	NAME	USN	COMPANY	CTC	PHOTO
1	SUSHMITHA K M	4GW17EC098	HPE R & D	10.3 LPA	
2	SUKRUTHI M S	4GW17EC095	DELL TECHNOLOGIES	8LPA	
3	GAYATHRI U	4GW17EC018	DXC-TECHNOLOGY	3.6 LPA	
4	YASHASWINI T V	4GW17EC111	DXC-TECHNOLOGY	3.6 LPA	
5	SHAMYA G	4GW17EC084	DXC-TECHNOLOGY	3.6 LPA	
6	YOGITHA M S	4GW17EC112	DXC-TECHNOLOGY	3.6 LPA	
7	ANANYA S RAO	4GW17EC004	DXC-TECHNOLOGY	3.6 LPA	

8	HARSHITHA S A	4GW17EC024	DXC-TECHNOLOGY	3.6 LPA	
9	ANVITHA MUTHAMMA K C	4GW17EC007	DXC-TECHNOLOGY	3.6 LPA	
10	LAKSHYA J	4GW17EC031	DXC-TECHNOLOGY	3.6 LPA	
11	MEGHNA K	4GW17EC040	DXC-TECHNOLOGY	3.6 LPA	
12	SINDHU K B	4GW17EC091	DXC-TECHNOLOGY	3.6 LPA	
13	NISARGA R	4GW17EC054	DXC-TECHNOLOGY	3.6 LPA	
14	MISBA SEEMATH	4GW17EC041	DXC-TECHNOLOGY	3.6 LPA	

15	TUSHARA D	4GW17EC103	DXC-TECHNOLOGY	3.6 LPA	
16	SPOORTHI JWANITA	4GW17EC094	DXC-TECHNOLOGY	3.6 LPA	
17	AMBIKA M S	4GW17EC002	DXC-TECHNOLOGY	3.6 LPA	
18	HAMSINI S RAM	4GW17EC019	CAPGEMINI	3.8 LPA	
19	M D SHOBHITA	4GW17EC033	CAPGEMINI	3.8 LPA	
20	ANVITHA MUTHAMMA K C	4GW17EC007	CAPGEMINI	3.8 LPA	
21	VARSHINI N G	4GW17EC108	CAPGEMINI	3.8 LPA	

22	SHAMYA G	4GW17EC084	CAPGEMINI	3.8 LPA	
23	HARSHITHA S A	4GW17EC024	CAPGEMINI	3.8 LPA	
24	VINITHA K R	4GW17EC110	CAPGEMINI	3.8 LPA	
25	PRIYANKA B G	4GW17EC064	CAPGEMINI	3.8 LPA	
26	SHREYA K M	4GW17EC088	CAPGEMINI	3.8 LPA	
27	MABEL JANE R	4GW17EC034	CAPGEMINI	3.8 LPA	
28	NIKITHA M	4GW17EC053	CAPGEMINI	3.8 LPA	

29	ANANYA S RAO	4GW17EC004	CAPGEMINI	3.8 LPA	
30	HAMSINI S RAM	4GW17EC019	ACCENTURE	6.5 LPA	
31	RASHMI G	4GW17EC074	ACCENTURE	6.5 LPA	
32	ANANYA S RAO	4GW17EC004	ACCENTURE	4.5 LPA	
33	GAYATHRI U	4GW17EC018	ACCENTURE	4.5 LPA	
34	AMBIKA M S	4GW17EC002	ACCENTURE	4.5 LPA	
35	HARSHITHA S A	4GW17EC024	ACCENTURE	4.5 LPA	
36	MABEL JANE R	4GW17EC034	ACCENTURE	4.5 LPA	

37	MEGHNA K	4GW17EC040	ACCENTURE	4.5 LPA	
38	NIKITHA M	4GW17EC053	ACCENTURE	4.5 LPA	
39	NISARGA R	4GW17EC054	ACCENTURE	4.5 LPA	
40	RACHANA K P	4GW17EC069	ACCENTURE	4.5 LPA	
41	RANJITHA M	4GW17EC073	ACCENTURE	4.5 LPA	
42	SHAMYA G	4GW17EC084	ACCENTURE	4.5 LPA	

43	SINDHU K B	4GW17EC091	ACCENTURE	4.5 LPA	
44	SPOORTHI JWANITA	4GW17EC094	ACCENTURE	4.5 LPA	
45	SUSHMITHA K M	4GW17EC098	ACCENTURE	4.5 LPA	
46	VARSHINI N G	4GW17EC108	ACCENTURE	4.5 LPA	
47	YASHASWINI T V	4GW17EC111	ACCENTURE	4.5 LPA	
48	SHRIDEVI S RADDY	4GW17EC089	ACCENTURE	4.5 LPA	
49	RANGA NAGAJYOTHI	4GW17EC072	ACCENTURE	4.5 LPA	

50	ANUSHA A U	4GW17EC005	ACCENTURE	4.5 LPA	
51	BHUMIKA S (SHIVAPPA)	4GW17EC013	ACCENTURE	4.5 LPA	
52	PRIYANKA H G	4GW17EC065	ACCENTURE	4.5 LPA	
53	PRIYANKA T	4GW17EC066	ACCENTURE	4.5 LPA	
54	PREETHI N S	4GW17EC062	SAP - SCHOLAR PROGRAM	3 LPA	
55	RACHANA B	4GW17EC068	TCS	3.96 LPA	
56	VINITHA K R	4GW17EC110	TCS	3.96 LPA	

57	AMBIKA M S	4GW17EC002	TCS	3.96 LPA	
58	RANJITHA M	4GW17EC073	TCS	3.96 LPA	
59	CHANDINI G S	4GW17EC014	CGI	3.5 LPA	
60	LEHA M	4GW17EC032	CGI	3.5 LPA	
61	PRIYANKA T B	4GW17EC067	CGI	3.5 LPA	
62	SUPRITHA T R	4GW17EC096	CGI	3.5 LPA	
63	SUSHMITHA P B	4GW17EC100	CGI	3.5 LPA	

64	NIDHISHREE R RAO	4GW17EC052	TCS	3.96 LPA	
65	LAKSHYA J	4GW17EC031	TCS	3.96 LPA	
66	LEHA M	4GW17EC032	TCS	3.96 LPA	
67	4GW17EC078	SAHANA K N	Speedlabs	4.5 LPA	
68	4GW17EC104	UMA D	Speedlabs	4.5 LPA	
69	4GW17EC037	MEGHANA G R	Speedlabs	4.5 LPA	
70	NIDHISHREE R RAO	4GW17EC052	COGNIZANT	4 LPA	

71	RACHANA B	4GW17EC068	AMAZON	19 LAKHS	
72	SHAMYA G	4GW17EC084	APPLIED MATERIALS	8.5 LPA	
73	SURABHI B	4GW17EC097	Schneider Electric	6 LPA	
74	POOJA K	4GW17EC056	FACE Prep	3.06 LPA	
75	PRATHEEKSHA R	4GW16EC061	FACE Prep	3.06 LPA	
76	HARSHITHA P	4GW17EC023	FACE Prep	3.06 LPA	

77	POOJA K	4GW17EC056	Diya Systems	2 LPA	
78	PRATHEEKSHA R	4GW16EC061	Diya Systems	2 LPA	
79	HARSHITHA P	4GW17EC023	Diya Systems	2 LPA	
80	MANDARA V	4GW17EC035	Diya Systems	2 LPA	
81	PRAKRUTHI SANTHOSH	4GW17EC059	Diya Systems	2 LPA	
82	SUSHMITHA P B	4GW17EC100	WIPRO	3.5LPA	
83	PRATHEEKSHA R	4GW16EC061	UnSchool	5 LPA	

84	KRISHNAVENI M S	4GW17EC029	UnSchool	5 LPA	
85	PRARTHANA M	4GW17EC060	UnSchool	5 LPA	
86	UMA D	4GW17EC104	Accenture	4.5 LPA	
87	PRARTHANA M	4GW17EC060	Accenture	4.5 LPA	
88	YOGITHA M S	4GW17EC112	Infosys	3.6 LPA	
89	NAMRATHA A M	4GW17EC048	Infosys	3.6 LPA	
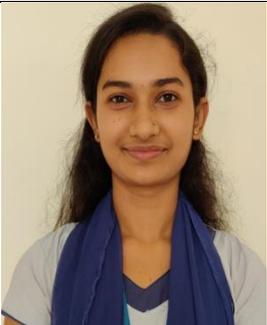
90	AMRUTHA R	4GW17EC003	Infosys	3.6 LPA	
91	MEGHANA G R	4GW17EC037	Infosys	3.6 LPA	
92	SUSHMITHA P B	4GW17EC100	Infosys	3.6 LPA	
93	MONIKA M	4GW17EC043	Infosys	3.6 LPA	
94	PRAKRUTHI SANTHOSH	4GW17EC059	Cognizant	4 LPA	
95	TUSHARA D	4GW17EC103	Mindtree	4 LPA	

96	SUSHMITHA N	4GW17EC099	Q-Spiders	Train & Hire Model	
97	RAKSHITHA C	4GW17EC070	Q-Spiders	Train & Hire Model	
98	P RACHANA NAIDU	4GW17EC055	Q-Spiders	Train & Hire Model	
99	ASHWINI	4GW17EC008	Q-Spiders	Train & Hire Model	
100	UMA D	4GW17EC104	Q-Spiders	Train & Hire Model	
101	MEGHANA P GOWDA	4GW17EC038	Q-Spiders	Train & Hire Model	
102	MANDARA V	4GW17EC035	Q-Spiders	Train & Hire Model	

103	PRAKRUTHI SANTHOSH	4GW17EC059	Q-Spiders	Train & Hire Model	
104	PRATHEEKSHA R	4GW16EC061	Q-Spiders	Train & Hire Model	
105	RAKSHITHA C	4GW17EC070	Proxeleria Pvt. Ltd	4.2 LPA	
106	4GW17EC104	UMA D	RIBBON COMMUNICATION	6.72 LPA	
107	4GW17EC073	RANJITHA M	RIBBON COMMUNICATION	6.72 LPA	
108	4GW17EC091	SINDHU K B	RIBBON COMMUNICATION	6.72 LPA	
109	4GW17EC111	YASHASWINI T V	RIBBON COMMUNICATION	6.72 LPA	

ECE TOPPERS LIST

TOPPERS EVEN-2020

Semester VIII

FIRST	SECOND	THIRD
RACHANA SELAR G **4GW16EC070** **90.70%**	**ANUSHA N** **4GW16EC008** **90.57%**	**PRIYADARSHINI N S** **4GW16EC065** **90.00%**

Semester VI

FIRST	SECOND	THIRD
PREETHI N S **4GW17EC062** **92.25%**	**RANJITHA M** **4GW17EC073** **91.25%**	**UMA D** **4GW17EC104** **91.13%**

Semester IV

FIRST	SECOND	THIRD
SHWETHA S **4GW18EC092** **89.66%**	**VAISHNAVI R** **4GW18EC108** **88.66%**	**NISCHITHA T R** **4GW18EC061** **88.44%**

Semester VII

FIRST	SECOND	THIRD	
UMA D 4GW17EC104 90.38%	**RANJITHA M 4GW17EC073 88.37%**	**PREETHI N S 4GW17EC062 87.13%**	**ANUSHA C 4GW17EC006 87.13%**

Semester V

FIRST	SECOND		THIRD
KAVYASHREE H K 4GW18EC037 89.88%	**NISCHITHA T R 4GW18EC061 86.33%**	**INCHARA H S 4GW18EC031 86.33%**	**SUPRIYA N 4GW18EC101 85.88%**

Semester III

FIRST	SECOND	THIRD
SHREELAXMI GANESH 4GW19EC123 88.89%	**KAVITHA.T 4GW19EC053 86.56%**	**VAISHNAVI.V 4GW19EC150 86.44%**

Semester VIII

FIRST	SECOND	THIRD
UMA D **4GW17EC104** **94.28%**	**RACHANA K P** **4GW17EC069** **93.14%**	**VINEETHA K R** **4GW17EC110** **92.42%**

DEPARTMENTAL ACHIEVEMENTS

The 3rd National Conference "Communication and Data Science NCCDS-2021" held on 10th July 2021

The 3rd National Conference on Communication and Data Science, NCCDS-2021 organized by Department of Electronics and Communication Engineering, GSSSIETW in association with BJIT-International Journal of Information Technology (SCOPUS Indexed) and International Journal of Engineering Research & Technology was inaugurated by the honorable Vice chancellor of Gulbarga University Kalaburagi, Dr. Dayanand A in virtual mode on 10th July 2021

Dr. Ashwath Narayan, Deputy Chief Minister holding portfolios of Higher Education, IT, BT, S&T, Skill Development Entrepreneurship and Livelihood Department, Government of Karnataka, chief guest of the conference has sent his best wishes for the success of the conference. Dr. Dayanand A in his inaugural address highlighted that with biomedical research developing at a rapid pace, biologists have proved the necessity of adopting concepts and tools from other areas including machine learning, computational chemistry, engineering, mathematics, and physics. This shift of paradigm drives many initiatives in the health and data space, such as precision medicine, value-based healthcare and genomics. He emphasized that data science is aiming at reducing the burden of repetitive tasks on doctors, developing high-performance genomic analysis platforms, identifying new molecular targets for drug discovery, optimizing clinical trial procedures, analyzing electronic medical data to improve patient care, and forecasting disease progression to reduce mortality rates. He also stressed upon the importance of data collection and processing in the field of Microbiology.A total of 75 papers from all over India were selected for presentation under various tracks like Embedded Systems/ Robotics, AI / Machine Learning, Deep learning, Wireless communication, IoT, Signal/ Image processing and Block chain. These presented papers were assessed by eminent session chairs invited from various engineering colleges. Best papers were announced in every track and selected papers shall be published in the conference proceedings.

The Second International Conference on Adaptive Computational Intelligence ICACI-2020 organized by Department of Electronics and Communication Engineering, GSSSIETW in collaboration with Springer journal and University of Sannio, Benevento, Italy was inaugurated at GSSS Institute of Engineering & Technology for Women, Mysuru on 15th December 2020.

The Conference was inaugurated by the Chief Guest Dr. Fabrice Meriaudeau, Distinguished Professor, University of Burgandy, Guest of Honour Dr. R Logeswaran, Professor, Asia Pacific University of Technology and Innovation, Malaysia, Program Chair Dr Navakanta Bhat, Director, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore and General Co-Chair Prof. Silvia Liberata Ullo, Engineering Department, University of Sannio, Benevento, Italy.

TECHNICAL EVENTS CONDUCTED

"IDEATHON-2021" held on 4th June 2021

The Department of Electronics & Communication Engineering, GSSS Institute of Engineering & Technology for Women, Mysuru, organized "IDEATHON 2021" for all Engineering branch students on 4th June 2021.
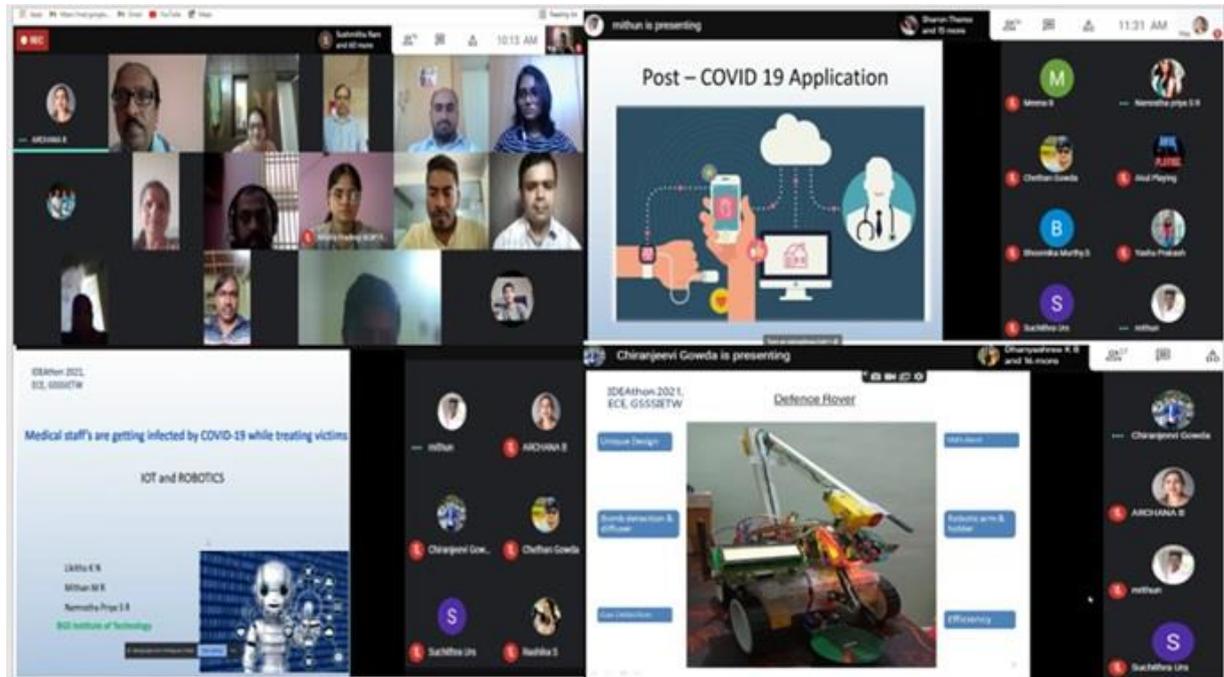
Technical talk "Growth of Electronics" held on 28th Sept. 2020

By Mr. Nikil Bhaskar, Co-founder & AMP Director, Kidvento, Mysuru for III Semester 'A' and 'B' Section students.

AICTE, NEW DELHI SANCTIONED GRANT-IN-AID UNDER MODROB TO ECE DEPT, GSSSIETW

All India Council for Technical Education (AICTE), New Delhi has approved the proposal with the project title "Advanced Communication Lab for developing and prototyping 2X2 MIMO Systems" submitted by Dr Rajendra R Patil, Professor and Head, Department of ECE, GSSSIETW, Mysuru under the Modernisation and Removal of Obsolescence (MODROB) Scheme for the year 2019-20. The council sanctioned a Grant-in-Aid of Rs 12,54,902/-.

TECHNICAL TALK "HIGHER EDUCATION" held on 29.09.2020

By Ms. Padmaja Muralidhar, CEO, ACUBE Solutions Mysuru for VII Semester 'A' and 'B' Section students.

TECHNICAL TALK "RADIO COMMUNICATION" held on 21.10.2020

By Mr. A Hanumanth, Deputy Director General, All India Radio, Chennai. for Semester V 'A' and 'B' Section students.
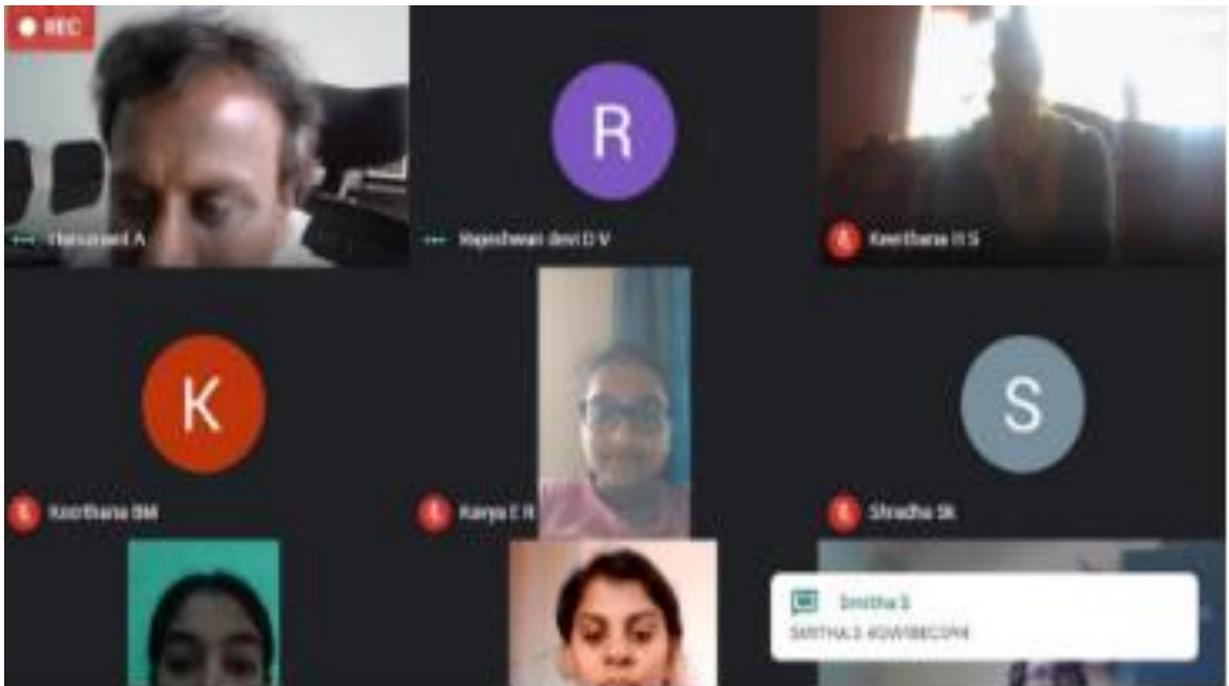
TECHNICAL TALK "IOT & ENGINEERING PRACTICE" held on 29.05.2021

By Mr. Ravishankar G Shiroor, Cofounder & BD Head, Stellaps Technologies, Bengaluru for IV Semester 'A', 'B' & 'C' section students
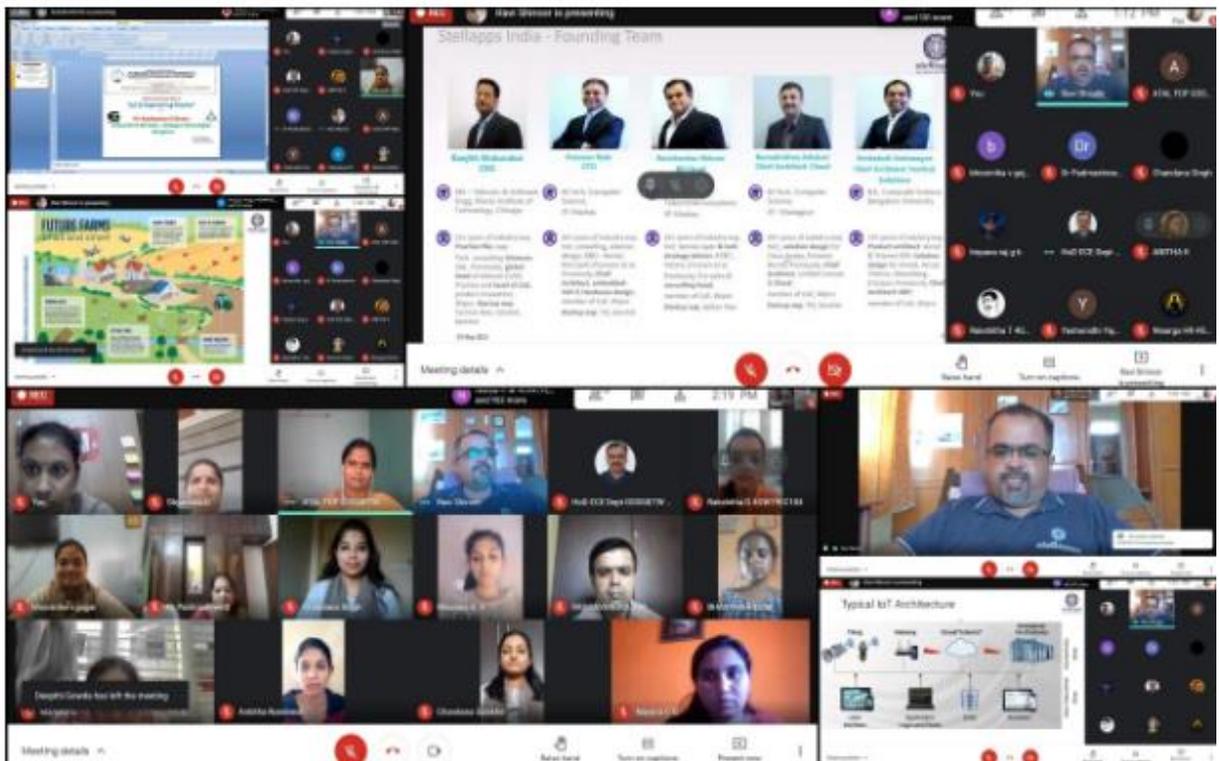
TECHNICAL TALK "5G COMMUNICATION" held on 02.06.2021

By Mr. Praveen, Technical Lead, Lekha Wireless Communications, Bangalore for VI Semester 'A' and 'B Section students.
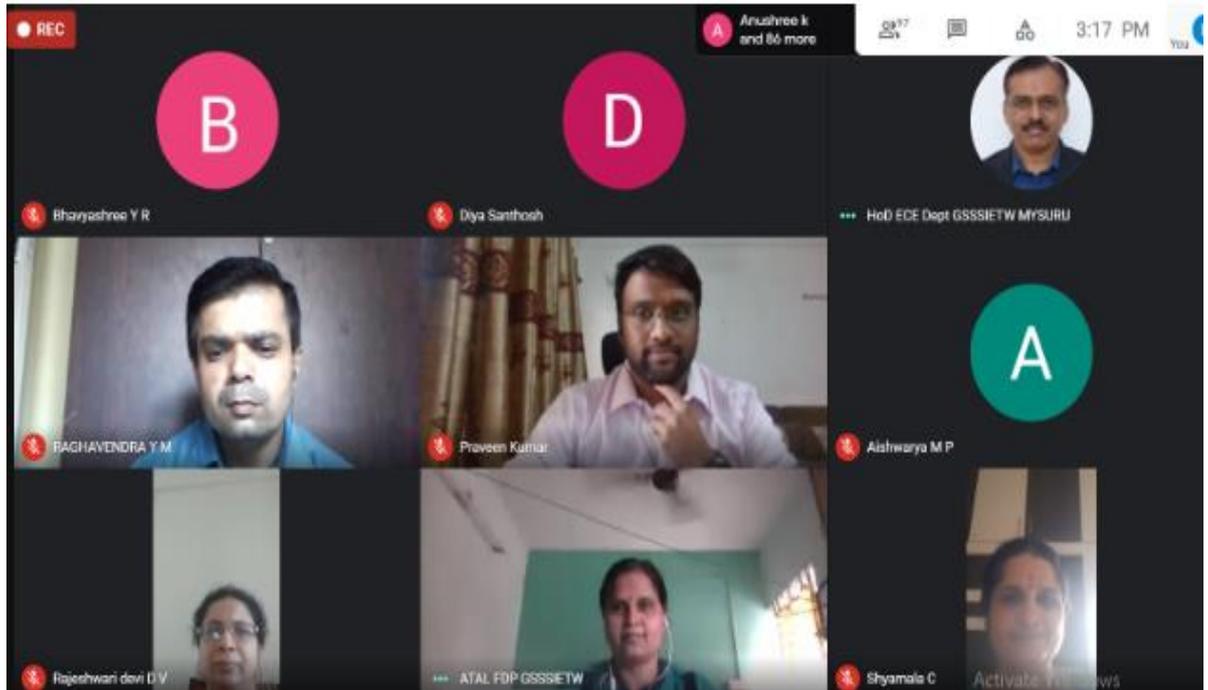
INTERNATIONAL WEBINAR "EVOLUTIONARY LEARNING AND ITS ENGINEERING APPLICATIONS" held on 21.05.2021

By Dr. Amir H. Gandomi Professor of Data Science and an ARC DECRA Fellow Faculty of Engineering & Information Technology, University of Technology Sydney, Australia, for VIII Semester 'A' & 'B Section students.

ISTE EVENT

## "TEACHERS DAY CELEBRATION" ON WEDNESDAY 30TH SEPTEMBER 2020

GSSSIETW organized "Teachers Day Celebration" on Wednesday 30th September 2020, Sri. Sudhindra Haldodderi, Former Scientist-DRDO, Former DGM-HAL & Popular Science Writer, Chief Guest of the event.
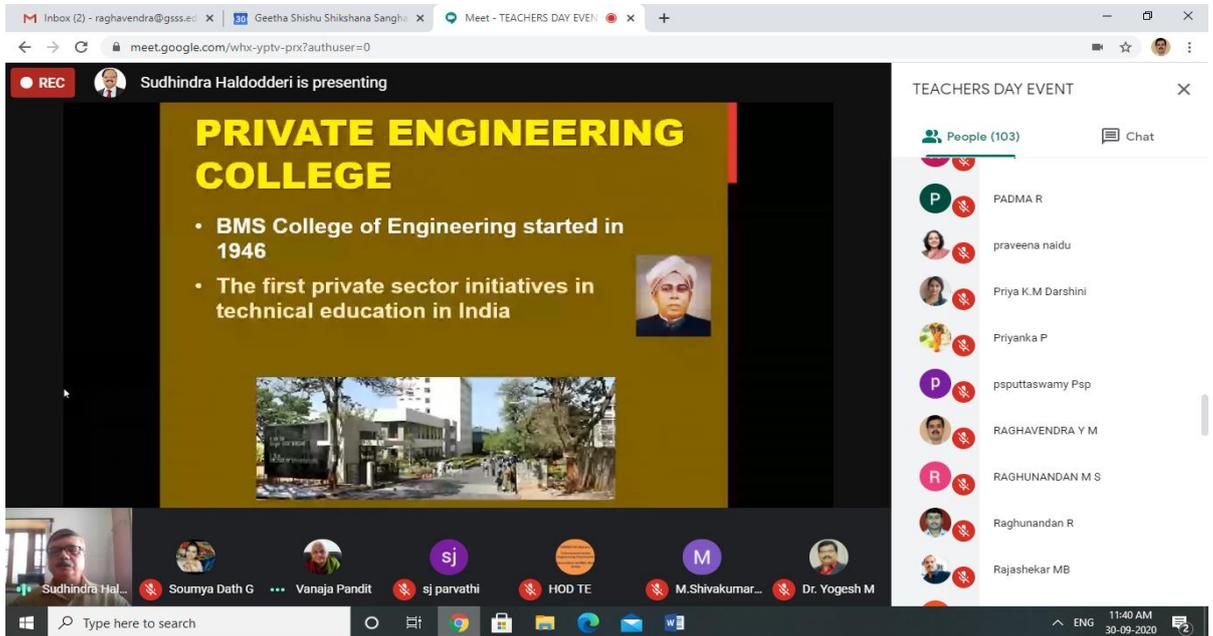

IETE EVENTS

Technical talk "Apparel Recommendation" held on 17th Feb. 2021.

Department of ECE organized an online technical talk on "Apparel Recommendation" on 17th February 2021 by Mr. Harikumar, TEK Systems, Senior Software Engineer, Bangalore, for the students of ECE department under IETE students' Forum.
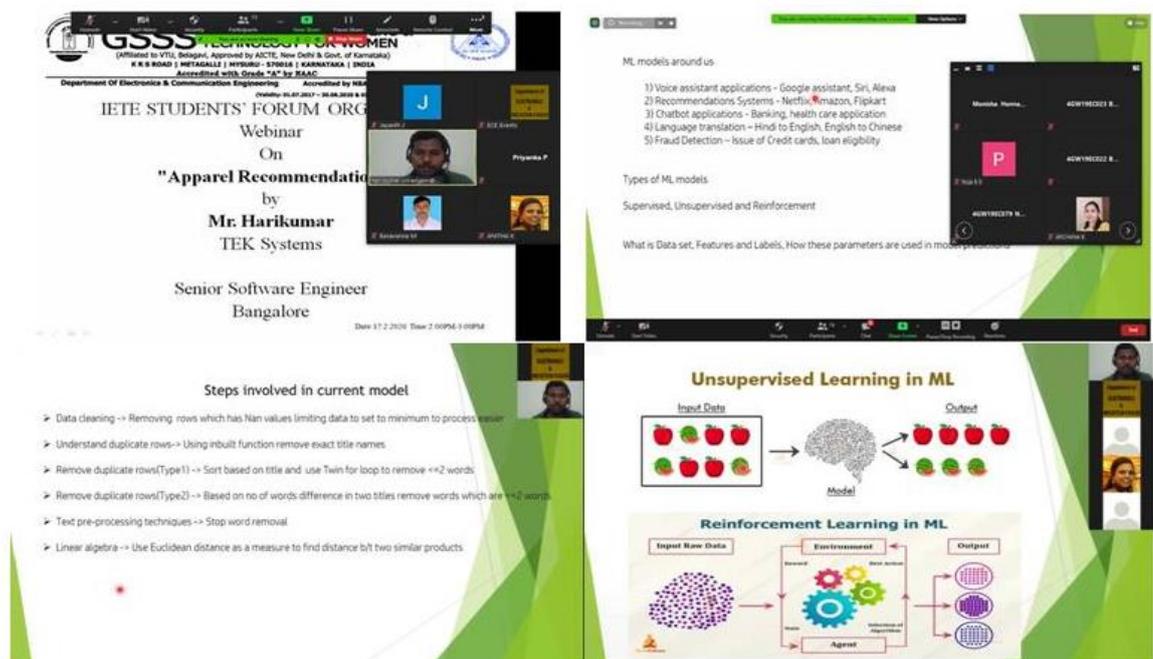
International Webinar "Radar Sensing in Assisted Living" held on June 1 2021

Department of Electronics and Communication Engineering under IETE student forum is organized online International Webinar on "Radar Sensing in Assisted Living" Tuesday, June 1 2021, from 2:30 – 4:00pm by Dr. Julien Le Kernec, Senior Lecturer, University of Glasgow, School of Engineering, Glasgow, United Kingdom for 6th semester 'A' and 'B' section students.
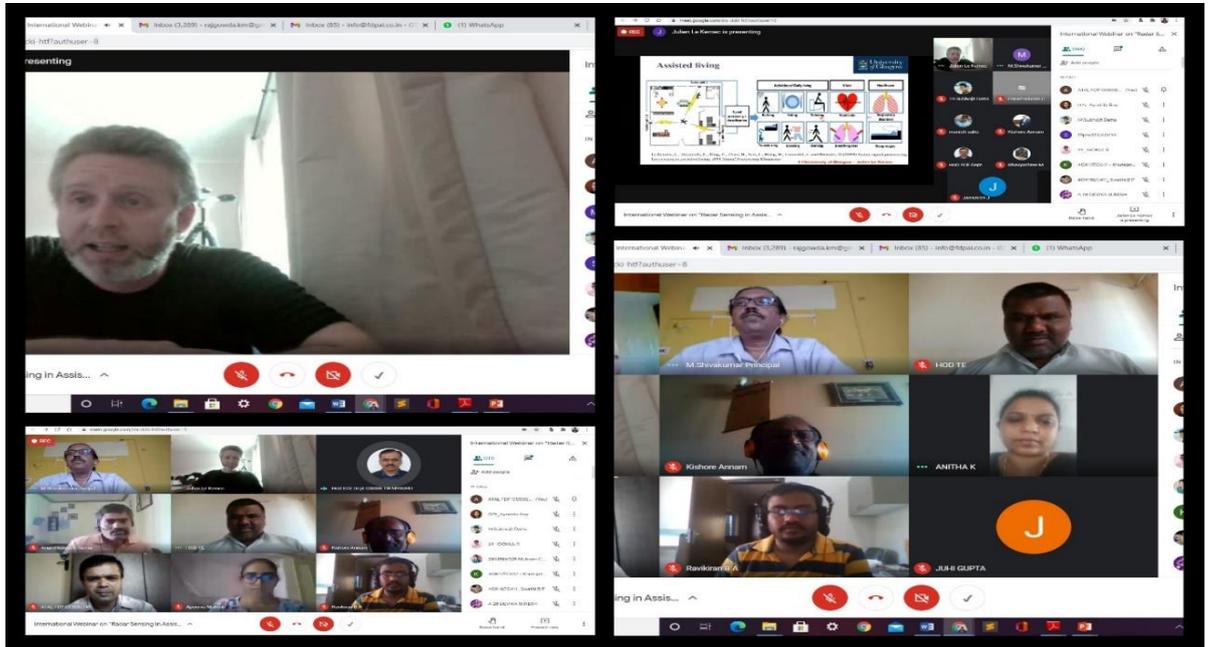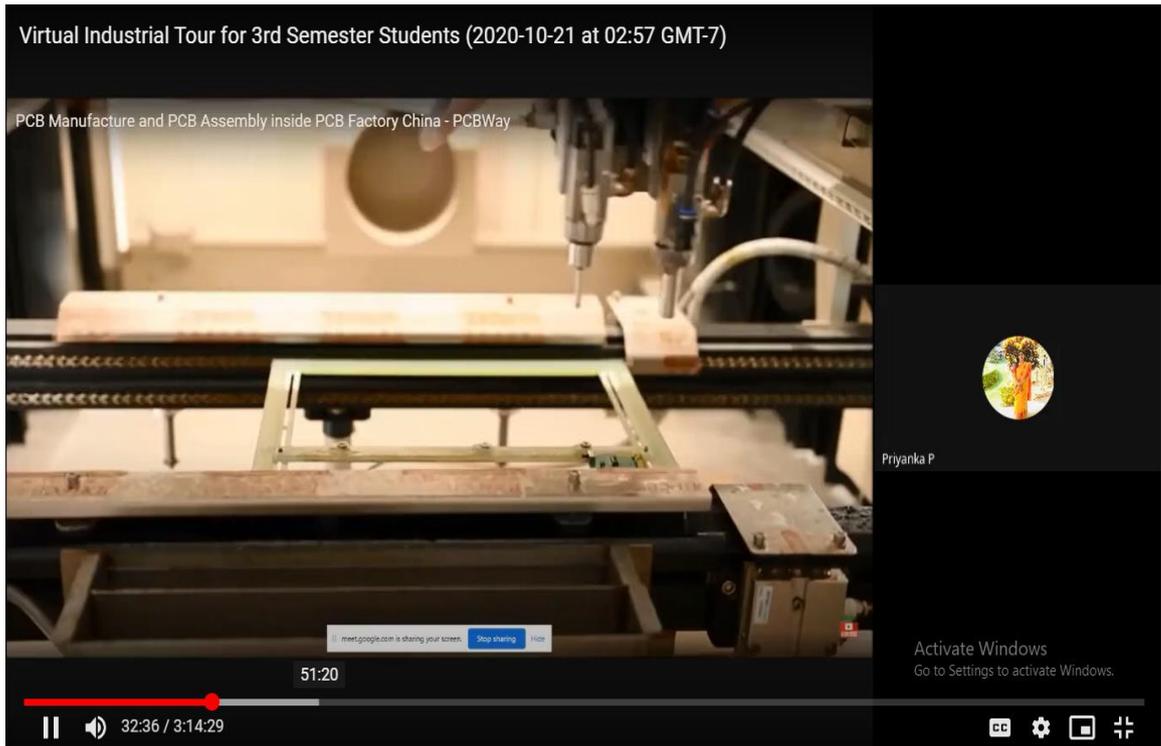

Inauguration of IETE ZONAL (SOUTH) SEMINAR on
"IoT and APPLICATIONS", Office Bearers Conclave & ISF Congress on 3rd August 2021

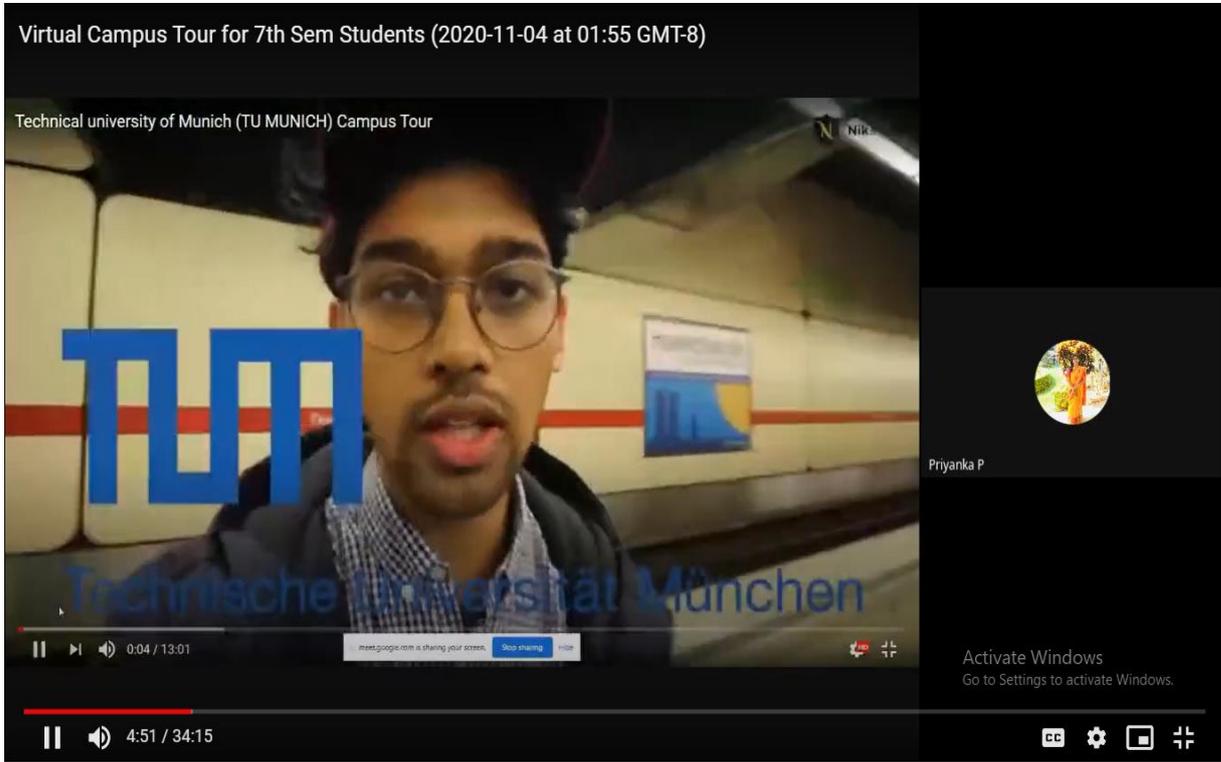# INDUSTRIAL VISITS 2020-21

Virtual Industrial Visit – ODD 2020

Virtual Industrial Visit Planned for 3rd semester ECE on 21/10/2020

Virtual Industrial Visit Planned for 5th semester ECE on 28/10/2020

5th Semester Students will be touring across Tesla Factory. Electronics involved in car and car manufacturing is what the video involves. With this we have a video on virtual reality presented by Harshavardhana Kikeri with whom we have a MoU presented on TEDx.

Virtual Industrial Visit Planned for 7th semester on ECE 04/11/2020

Virtual Industrial Visit – EVEN 2021
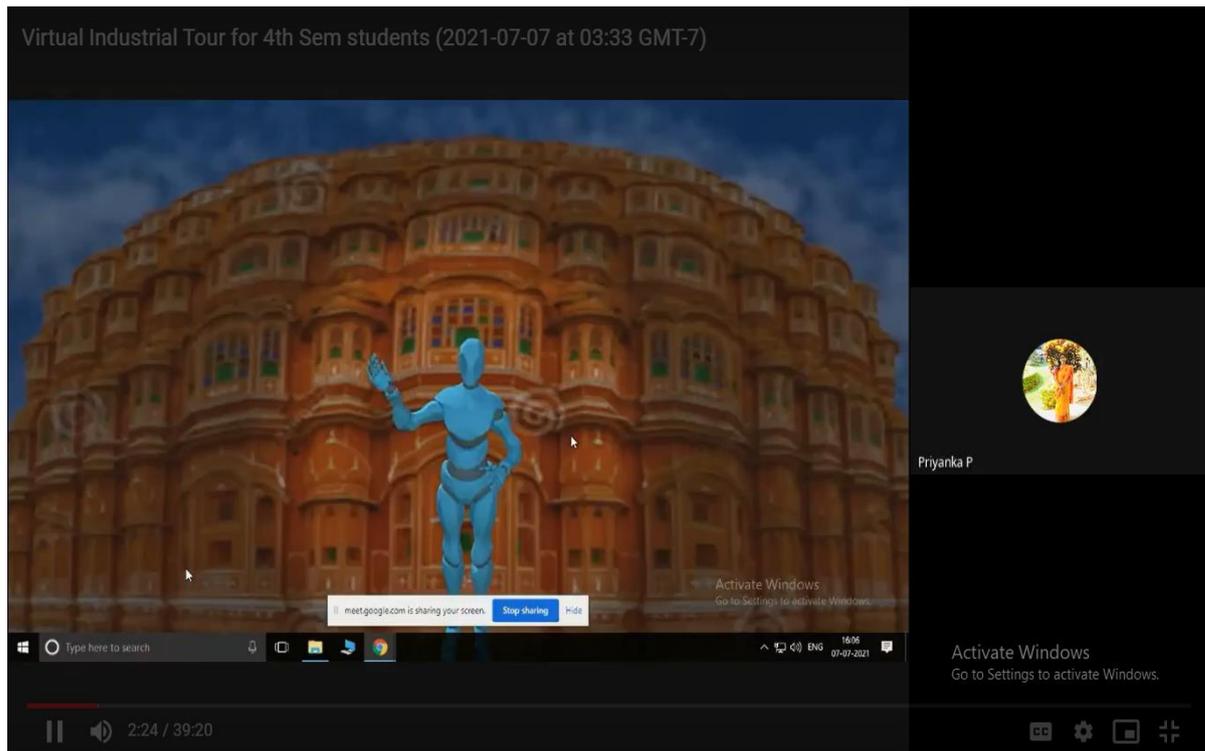
Event Planned for 4th semester Students will be touring across Tesla Factory. Electronics involved in car and car manufacturing is what the video involves. With this we have a video on virtual reality presented by Harshavardhana Kikeri with whom we have a MoU presented on TEDx.
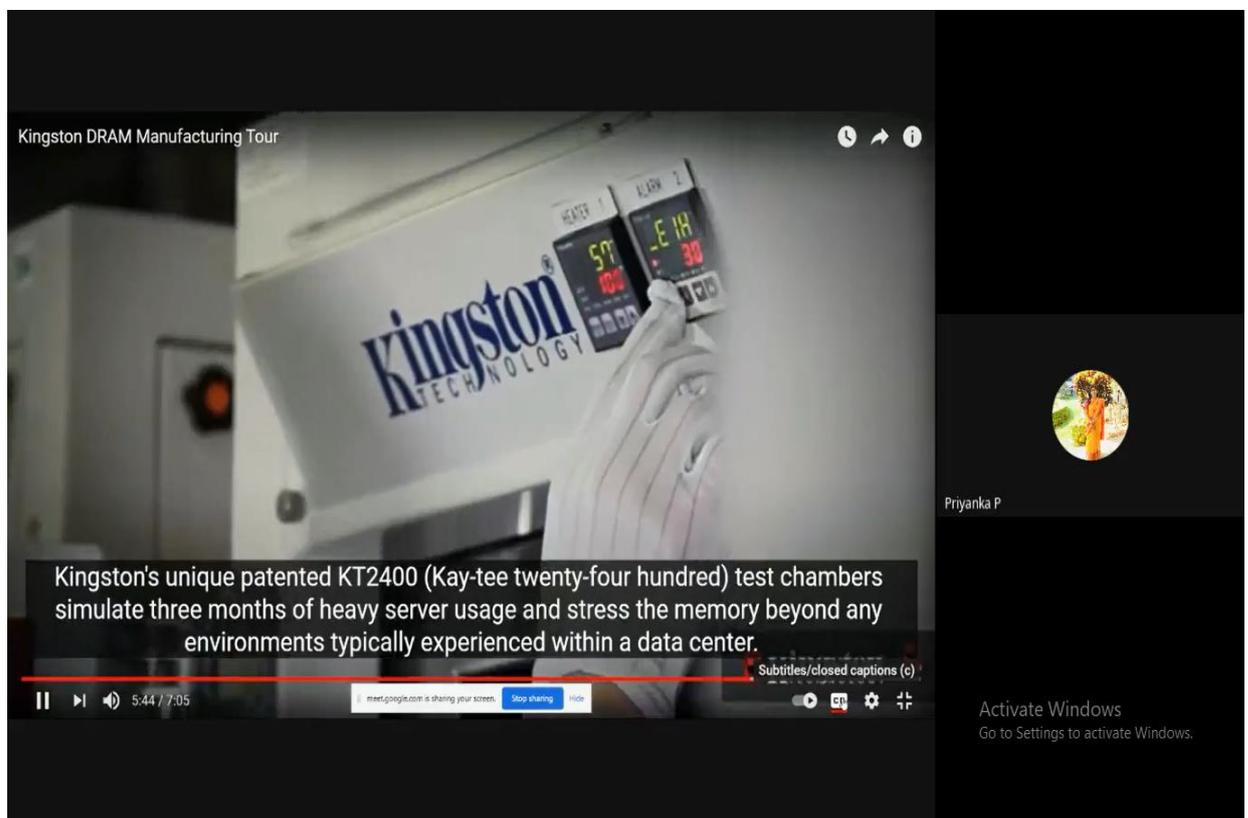
30

For 6th semester students it is Virtual Industrial Tour on DRAM Manufacturing at Kingston and how are ICs made by Infineon with animations and glimpse of fabrication unit setups. On 31/05/2021
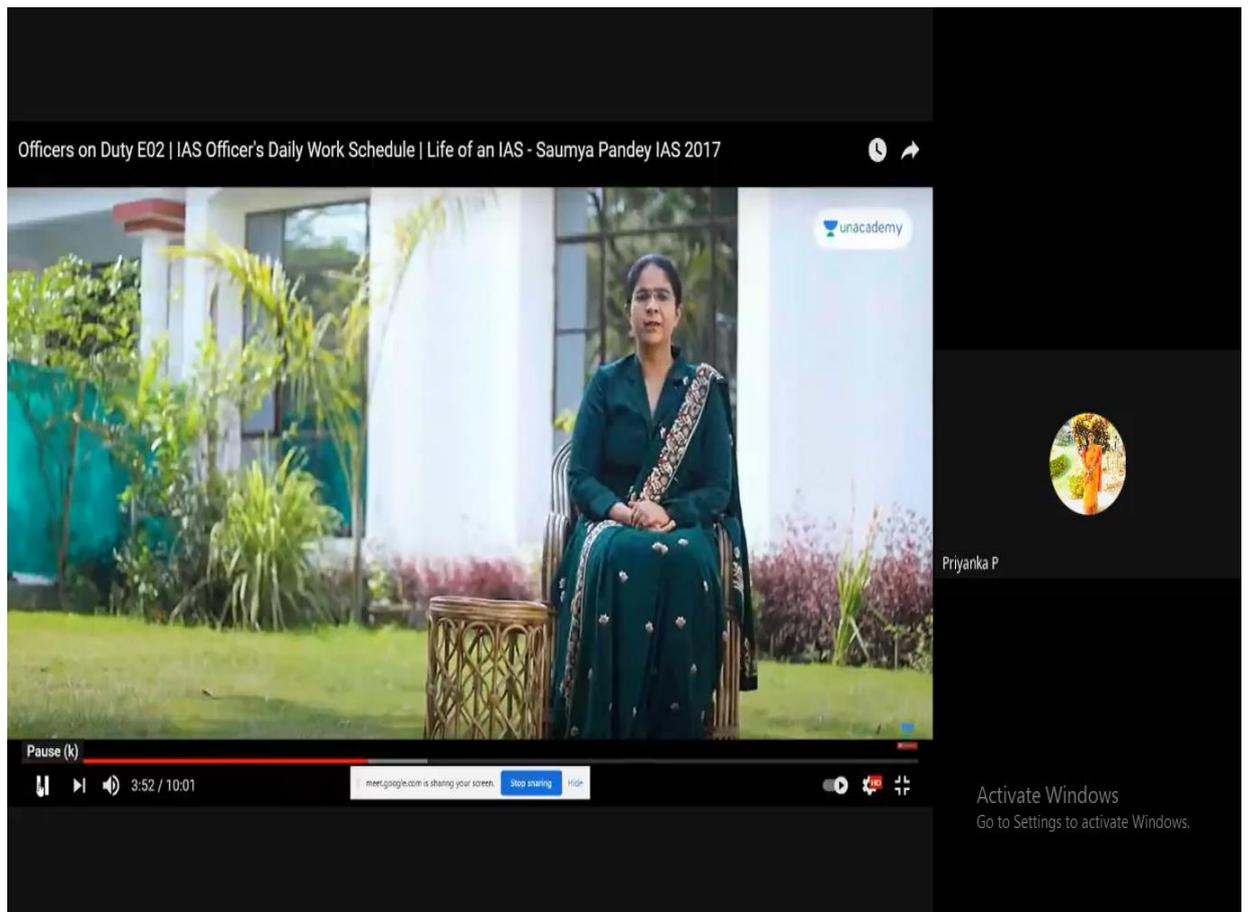
For 8th semester students it is actually an informative video on Central Bureaucracy which can inspire students to take up Civil Service on 04/06/2021

PARENTS–TEACHERS MEETING

Online Parent Teacher Meeting for 3rd,5th and 7th semester of ECE was organized on 28/12/2020 and 29/12/2020
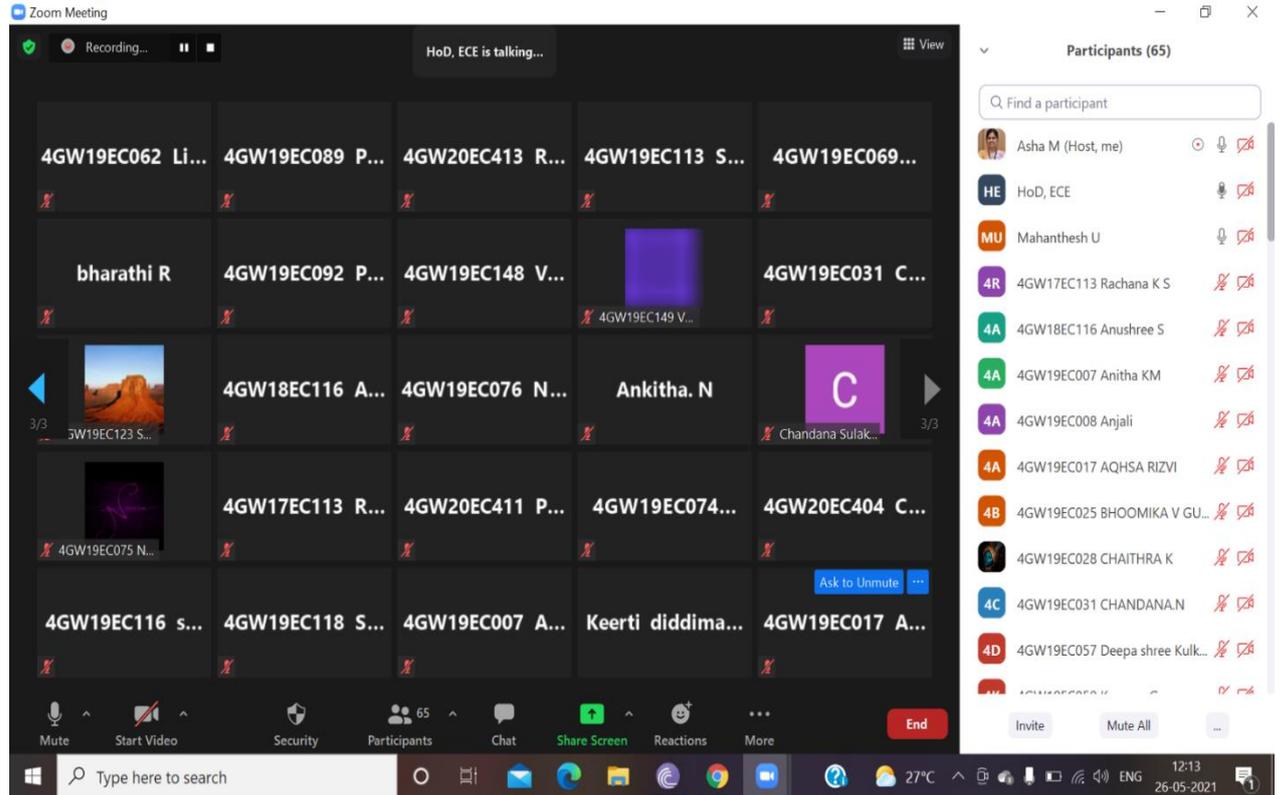
Online Parent Teacher Meeting for 4th ,6th and 8th semester of ECE was organized on 24/05/2021, 24/05/2021 and 26/05/2021

SPONSORED PROJECTS:

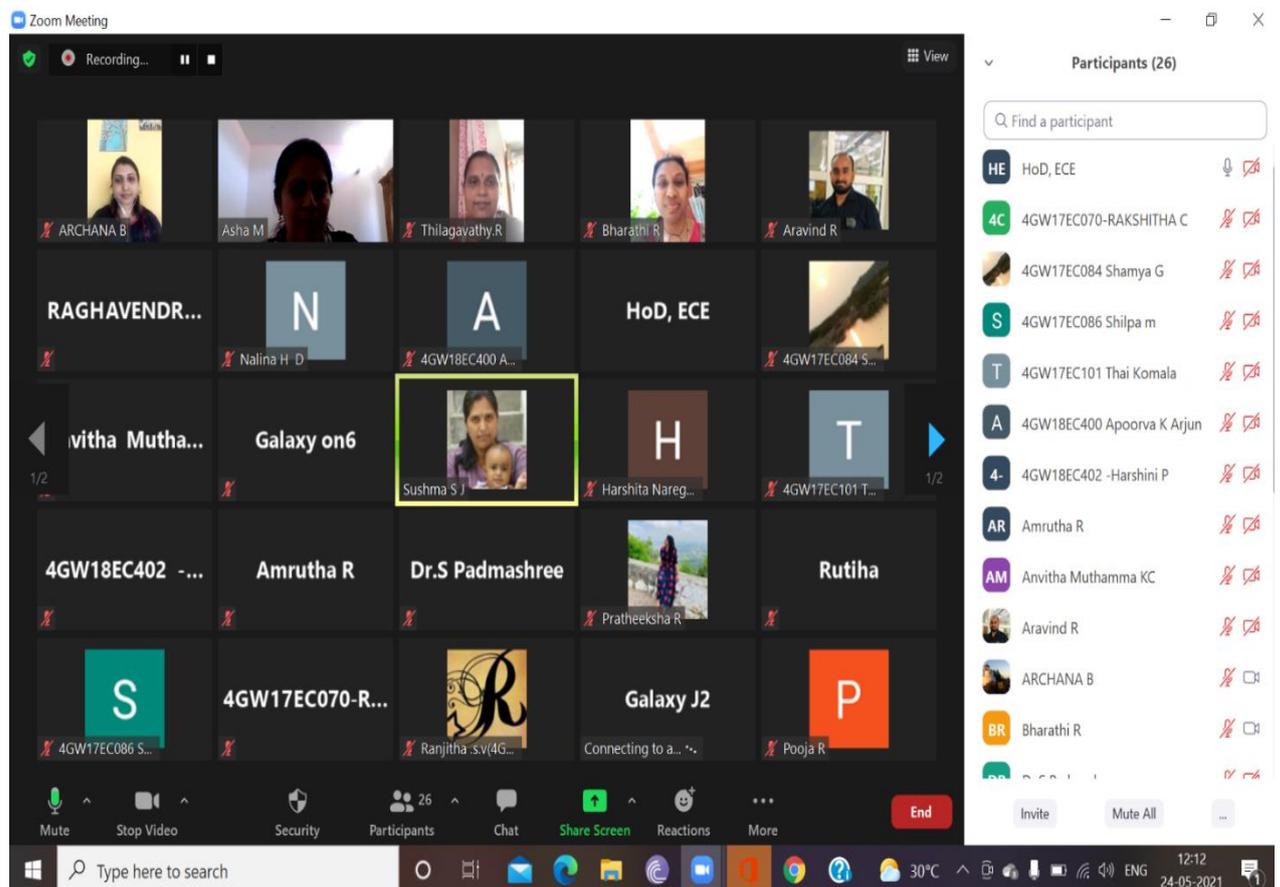| Sl. No.	Sponsoring Agent	Title	Grant	Proposed by	Duration
1	All India Council for Technical Education, New Delhi	Artificial Intelligence by ATAL Faculty Development Program	Rs. 93,000/-	Dr. D V Rajeshwari Devi	5days
2	AICTE-MODROB	"Advanced Communication Lab for Developing and Prototyping 2x2 MIMO systems	Rs. 12,54,902/-	Dr. Rajendra R Patil	24 Months

STUDENTS ACHIEVEMENTS

Students' Paper Publications within the State2020 - 2021

Sl No	Name of Student	Paper Publications	Event Date
1	Rukhayia Sheereen	Event: NCCDS-2021 Place: GSSSIETW, Mysuru Online Activity: Presented a paper entitled "Manhole Detection and Monitoring System"	10th July 2021
2	Prathiksha A R, Sahana Kumari S, Pooja R	Event: NCCDS-2021 Place: GSSSIETW, Mysuru (Online) Activity: Presented a paper entitled "Development of aqua robot for floating debris collection in lake."	10th July 2021
3	Sindhu K B	Event: NCCDS-2021 Place: GSSSIETW, Mysuru (Online) Activity: Presented a paper entitled "COVID-19 Spread Analysis"	10th July 2021
4	P Rachana Naidu	Event: NCCDS-2021 Place: GSSSIETW, Mysuru (Online) Activity: Presented a paper entitled "Smart Women Safety Device Using Iot"	10th July 2021
5	Hamsini S Ram, Ambika M S, Chandini G S	Event: NCCDS-2021 Place: GSSSIETW, Mysuru (Online) Activity: Presented a paper entitled "Design and Implementation of Automatic Multifunctional Military Robot"	10th July 2021

Co-curricular Activities 2020-2021

Sl. No	Name of Student	Workshop/Seminar/internship/Technical/Non-Technical Event	Event Date
1	Shobha h, Shreelaxmi Ganesh, Sneha N S, Greeshma Shankar, Chandana SK, Uma D	Event : Cyber peace foundation level1 training Place: Cyber Peace Foundation & AICTE Activity: Participated	2021
2	Shobha h	Event : Online Course on Geospatial technology for archaeological Studies Place: GSSSIETW, Mysuru (Online) Activity: Participated	17th to 21st May 2021
3	Shreelaxmi Ganesh	Event : Introduction to Kubernetes & College to Cloud Native: CNCF Student Community + DoK + Civo Series #2 Place: Online Activity: Participated	1st July 2021
4	Shreelaxmi Ganesh	Event : IIRS outreach program Machine learning to Deep Learning Place: Online Activity: Participated	5th to 9th July 2021
5	Sneha N S	Event : "DifferInt-2020 Intercollegiate Math Quiz for Aspiring Engineers" Place: GSSSIETW, Mysuru (Online) Activity: Participated	20th August 2020
6	Sneha N S, Greeshma Shankar	Event : ONLINE QUIZ ON APPLIED PHYSICS Place: GSSSIETW, Mysuru (Online) Activity: Participated	19th July 2020
7	Sneha N S	Event : Webinar on "Printable Electronic Sensors to Enable New Connected Platforms" Place: IETE Mysuru Centre Activity: Participated	30th April 2021
8	Sneha N S	Event : Webinar on "Internet of Things and TinyML: The New Era of Smart Objects" Place: IETE Mysuru Centre Activity: Participated	26th March 2021
9	Sneha N S, Greeshma Shankar	Event: One week online SDP on NI-Multisim Place : GSSSIETW, Mysuru (Online) Activity: Participated	10th to 14th August 2020
10	Sneha N S	Event: Webinar on "Data Science"" Place : IETE Mysuru Centre Activity: Participated	27th Match 2021
11	Sneha N S	Event: Webinar on "Intelligent receiver design and future communication for 6G technology" Place : IETE Mysuru Centre Activity: Participated	13th March 2021

12	Sneha N S	Event: Expert Talk on 'Introduction to Cybersecurity at Physical Level' Place : IEEE Mysore Subsection Activity: Participated	16th April 2021
13	Sneha N S	Event: Short course on "Learn to Design your own Solar Home System". Place: Energy Swaraj Foundation in association with Makers Duniya. Activity: Participated.	5th December 2020
14	Sneha N S	Event: Online course on "Geographical Information System" Place : Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun Activity: Participated	28th Sep to 15th Oct 2020
15	Greeshma Shankar	Event: "GENERAL AWARENESS QUIZ" Place : The Institute of Education Onkarmal Somani College of Education, Mysore (online) Activity: Participated	18th to 20th August 202
16	Greeshma Shankar	Event: Webinar on "Recent Trends and Job Opportunities in Automobile Industry" Place : GSSSIETW, Mysuru Activity: Participated	17th October 2020
17	Greeshma Shankar	Event: Online Webinar on "Blockchain Technology" Place : TEQUED Labs Activity: Participated	5th August 2020
18	Greeshma Shankar	Event: Online Webinar on Open knowledge in Network & Security Place : ATME, Mysuru Activity: Participated	25th July 2020
19	Prathiksha A R, Sahana Kumari S, Pooja R	Event: "5th National Level IEEE Project Competition-2021" Place : IEEE Student Branch (STB17861), GSSSIETW Activity: Aqua robot for floating debris collection in lake	26th June 2021.
20	Greeshma Shankar	Event: One day national level webinar on " python programming and internet of thing Place : Shri sangameshwar arts, commerce,BCA, BSW and PG (MCOM and MCW) college, CHADCHAN Activity: Participated	29th August 2020
21	Inchara H S	Event: Online Quiz on "Indian Mythology" Place :VVCE, Mysuru Activity: Participated	6th July 2020
22	Inchara H S	Event: Online Quiz on "Network Theory" Place :VVCE, Mysuru Activity: Certificate of Award with a passing percentage of 73%	23rd June 2020

23	Inchara H S	Event: Online Quiz on "8051 Microcontroller" Place :VVCE, Mysuru Activity: Certificate of Award with a passing percentage of 75%	1st July 2020
24	Inchara H S	Event: Workshop on Networking Place :IEEE-SJCE Student Branch Activity: Participated	December 2020
25	Inchara H S	Event: Coding competition CODEFIESTA Place : IEEE-SJCE Student Branch Activity: Participated	9th May 2021
26	Inchara H S	Event: Technical Wing Place : APTI Club, GSSSIETW, Mysuru Activity: Second Place in CODESPIRON	4th January 2021
27	Uma	Event: The Guinness world record event Place : Guvi Activity: Participated	24th – 25th April 2021
28	Bhoomika Murthy S, Dhanya shree K B, Divya H, Bhavana J	Event: "IDEAthon-2021" Place : GSSSIETW, Mysuru Activity: Participated	4th June 2021
29	Bhumika S	Event: 5th National level IEEE project competition-2021 Place : GSSSIETW, Mysuru (Online) Activity: Presented a paper entitled "Development of real time facial emotional analysis with speech data fusion using random forest algorithm"	26th June 2021
30	Harshitha S A	Event: Webinar on " Bottom - up Nanofabrication using Glancing angle Deposition Place : GSSSIETW(Online) Activity: Participated	28th November 2020.
31	Bhavyashree M	Event : Differint - 2020 intercollegiate Math Quiz Place : GSSSIETW, Mysuru (Online) Activity: Participated	20th August 2020
32	Bhavyashree M	Event : SDP on Fundamentals of Python Programming and its applications (workshop) Place : GSSSIETW, Mysuru (Online) Activity: Participated	10th to 14th August 2020

FACULTY ACHIEVEMENTS

Faculty Publication Summary 2020-21

Individual Publications Details of Academic Year 2020-21

Sl No	Name of Faculty	Confe rence	Scopus	Others	Book chapter	Total
1	Dr.Rajendra R Patil		1	6		7
2	Dr.Parameshachari B D		6			6
3	Dr.S.Padmashree			4		4
4	Dr.Manjula G		1	2		3
5	Dr.Sushma SJ			3		3
6	Dr.Jayanth J	1	2		1	4
7	Dr. D V Rajeshwari Devi	1	1	3		5
8	Anitha K			1		1
9	Asha M	1	1	1		3
10	Thilagavathy R			4		4
11	Dr.Archana B		1	1		2
12	Bharathi R			3		3
13	Mahanthesha U	1	1	1	1	4
14	Padma R			2		2
15	Basavanna M	1	1	1		3
16	Spoorthi. Y		1	2		3
17	Nalina H D		1	2		3
18	Shyamala C			2		2
19	Raghavendra Y M		2	1		3
20	Aravind R		2	2		4
21	Boregowda H B			1		1
22	Rashmi H C			1		1
23	Sunitha R		1	1		2
24	Priyanka P			1		1
25	Yashonidhiyajaman			1		1
	Total	5	22	46	2	75

Journal Publications

Sl No.	Name of Staff	Paper Title	Journal	Date of publication
1	Dr. Rajendra R Patil	A Precoding Based PAPR Minimization Schemes for NOMA in 5G Network	SN Computer Science (2021) 2:262 https://doi.org/10.1007/s42979-021-00639-z	8-5-2021
2	Dr. Rajendra R Patil	Slot-Based Mutual Coupling Reduction Technique for MIMO Antenna	SN Computer Science (2021) 2:104 https://doi.org/10.1007/s42979-021-00502-1	8-5-2021

3	Dr. Rajendra R Patil	Bandwidth Enhancement of Microstrip Antenna Using Fractal Geometry for S-Band Applications	SN Computer Science (2021) 2:282 https://doi.org/10.1007/s42979-021-00675-9	20-5-2021
4	Dr. Rajendra R Patil	Design, Modeling and Experimental Study of GHz Patch Antenna Coated with Conductive Layer of Nanomaterial for Enhanced Characteristics with Defected Ground Structure in Communication Network Applications	SN Computer Science (2021) 2:152 https://doi.org/10.1007/s42979-021-00501-2	19-3-2021
5	Dr. Rajendra R Patil	Simulation and practical study of L and inverted L slot heptaband rectangular microstrip antenna-notch band characteristics	Int. j. inf. tecnol. Simulation and practical study of L and inverted L slot heptaband rectangular microstrip antenna-notch band characteristics | SpringerLink	10-5-2021
6	Dr. Rajendra R Patil	Performance Analysis of Multiuser NOMA using Non Orthogonal Spreading Sequence	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
7	Dr. Rajendra R Patil	Crop Yield Prediction using Artificial Intelligence	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
8	Dr.Parameshachari B D	Classification and Investigation of Alzheimer Disease Using Machine Learning Algorithms	ShwetaMadiwalar, Sujata NPatil , Shashidhar H , and Parameshachari B. D "Classification and Investigation of Alzheimer Disease Using Machine Learning Algorithms', Biosc.Biotech.Res.Comm. Special Issue Vol 13 No 13 Pp-15-20, 2020(WOS Indexed)	30/12/2020
9	Dr.Parameshachari B D	Frame Processing for Gesture Recognition Using CNN	Saba Naaz, K B Shiva Kumar and Parameshachari B D "Frame Processing	27/12/2020

				for Gesture Recognition Using CNN", Biosc.Biotech.Res.Comm. Special Issue Vol 13 No 13 Pp-252	
10	Dr.Parameshac hari B D	"Machine Learning Applications for Automated Breast Cancer Detection and Analysis	Priya B Bagewadi, Sujata N Patil, Parameshachari B. D and ShwetaMadiwalar "Machine Learning Applications for Automated Breast Cancer Detection and Analysis", Biosc.Biotech.Res.Comm. Special Issue Vol 13 No 13 Pp-21-27, 2020(WOS indexed)	26/12/2020
11	Dr.Parameshac hari B D	Selective Image Encryption of Medical Images Based on Threshold Entropy and Arnold Cat Map	Doi: http://dx.doi.org/10.21786/bbrc/13.13/27	30/12/2020
12	Dr.Parameshac hari B D	"Prediction of muscular paralysis disease based on hybrid feature extraction withmachine learning technique for COVID-19and post-COVID-19 patients	PrabuSubramani, Srinivas K, Kavitha Rani B, Sujatha R and Parameshachari, B.D, "Prediction of muscular paralysis disease based on hybrid feature extraction withmachine learning technique for COVID-19and post-COVID-19 patients" Personal and Ubiquitous Computing, PP 1-14 (2021)(Sci indexed)	3/3/2021
13	Dr.Parameshac hari B D	Cascade Object Detection and Remote Sensing Object Detection Method Based on Trainable Activation Function	S. N. Shivappriya M. Jasmine PemeenaPriyadarsini, AndrzejStateczny ,C. Puttamadappa and B D Parameshachari "Cascade Object Detection and Remote Sensing Object Detection Method Based on Trainable Activation Function. MDPI	8/1/2021

				Remote Sens. 2021, 13(2), 200. (Sci indexed)	
14	Dr. S Padmashree	An AI Approach Towards Civil Engineering Design Annotations and Object Detection	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	8/1/2020
15	Dr. S Padmashree	Creation of Speech Processing Model for Civil Engineering Profile	International Journal of Engineering Research & Technology (IJERT)ISSN: 2278-0181	8/1/2020
16	Dr. S Padmashree	Correlation Analysis for Determining Efective Data in Machine Learning: Detection of Heart Failure	SN Computer Science (2021) 2:213 https://doi.org/10.1007/s42979-021-00617-5	5/1/2021
17	Dr. S Padmashree	Pipe Inspection Robot using Labview	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
18	Dr.Manjula G	Automatic Handwritten Recognition of Digits using Artificial Neural Networks	GIS SCIENCE JOURNAL, VOLUME 8, ISSUE 5, ISSN NO : 1869-9391	5/1/2021
19	Dr.Manjula G	Speech Enhancement using Hidden Markov Models and Mel-Frequency	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
20	Dr.Manjula G	Automatic Waste Management and Segregation System using IoT	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
21	Dr.Sushma S J	Correlation Analysis for Determining Efective Data in Machine Learning: Detection of Heart Failure	SN Computer Science (2021) 2:213 https://doi.org/10.1007/s42979-021-00617-5	5/1/2021
22	Dr.Sushma S J	Design and Implementation of Automatic Multifunctional Military Robot	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
23	Dr.Sushma S J	Covid-19 Spread Analysis	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021

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24	Dr.Jayanth J	Classification of crops using high resolution satellite image,	. Seybold Report, 2020, 15(8), pp. 473â€"481, 1533-9211	September 2020	
25	Dr.Jayanth J	Classification of Crops and Crop Rotation Using Remote Sensing and GIS-Based Approach: A Case Study of DoddakawalandeHobli, Nanjangudu Taluk	Journal of the Indian Society of Remote Sensing, 2021, 0974-3006	Feb 14, 2021	
26	Dr.Jayanth J	Hands on design and Implementation of IoT for Beginners	LAP LAMBERT Academic Publishing ISBN-13 : 978-6202796163.	8/21/2020	
27	Dr.D V Rajeshwari Devi	Sub-band-based feature fusion and hybrid fusion approaches for multimodal biometric identification	1. International Journal of Biometrics, Vol.12, No.4	September 2020	
28	Dr.D V Rajeshwari Devi	Campus Navigator with Speech Assistance	(2) International Journal of Engineering Research & Technology	August 2020	
29	Dr.D V Rajeshwari Devi	Black Box for Automobiles	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021	
30	Dr.D V Rajeshwari Devi	Real Time Water Quality Monitoring using IOT	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021	
31	Dr.Archana B	Integrated approach for efficient power consumption and resource allocation in MIMO-OFDMA	International Journal of Electrical and Computer Engineering (IJECE), Vol.10, No.2, April 2020, pp. 2065~2072 ISSN: 2088- 8708, DOI: 10.11591/ijece.v10i2. pp2065-2072, http://ijece.iaescore.c om/index.php/IJECE	4/1/2020	
32	Dr.Archana B	OFDM System Implementation, Channel Estimation and Performance Comparison of OFDM Signal	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021	
33	Anitha K		International Journal of Engineering Research &	10-7-2021	

			Technology (IJERT) ISSN: 2278-0181	
34	Asha M	Automatic Handwritten Recognition Of Digits Using Artificial Neural Networks	GIS SCIENCE JOURNAL	5/1/2021
35	Asha M	Accident Prevention and Road Safety in Hilly Region using IOT Module	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
36	Thilagavathy R	Fieldwork robot- monitor and perform agricultural tasks	International Journal of Engineering Applied Sciences and Technology, 2020, Volume 5, Issue 4, ISSN No. 2455-2143, Pages 196-202	8/1/2020
37	Thilagavathy R	Communication and Coordination of Heterogeneous Robots,	2.International Journal of Engineering Research & Technology, Volume 8, Issue 13, ISSN No.2278-0108	8/1/2020
38	Thilagavathy R	Gas Leakage Detector Insect Robot using Raspberry Pi3	3.International Journal of Engineering Research & Technology, Volume 8, Issue 13, ISSN No.2278-0108	8/1/2020
39	Thilagavathy R	Patient Monitoring and Assistance using Robotic ARM	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
40	Bharathi R	Paper 1: AN IMAGE TRANSFER USING NI-USRP; Paper 2-Smart Aqua Nurturing System for Fish; paper 3 - Detection and Measurement of Brain Tumor using LabVIEW	International Journal of Engineering Applied Sciences and Technology, 2020; Vol. 5, Issue 4, ISSN No. 2455-2143, Pages 191-195	August 2020
41	Bharathi R	Paper 1: AN IMAGE TRANSFER USING NI-USRP; Paper 2-Smart Aqua Nurturing System for Fish; paper 3 - Detection and Measurement of Brain Tumor using LabVIEW	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Published by, www.ijert.org NCCDS - 2020 Conference Proceedings	10-7-2020
42	Bharathi R	Autonomous Tour Guide Robot using Embedded	International Journal of Engineering	10-7-2021

		Systems	Research & Technology (IJERT) ISSN: 2278-0181	
43	Basavanna M	Mapping of an Unknown Indoor Environment Using 2D- Lidar and ROS for Mobile Robot Navigation	International Journal of Advanced Science and Technology (Scopus Indexed), Vol. 29, No. 3, Aug 2020, pp. 14723 – 14729	Aug 2020
44	Basavanna M	Navigation of Mobile robot through mapping using orbbec astra camera and ROS	Springer First International Conference on Future Technologies in Manufacturing, Automation, Design and Energy(ICOFT-2020) organized by National Institute of Technology, Puducherry on 28th - 30th December 2020	30/12/2020
45	Basavanna M	Design & Development of Learning Assistance device for Visually Impaired People	International Journal of Engineering Research & Technology, IETE – 2020 Conference Proceedings, Special Issue – 2020.	10-7-2021
46	Spoorthi Y	Wheelchair Controlled by Head Movement	Seybold , ISSN :1533 -9211,Scopus volume 15, Issue 9 ,2020 PAPER ID:SBR/0920-468	2020
47	Spoorthi Y	IOT Based Smart Traffic Management System Traffic Management System	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
48	Spoorthi Y	Signature Verification System using Neural Networks	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
49	Spoorthi Y	Diabetes Prediction in Women using Machine Learning Techniques	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
50	Raghavendra Y M	Energy Efficient Intra Cluster Gateway Optimal Placement in Wireless Sensor Network	https://drive.google.com/u/0/open?usp=forms_web&id=1cgrBINj10N9VBSm_rAEqgGsi81lCDtV6	Feb 2021

51	Raghavendra Y M	Energy efficient routing in wireless sensor network based on mobile sink guided by stochastic hill climbing	https://drive.google.com/file/d/1srSjn8RueVXfJ4UIu_KnuN19U9SocCCr/view Vol. 10, No. 6, , pp. 5965~5973	December 2020
52	Raghavendra Y M	IoT Based Smart Home Automation with Security and Disaster Detector	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
53	Mahanthesha U	Human action recognition using stip evaluation techniques	Advanced Computing and Intelligent Engineering. Advances in Intelligent Systems and Computing, vol 1198. Springer, Singapore. https://doi.org/10.1007/978-981-15-6584-7_38, Print ISBN :978-981-15-6583-0, Online ISBN: 978-981-15-6584-7	30thOctober 2020.
54	Mahantesha U	Human action recognition using stip evaluation techniques	Advances in Intelligent Systems and Computing, vol 1198. Springer, Singapore. https://doi.org/10.1007/978-981-15-6584-7_38, Print ISBN :978-981-15-6583-0, Online ISBN: 978-981-15-6584-7,	10/30/2020
55	Mahantesha U	Development of Real Time Facial Emotional Video Analysis with Speech Data Fusion using Random Forest Algorithm	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
56	Nalina H D	Wheelchair Controlled by Head Movement	Seybold ISSN :1533 - 9211,Scopus volume 15, Issue 9 ,2020 PAPER ID:SBR/0920-468	2020
58	Nalina H D	Robotic Fish	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
59	Nalina H D	Smart Women Safety Device using IoT	International Journal of Engineering Research &	10-7-2021

			Technology (IJERT) ISSN: 2278-0181	
61	Shyamala C	Smart Mobile App for Remote Health Monitoring System using IOT	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
62	Shyamala C	IoT based Cloud Integrated Smart Classroom for Smart and A Sustainable Campus	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
63	Aravind R	IOT Based Smart Traffic Management System	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
64	Aravind R	IOT based Real Time Data Monitoring for Industry	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
65	Aravind R	Classification of crops using high resolution satellite image,	. Seybold Report, 2020, 15(8), pp. 473â€"481, 1533-9211	September 2020,
66	Aravind R	Classification of Crops and Crop Rotation Using Remote Sensing and GIS-Based Approach: A Case Study of DoddakawalandeHobli, Nanjangudu Taluk	Journal of the Indian Society of Remote Sensing, 2021, 0974-3006	Feb 14, 2021
67	Yashonidhi Y	Electronic PEST Controller	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
68	Rashmi H C	IOT based Real Time Weather Predication System using NODEMCU 12-E ESP266 and Lab View	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021
69	Sunitha R	Wheelchair Controlled by Head Movement	Seybold ISSN :1533 - 9211,Scopus volume 15, Issue 9 ,2020 PAPER ID:SBR/0920-468	2020
70	Sunitha R	Aadhaar Enabled Automated Ration Distribution System for Remote Places using Arduino	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021

Sl No.	Name of Staff	Paper Title	Journal	Date	Remarks
71	Priyanka P	Crop Yield Prediction using Artificial Intelligence	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	10-7-2021	

Faculty Scopus/Springer/Elsevier Publications 2020-21

Sl No.	Name of Staff	Paper Title	Journal	Date	Remarks
1	Dr. Rajendra R Patil	Design of Protocol for Handwriting Recognition Using FPGA	Proceedings of Second International Conference on Smart Energy and Communication, Algorithms for Intelligent Systems, https://doi.org/10.1007/978-981-15-6707-0_49	2021	SPRINGER
2	Dr. Rajendra R Patil	Simulation and practical study of L and inverted L slot heptaband rectangular microstrip antenna-notch band characteristics	Int. j. inf. tecnol. Simulation and practical study of L and inverted L slot heptaband rectangular microstrip antenna-notch band characteristics | SpringerLink	10-5-2021	SCOPUS
3	Dr.Parameshachari B D	Detection of Plolycystic Ovaroan Syndrome Using Follocle Recognition Techniquee	Global Transitions Proceedings, http:doi.org/10.1016/j.gltp.2021.08.010	12 August 2021	Elsevier
4	Dr.Parameshachari B D	Dynamic route discovery using modified grasshopper optimization algorithm in wireless ad-hoc visible light communication network	https://doi.org/10.3390/electronics10101176	12 May 2021	SCOPUS
5	Dr.Parameshachari B D	Low area PRESENT cryptography in FPGA using TRNG-PRNG key generation	DOI:10.32604/cmc.2021.014606	April 2021	SCOPUS
6	Dr.Parameshachari B D	Logistic Sine Map (LSM) Based Partial Image Encryption	**DOI:** 10.1109/NCCC49330.2021.9428854	14 May 2021	SCOPUS

7	Dr.Parameshachari B D	Cascade object detection and remote sensing object detection method based on trainable activation function	https://doi.org/10.3390/rs13020200	5 jan 2021	SCOPUS
8	Dr.Parameshachari B D	Moving Vehicle Detection and Classification Using Gaussian Mixture Model and Ensemble Deep Learning Technique	https://doi.org/10.1155/2021/5590894	18 May 2021	SCOPUS
9	Dr.Parameshachari B D	Land-Use and Land-Cover Classification Using a Human Group-Based Particle Swarm Optimization Algorithm with an LSTM Classifier on Hybrid Pre-Processing Remote-Sensing Images	https://doi.org/10.3390/rs12244135	15 Dec 2020	SCOPUS
10	Dr. Manjula G	Automatic Handwritten Recognition of Digits using Artificial Neural Networks	GIS SCIENCE JOURNAL, VOLUME 8, ISSUE 5, ISSN NO : 1869-9391	5/1/2021	SCOPUS
11	Dr. Jayanth J	Classification of crops using high resolution satellite image,	Seybold Report, 2020, 15(8), pp. 473â€"481, 1533-9211	September 2020,	SCOPUS
12	Dr. Jayanth J	Classification of Crops and Crop Rotation Using Remote Sensing and GIS-Based Approach: A Case Study of Doddakawalande Hobli, Nanjangudu Taluk	Journal of the Indian Society of Remote Sensing, 2021, 0974-3006	Feb 14, 2021	SCOPUS
13	Dr. D V Rajeshwari Devi	Sub-band-based feature fusion and hybrid fusion approaches for multimodal biometric identification	1. International Journal of Biometrics, Vol.12, No.4	September 2020	SCOPUS
14	Archana B	Integrated approach for efficient power consumption and resource allocation in MIMO-OFDMA	International Journal of Electrical and Computer Engineering (IJECE), Vol.10, No.2, April 2020, pp. 2065~2072 ISSN: 2088- 8708, DOI: 10.11591/ijece.v10i2.pp2065-2072, http://ijece.iaescore.com/index.php/IJECE	4/1/2020	SCOPUS

15	Asha M	Automatic Handwritten Recognition Of Digits Using Artificial Neural Networks	GIS SCIENCE JOURNAL	5/1/2021	SCOPUS
16	Spoorthi Y	Wheelchair Controlled by Head Movement	Seybold , ISSN :1533 -9211,Scopus volume 15, Issue 9 ,2020 PAPER ID:SBR/0920-468	2020	SCOPUS
17	Raghavendra Y M	Energy Efficient Intra Cluster Gateway Optimal Placement in Wireless Sensor Network	https://drive.google.com/u/0/open?usp=forms_web&id=1cgrBINj10N9VBSm_rAEqgGsi81lCDtV6	Feb 2021	SCOPUS
18	Raghavendra Y M	Energy efficient routing in wireless sensor network based on mobile sink guided by stochastic hill climbing	https://drive.google.com/file/d/1srSjn8RueVXfJ4UIu_KnuN19U9SocCCr/view Vol. 10, No. 6, , pp. 5965~5973	December 2020	SCOPUS
19	Mahanthesha U	Human action recognition using stip evaluation techniques	Advanced Computing and Intelligent Engineering. Advances in Intelligent Systems and Computing, vol 1198. Springer, Singapore. https://doi.org/10.1007/978-981-15-6584-7_38, Print ISBN :978-981-15-6583-0, Online ISBN: 978-981-15-6584-7	30th October 2020.	Springer
20	Nalina H D	Wheelchair Controlled by Head Movement	Seybold ISSN :1533 -9211,Scopus volume 15, Issue 9 ,2020 PAPER ID:SBR/0920-468	2020	SCOPUS
21	Sunitha R	Wheelchair Controlled by Head Movement	Seybold ISSN :1533 -9211,Scopus volume 15, Issue 9 ,2020 PAPER ID:SBR/0920-468	2020	SCOPUS

3rd National Conference on Communication and Data Science (NCCDS – 2021)

Sl No	Paper Title	Authors
1	Smart AI Assistance for Multiple Application	Anusha P, Bindushree C M, Shreyas A T, Ashwini D S
2	ERUDITO: The Voice Controlled Robot	Dileep Kumar, Amal Francis, Naveen S V, Sourab K, Bharatesh B

3	LoRaWAN	Roshan E C, Dechakka M P
4	A Novel Approach for Analysis of Feedback in Banking System using Machine Learning Algorithm	Maheswaran M, Benaka Santhosh S
5	Manhole Detection and Monitoring System	Ruheena M. A, Rukhayia Sheereen, Sheeba Kulsum, T. Komala
6	Electronic PEST Controller	K. M Shubhashri, Mabel Jane R, Misba Seemath, Nidhishree R Rao, Yashonidhi Yajaman
7	Real Time Forest Anti-Smuggling Monitoring System Based on IOT	Rakshitha G, Sarika S, Shobha S R, Tejashwini S S, Sri Boregowda H B
8	Speech Enhancement using Hidden Markov Models and Mel-Frequency	Priyanka T B, Sindhu, Uma D, Varshitha S M, Manjula G
9	Survey on Detecting Diabetic Retinopathy using Deep Learning	Pratheek R. Bhat, Tejas B.K, Srushti S. Pandit, Jaydeb Mitra, Megha V
10	Performance Analysis of Multiuser NOMA using Non Orthogonal Spreading Sequence	Vanita B. Kaba, Dr. Rajendra R. Patil
11	Automatic Self Driven Metro Train with Disaster Management System	Anusha R, Chetan S, Saniya Kousar, Harish S V
12	Autonomous Tour Guide Robot using Embedded Systems	Lakshya J, Nikitha M, Ashwini, Meghana G R
13	Wireless Eye Monitored Wheel Chair Control	Shalini T, Lohith C V, K Vishal Krishan, Suresh Naik, Shruthi K S
14	Design and Implementation of Automatic Multifunctional Military Robot	Ambika M S, Ananya S Rao, Chandini G S, Hamsini S Ram, Dr. Sushma. S. J
15	Accident Prevention and Road Safety in Hilly Region using IOT Module	Bhumika R, Harshitha S A, Meena D, Asha M
16	Smart Mobile App for Remote Health Monitoring System using IOT	Bhagyashree M S, Ranjitha S V, Rashmitha G, Sahana L, Shyamala C
17	Air Quality Monitoring System	Meghana P Gowda, Harshitha G Y, Jyothi K N, Srushti, Padma R

18	An Implementation of Electronic Shopping Cart Transaction and Display System using Wireless Technology on IOT	Bhagya V, Kiranagoud S G, Lankesh H R, Harish S V
19	Predictive Analysis of Student Stress Level using Machine Learning	Prakruthi Manjunath, Twinkle S, Pola Shreya, Vismaya Ashok, Dr. Shabana Sultana
20	Robotic Fish	Nalina H D, Preethi N S, Rakshitha C, Shilpa M, Sushmitha K M
21	IoT Based Smart Home Automation with Security and Disaster Detector	Y M Raghavendra, Monika M, Gayathri U, Nalina L T, Gahana S Naik
22	IoT based Cloud Integrated Smart Classroom for Smart and A Sustainable Campus	Zehra Mohammed Inayathulla, Shyamala. C
23	Aadhaar Enabled Automated Ration Distribution System for Remote Places using Arduino	Sunitha R, Kavya B, Leha M, Nisarga R, Nalini N
24	Black Box for Automobiles	Dr. Rajeshwari Devi D. V, Krishnaveni M. S, Mandara V , M. D Shobitha, Anvitha Muthamma K. C
25	Smart Women Safety Device using IoT	Nalina H D, Aishwarya B, Harshitha P, Kruthika M , P Rachana Naidu
26	Real Time Water Quality Monitoring using IOT	Dr. Rajeshwari Devi D V, Pratheeksha R, Prakruthi Santhosh, Sushmitha P B, Prarthana M
27	Automation and Protection of Agriculture land using IoT	Vaishnavi S, Varsha O M, Yashaswini T V, Poorvika V M
28	Development of Real Time Facial Emotional Video Analysis with Speech Data Fusion using Random Forest Algorithm	Anusha A U, Anusha C, Bhumika S, Harshini S
29	Development of Aqua Robot for Floating Collection in Water Body	Sahana Kumari S, Pooja R, Pooja K, Prathiksha Shetty
30	IRNSS Data Processing	Kavita Guddad, Dr. Sudha K L, K Nikitha Reddy, Chandana S, K Niharika Reddy, Praveen Raj G

31	Automatic Waste Management and Segregation System using IoT	Namratha A M, Nandini S, Nanditha K, Meghashree C, Dr. Manjula G
32	IOT Based Smart Traffic Management System	Rachana K P, Aravind R, Ranjitha M, Spoorthi Jwanita, Soumya K
33	Crop Yield Prediction using Artificial Intelligence	Priyanka B G, Rashmi G, Sanjana B J, Vinitha K R, Priyanka P, Rajendra R Patil
34	Signature Verification System using Neural Networks	Tushara D, Shridevi Raddy, Shreya K M, Spoorthy Y
35	Material Delivering Robot using Line Guided Vehicle	Bhoomika M, Gayathri S, Kavya R K, Spoorthi Y
36	Sea Water Desalination using Renewable Energy	Binto Sunny, Joseph Sebastain, M V Krishnan Unni, Shilton William
37	IOT based Real Time Data Monitoring for Industry	Aravind R, Yadikiumarani, Meghna K, R Divyashree, Harshitha Naregowda
38	A Comprehensive Review on Blockchain Technology for Interactive Healthcare Systems	Rushali Pawade, Soumya Biradar, Shivalika, Rakshita, Ashalatha Ramegowda, Shivanand S Rumma
39	OFDM System Implementation, Channel Estimation and Performance Comparison of OFDM Signal	Anusha G R, Chandana S N, Shruthi H S, Dr. Archana B
40	SURVEY on Detecting Stress based on Social Interaction in Social Networks	M. Vignesh, Rohan K M, Keerthana N P, Priyanka S, Aishwarya T
41	Detecting Malware in JPEG Files Through EXIF Tag Analysis using Machine Learning	Partha Majumdar
42	Anti-Diabetic Ayurvedic Fruit -Noni	Amareshwar Karatagi, Priyanka Karatagi, Vasudha. R
43	Positioning Li-Fi in Indoor for Large File Data Transfer	Amareshwar Karatagi, Harish Kumar Gowda B H, Shubham R, Anusha G
44	Food Grain Storage Monitoring System	Dr. U B Mahadevaswamy, Megha K M, Arjun V Srivatsa, Ayushi G Jain, Bhoomika Rani B

45	Wi-Fi based Industrial Automation	Apoorva. K. Arjun, Sadhvi T H, Varsha A, Padma R
46	Implementation of WRVFLN for Testing	Ashadeepa S N, Basavaling Hiremath, Sadhana C
47	Electric Battery Life State of Health Models for Electric Vehicles	Ravi Choudhary
48	Performance Improved Battery Modeling for EV Simulation	Shubham Sharma
50	Context Deep Neural Networks Model for Predicting Depression Risk using Multiple Regression	Nishat Afza, Veeresh Biradar, Gururaj Nase
51	Covid 19 Spreaders Identification with A Multiplex Network Approach	Ummesulem, Gururaj Nase, Veeresh Biradar
52	IOT based Real Time Weather Predication System using NODEMCU 12-E ESP266 and Lab View	Roopa M L, Varsharani, Prathima S M, Rashmi H C
53	Diabetes Prediction in Women using Machine Learning Techniques	Spoorthy Y, Sunitha T
54	Patient Monitoring and Assistance using Robotic ARM	Amrutha R, Dama Manasa, Modiyam Chavva Radhika, Monisha M Y, Thilagavathy R
55	Mr. Blue The REVA's Smart Virtual Assistant	Amareshwar Karatagi, Nitha Shekar, Adish H S, Dr. Manjula R B
56	Detection of Unauthorised Access to Smb using Monoseck Protocol Analyser	Anand M, Bhuvana A N, Chinmayi S, Shriya R
57	Speech To Sign Language Conversion using Convolutional Neural Networks	Sreeraksha M R, Vani H Y, Phani Bhushan, D K Shivkumar
58	Stuttered Speech Recognition using Convolutional Neural Networks	Phani Bhushan S, Vani H Y, D K Shivkumar, Sreeraksha M R
59	Audio Steganography using Two Layered Encryptions	Dr. U B Mahadevaswamy, Megha K M, Abhijith B S, Adarsh, Akash M K
60	Covid-19 Spread Analysis	Priyanka H G, Sindhu K B, Surabhi B, Sukruthi M S, Dr. Sushma S J
61	Blind Assistance Device using AI	Safnaz, Nayana Manju Jogi,

		Shreya Shetty, Prasad Rathode, Deeksha K R
62	UV-C Disinfecting and Health Checkup System for Coronavirus	Avinash. R, Dhanush R T, Shashank B C
63	Gas Detection System using Arduino	Raeesa, Navashree, Relin Jane Mascarenhas, Seema Jenitha Tauro, Deeksha K R
64	Commercialize Hydroelectric Power for Household	Amareshwar Karatagi, Pallavi Talur V, Shailaja R
65	Design of Time Efficient 8-Bit Ring Counter using Pulsed Latches	Vanishri Yandigeri, Jayashree Nidagundi
66	Pipe Inspection Robot using Labview	Ranga Nagajyothi, Sindhu S, Sushmitha N, Yogitha M S, Dr. S Padmashree
67	Usage of Volatile Organic Compounds for Detection of Diabetes Mellitus in Exhaled Breath	Rajesh Sudi, Tejaswini R, Vibha Biligere, Tejaswini S. P, Tejaswini M

Students Achievements:

Conference Presentation: 112

Publications: 12

Workshops Attended: 32

SDP Participation: 130

Faculty Achievements:

Publications: 37

Books/Book Chapter: 02

Conference Attended: 39

Workshops/FDP : 132

RESEARCH CENTRE ACHIEVEMENTS

About The Research Centre:

The ECE Research center was sanctioned by VTU in the year 2013. Currently, 13 research scholars are pursuing their Ph.D. in various areas of Electronics and Communication Engineering like Speech Processing, Medical Image Processing, Microstrip Fractal antennas, and Mobile Robotics. The department has 7 doctorates involved in various research activities. Apart from the research, the center is conducting internship for the students in the areas of VLSI design, Signal, Speech & Image processing and software defined radio. The center has published research articles in reputed indexed book chapters and journals. The research center conducts various seminars/webinars in forefront technologies for research scholars and faculty members to benefit them in pursuing their research by inviting resource persons from Industry and IITs.

VTU Belagavi awarded Ph.D. Degree to Three ECE Research Scholars of GSSSIETW, Mysuru

Three research scholars of ECE research centre in GSSS Institute of Engineering and Technology for Women have been awarded Doctor of Philosophy (Ph.D.) degree during 20th Annual Convocation of Visvesvaraya Technological University, Belagavi, on 3rd April 2021

PH.D AWARDIES FROM ECE RESEARCH CENTER.

Mrs. G. Manjula receiving Ph. D award by Padma Vibhushan V. K. Aatre, during 20th Annual Convocation held on 3rd April 2021 at VTU, Belagavi.

Mrs. Vinita Balbhim Patil receiving Ph. D award by Padma Vibhushan V. K. Aatre during 20th Annual Convocation held on 3rd April 2021 at VTU, Belagavi.

Mr. Ravikiarn. H. K receiving Ph. D award by Padma Vibhushan V. K. Aatre during 20th Annual Convocation held on 3rd April 2021 at VTU, Belagavi.

Ph.D status of ECE Rearsch Scholars

Sl No	Name of the Research Guide	Name of the Research Students	Research topic	Status	Year of Registration
1	Dr.Shivakumar M	Mrs. G. Manjula	Identification of the Features of Stuttering through Automatic Speech Recognition and Validation	Ph. D. Awarded	2013
2		Mrs.Latha.M	An Approach for Characterization and reorganization of Dysarthric Speech	Completed Comprehensive Viva Voce	2015
3		Mrs. Arpitha Shankar. S. I	An approach for Cooperative exploration using multiple robots	Completed Comprehensive Viva Voce	2017
4		Mr. Raghunandan	Detection of Articulation rate in adults with stuttering and its Validation	Partially completed Course work	2016
5	Dr. Rajendra R. Patil	Ms. Basanti Ghanti	Physical Layer Network Coding	Ph. D. Awarded	2011
6		Mrs. Vinita Balbhim Patil	Handwriting recognition using hybrid technique	Ph. D. Awarded	2015
7		Mr. Bharamappa Irappa Kattimani	Fractal Microstrip Antenna Design for Wide Band	Completed Comprehensive Viva Voce	2016

			Applications		
8		Mr. Kiran	A Novel Approach To Fetus Gender Detection And Protection Algorithms	Completed Open Seminar 1	2017
9		Mrs. Anitha. K	An Investigation Into Identification and Synthesis of Basic Ragas For Healing in Musical Therapy	Completed Comprehensiv e Viva Voce	2017
10	Dr. Parameshachar i. B. D	Mr. Jithendra P. Nayak	Automated PCB fault detection for natural images of Bare Board using Image Processing Techniques	Completed Comprehensiv e Viva Voce	2017
11		Mr. Keerthi Kumar. M	An Approach for Characterization and Recognition of Silent Speech	Partially completed Course work	2018
12		Ms. Shwetha. S. Patil	Multi Parametric analysis and Semantic Segmentation of Brain tumors constructing statistical and diagnostic tools of predictive value in Magnetic Resonance Imaging	Partially completed Course work	2018
13	Dr. Meenakshi Sundaram	Ms. Shwetha Rani K P	Energy Efficiency Enhancement Schemes and Localization Techniques	Provisionally Admitted and waiting for course work result	2016
14	Dr. Jayanth. J	Mr. Ravikiran H K	Development of compression and reconstruction algorithm for progressive transmission of medical images.	Completed Final Viva voce.	2015
15	Dr. M. V. Sathya Naryana	Mrs. Aruna Devi	The new approaches of dielectric perturbations in a microstrip fed CDRA array for the enhancement of its characteristics.	Partially Completed Course Work	2017

PG: M-TECH(DCN)

Placement Details

Sl. No.	Student Name	USN	Company	Package
1	SUPRIYA G	4GW19LDN02	ACCENTURE	4.5 LPA

TOPPERS ODD-2020

FIRST

SUPRIYA G
4GW19LDN02
88.6%
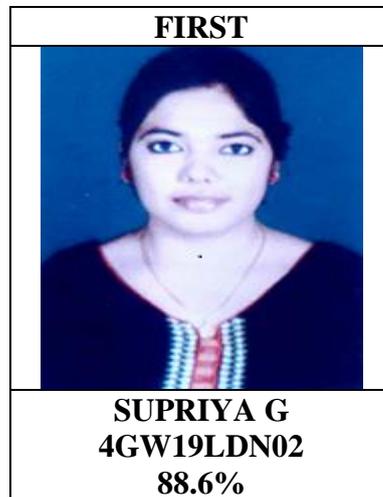
Student Achievements:

1. Zehra Mohammed Inayathulla, III Sem MTech (DCN) of GSSSIETW participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Blockchain Technology" from 2020-12-15 to 2020-12-19 at The National Institute of Engineering.
2. Zehra Mohammed Inayathulla, III Sem MTech (DCN) completed a six weeks online training on Programming with Python under Internshala from 19th Jan 2021.
3. Supriya G, III Sem MTech (DCN) Participated in One Day Training on "NI USRP 2944 for Implementing 2X2 MIMO Systems" organized by Department of Electronics and Communication Engineering, GSSSIETW, Mysuru on 9th March 2021.
4. Lavanya G, III Sem MTech (DCN) Participated in One Day Training on "NI USRP 2944 for Implementing 2X2 MIMO Systems" organized by Department of Electronics and Communication Engineering, GSSSIETW, Mysuru on 9th March 2021.
5. Monisha uday, I Sem MTech (DCN) Participated in One Day Training on "NI USRP 2944 for Implementing 2X2 MIMO Systems" organized by Department of Electronics and Communication Engineering, GSSSIETW, Mysuru on 9th March 2021.
6. Nithyashree L A, I Sem MTech (DCN) Participated in One Day Training on "NI USRP 2944 for Implementing 2X2 MIMO Systems" organized by Department of Electronics and Communication Engineering, GSSSIETW, Mysuru on 9th March 2021.
7. Supriya G presented a paper entitled "Comparison of Retinal Analysisfor Diabetic Retinopathy using CNN models" in the "National Conference on Communication and Data Science" (NCCDS-2021) conducted in association with ISTE and publication partners IJERT on 10th July 2021 and won the Best Paper award.
8. Lavanya G presented a paper entitled "Comparison of Retinal Analysisfor Diabetic Retinopathy using CNN models" in the "National Conference on Communication and

Data Science" (NCCDS-2021) conducted in association with ISTE and publication partners IJERT on 10th July 2021 and won the Best Paper award.

9. Zehra Mohammed Inayathulla presented a paper entitled "IoT based cloud Integrated smart classroom for smart and sustainable campus" in the "National Conference on Communication and Data Science" (NCCDS-2021) conducted in association with ISTE and publication partners IJERT on 10th July 2021.

10. Lavanya G, III Sem MTech (DCN) of GSSSIETW participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Blockchain Technology" from 2020-12-15 to 2020-12-19 at The National Institute of Engineering.

11. Lavanya G, III Sem MTech (DCN) of GSSSIETW participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Smart Cities" from 2020-12-15 to 2020-12-19 at NIT, Silchar.

12. Lavanya G, III Sem MTech (DCN) of GSSSIETW participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" from 4th to 8th Jan 2021 at GSSSIETW, Mysuru.

13. Supriya G, III Sem MTech (DCN) of GSSSIETW participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" from 4th to 8th Jan 2021 at GSSSIETW, Mysuru.

14. Zehra Mohammed Inayathulla, III Sem MTech (DCN) of GSSSIETW participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" from 4th to 8th Jan 2021 at GSSSIETW, Mysuru.

ABOUT THE DEPARTMENT:

The Department of Electronics and Communication Engineering at GSSSIETW was started in the year 2003. The ECE course is a four years Under-Graduate (UG) program in Bachelor of Engineering, affiliated to Visvesvaraya Technological University (VTU), Belgaum, Approved by All India Council for Technical Education (AICTE), New Delhi. The ECE UG program is accredited by NBA, New Delhi (Validity: 01.07.2017 - 30.06.2020). Initially the intake was 60 and later the strength was increased to 120 in the year 2011 and then strength was increased to 180 in 2019. The Department has 22 professionally qualified faculty members with various research specializations (Applied Electronics, VLSI Design and Embedded systems, Digital Electronics and Communication Systems, Computer Network Engineering, Industrial Electronics, Electronics, Image processing, Bio medical signal processing and instrumentation). The Department also comprises of experienced and skilled technical support staff. The student staff ratio has been maintained as per AICTE norms.

M.Tech in Digital Communication & Networking was started in the year 2013 with an intake of 18. The students are exposed to various professional activities like technical seminars, elective based mini projects resulting in good publications, industrial visits and participation in inter

collegiate workshops/conferences. The department conducts Technical Symposium's and National level Project Symposium's evaluated by Industry experts from Industry and Alumni. To bridge the gap between industry and institute the students are given technical training on industry requirements for quality internship and placement. The Department has produced three ranks, two in PG and 1 in UG from its inception. The students are placed in good companies like Infosys, VM-ware, IBM, Tech-Mahendra, Cognizant, Oracle, GE, Alcatel Lucent, Nokia-Seimens and Eudamonic and many more core companies.

The department has established training placements and research labs such as Embedded Lab, IOT Lab, Intel Lab and Wireless communication Lab with the latest technical tools for encouraging students and research scholars in updating their knowledge on the latest technology. The department has signed Memorandum of Unerstanding's with many companies such as Kaaya Tech Inc., Mysuru, Kaynes Technology, Mysuru, Advanced Electronic Systems, Bengaluru, Roboguru mysuru with an initiative to organize workshops, seminars, faculty development programs and internships. VTU recognized Research Center is established in the department which facilitates faculty members to pursue their PhD. About ten faculty members are pursuing their PhD in various domains such as Image Processing, Nano Technology, VLSI, Antennas, Wireless Sensor Networks and Computer Network Engineering, Communication systems.

VISION:

To foster professional level competence in all areas of Electronics and Communication Engineering and to benchmark the Department as a centre in the Country, for nurturing Women Engineers in the Country.

MISSION:
- To impart value based Technical education and training.
- To impart Theoretical Knowledge, Practical Knowledge and Entrepreneurship Skills.
- To develop Innovation and Creativity in Students.
- To conduct Application oriented research.
- To sensitize the Students regarding Social, Moral and Professional ethics.
- To provide sufficient Industry exposure to the Students.
- To provide special skills training to the Students to make them eligible for Placement.

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