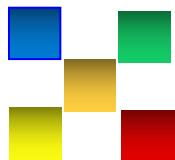
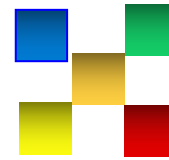


EASWARI ENGINEERING COLLEGE

[AUTONOMOUS]



TRANSEEDGE



Dr.M.Devaraju, HoD/ECE

Dear Readers,

For years, “Trans-edge” has been an enthusiastic publication of the activities by the Technocrats of the ECE department. It aims to enlighten the readers on various areas of technology that the faculty and students have been associated with. It also aims to throw light on the latest technological innovations that inspire the young generation to explore the field. One such technology is the “**Robot Birds**”. This invention is for the birds! It’s a robotic falcon. The robo-bird chases away real birds from the airport. It seems that birds are a hazard to planes as they’re taking off and landing. So it’s robo-bird to the rescue! These fake falcons are flown around the airport to scare off real birds.

Here’s how it works:

The robotic birds look like real falcons. They even flap their wings and fly just like them so real birds think the falcons are a predator. They get spooked and fly off and when the birds stay away, it makes the airport a safer place.

Faculty Editor

Ms.T.Gophika, Assistant Professor

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Apr 2021-May 2021

Volume 1, Issue 4

VISION AND MISSION

EASWARI ENGINEERING COLLEGE

Vision:

To accomplish and maintain international eminence and become a model institution for higher learning through dedicated development of minds, advancement of knowledge and professional application of skills to meet the global demands.

Mission:

M1:

Easwari Engineering College strives to set high standards of comprehensive education by developing the intellectual strength of students and guiding them towards technical advancement.

M2:

Synergise the efforts of various departments, inspire creativity and foster excellence and innovation in teaching and learning so as to realize our vision as a Premier Engineering Institution.

M3:

Nurture the development of mind, skill, attitude and core competence of students.

M4:

Attain leadership in planning and resource management so as to improve the quality and accessibility of technical education.

M5:

Produce graduates of International distinction, committed to Integrity, Professionalism and lifelong learning by widening their knowledge horizons in range and depth.

M6:

Enable students shine in their academic pursuits, making them sensitive to the needs of the progressive industrial world.

M7:

Organize a pluralistic and supportive environment that will stimulate scholars, students and staff of the highest calibre and contribute immensely to the process of Nation building through partnership with Community and Industry.

VISION AND MISSION

EASWARI ENGINEERING COLLEGE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Vision:

To prepare engineers, proficient to meet the needs of current technological advancements in the field of Electronics and Communication Engineering by establishing a learning environment consistent with industry standards in academics and research.

Mission:

M1:

To create a passion amongst students for contributing to research by providing industry oriented learning.

M2:

To impart in depth knowledge in principles and applications related to design and development of various systems for societal needs.

M3:

To build the skill sets, attitude and core competence of students and faculty by providing them with the opportunity to organize various technical events which will bring out their inherent talents.

M4:

To produce graduates with technical expertise, professional attitude and ethical values.

M5:

To instil creative thinking through innovative and team based methods which develops the entrepreneur skills, employability and research capability among professionals.

M6:

To inculcate in the graduates, the thirst for life-long learning and guide them to obtain thorough knowledge in their chosen interdisciplinary field.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Graduates will possess competency in mathematics, science and engineering fundamentals for solving Electronics and Communication engineering problems.

PEO2: Graduates will have core engineering knowledge necessary for employment in industries as well as higher studies and research.

PEO3: Graduates will attain organizing capability, entrepreneur skills and will be a team player in workplace with ethics.

PEO4: Graduates will perform effectively in multicultural and multidisciplinary environment and makes them ready for the corporate careers ahead.

PEO5: Graduates will have the ability to engage themselves in lifelong learning to achieve professional excellence that will make impact in the societal and human context.

PROGRAM SPECIFIC OUTCOMES

PSO1: Design and construct Electronic circuits and to Simulate the circuits with software tools which lead to the development of Electronic gadgets.

PSO2: Design and analyze various signal processing blocks for Image and Signal processing systems.

PSO3: Analyze various Networking and Communication areas and its impact in real time applications.

PSO4: Implement their professional skills and techniques in the integrated circuit design which are applicable to industrial and societal needs.

PROGRAM OUTCOMES

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/ Development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems:

Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society:

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

PO7: Environment and sustainability:

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

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance:

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

PO12:

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

EVENTS ORGANISED BY THE DEPARTMENT
INTERNATIONAL CONFERENCE
ON
MULTI DISCIPLINARY INNOVATIONS IN COMPUTING AND
COMMUNICATION (ICMICC'21)

DATE : 19.04.2021 & 20.04.2021

Department of Electronics and Communication Engineering, Easwari Engineering College (Autonomous), organized an “International Conference on Multi-Disciplinary Innovations in Computing and Communication” (Virtual Mode) ICMICC'21 on 19th and 20th April 2021.

Inauguration Session conducted on April 19th 2021 through Cisco Webex platform.

Dr.M.Devaraju,HoD/ECE,welcomed the gathering and delivered the welcome address. The overview of the conference was presented by Mrs. K.Abirami, Asst. Prof./ECE, highlighting the number of participants, their themes and the key note speakers.The Presidential address was delivered by Dr.R.S.Kumar,Principal,Easwari Engineering College. He highlighted the academic excellence and opportunities of the Institution with an emphasis on autonomous status.Sir also expressed his interest to have a collaboration with the International Universities of speakers through Semester Abroad Program. The Management Representative felicitated the gathering by sharing the importance of communication in this pandemic era. The introduction of Chief Guest was given by Mrs. R Hema , Asst.Prof./ECE. Consequently, the Chief Guest of the day,

Dr. Mia Torres Dela Cruz delivered the Inaugural Address. This was followed by Ms.T.Gophika, Asst.Prof./ECE,gave an introduction about our esteemed Guest of Honour.Dr.Korhan Cengiz, the Guest of Honour,delivered the special Address by giving an Introduction to Novel Wireless Sensor Networks Technologies with emphasis on different routing protocols for efficient management. Then the Conference proceedings was released. The session was concluded with Dr.N Dharini,Asst.Prof./ ECE by delivering the Vote of Thanks.

We thank our Management, Respected Chairman Sir, Co-Chairman Sir, for giving us this opportunity.We thank our Principal and HOD sir for their continuous support and motivation for conducting this conference.

CONFERENCE BROCHURE:

<p>CALL FOR PAPERS Authors are invited to contribute in the conference by submitting the articles in the following areas but not restricted to:</p> <p>TRACK 1-COMPUTING AND NETWORKING</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Artificial Intelligence</td><td>Wireless networks</td></tr> <tr><td>Internet of Things</td><td>Adhoc networks</td></tr> <tr><td>Machine Learning</td><td>Smart Networking</td></tr> <tr><td>Distributed Computing</td><td>Computer and Communication Networks</td></tr> <tr><td>Pervasive Computing</td><td>MEMO networks</td></tr> <tr><td>Mobile Computing</td><td>Cognitive radio networks</td></tr> <tr><td>Information and Data security</td><td>Wireless Sensor Networks</td></tr> <tr><td>Green Computing</td><td>Network Security</td></tr> </table> <p>TRACK 2-COMMUNICATION,SIGNAL AND IMAGE PROCESSING</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Optical Communication and Photonics</td><td>Bio signal processing</td></tr> <tr><td>Massive MIMO Communication</td><td>Audio/Speech processing</td></tr> <tr><td>RF and Microwave Circuits and devices</td><td>Statistical signal processing</td></tr> <tr><td>Mobile and Cellular Communication</td><td>Medical Image Processing</td></tr> <tr><td>Wireless Communication</td><td>Digital Image Processing</td></tr> <tr><td>Multimedia Communication</td><td>Video Processing</td></tr> <tr><td>Antennas and wave propagation</td><td>Deep Learning</td></tr> <tr><td>Satellite Communication</td><td>Natural language Processing</td></tr> </table>	Artificial Intelligence	Wireless networks	Internet of Things	Adhoc networks	Machine Learning	Smart Networking	Distributed Computing	Computer and Communication Networks	Pervasive Computing	MEMO networks	Mobile Computing	Cognitive radio networks	Information and Data security	Wireless Sensor Networks	Green Computing	Network Security	Optical Communication and Photonics	Bio signal processing	Massive MIMO Communication	Audio/Speech processing	RF and Microwave Circuits and devices	Statistical signal processing	Mobile and Cellular Communication	Medical Image Processing	Wireless Communication	Digital Image Processing	Multimedia Communication	Video Processing	Antennas and wave propagation	Deep Learning	Satellite Communication	Natural language Processing	<p>IMPORTANT DATES</p> <p>LAST DATE FOR PAPER SUBMISSION : 09-04-2021 NOTIFICATION OF ACCEPTANCE : 12-04-2021 CAMERA READY PAPER SUBMISSION AND REGISTRATION : 15-04-2021</p> <p>SUBMISSION OF PAPERS Prospective authors are encouraged to submit full paper for review. Only original papers which have not been published or submitted for publication elsewhere will be considered. The manuscript must follow IEEE two column format https://www.ieee.org/conferences/publishing/templates.html. The maximum manuscript length is five A4 pages.</p> <p>PAPER SUBMISSION LINK https://easwaricollege.org/conferences/2021/icmicc21</p> <p>All selected and presented papers will be published in conference e-proceedings and e-participation certificates will be provided. The selected and extended papers will be published in Scopus Indexed Journal based on the recommendation of reviewers, Journal's editorial board and authors' interest with additional publication charges as applicable.</p> <p>REGISTRATION FEES</p> <p>INDIAN DELEGATES : 300 INR FOREIGN DELEGATES : 10 USD</p> <p>FOR DETAILS CONTACT</p> <p>Mobile: 900357244 9894480651 Mail : icmicc21@gmail.com</p>	 <p style="text-align: center;">EASWARI ENGINEERING COLLEGE <small>AN ISO 9001:2015 CERTIFIED ORGANIZATION</small> ESTABLISHED IN 1983</p> <p style="text-align: center;"> ICMICC'21 INTERNATIONAL CONFERENCE ON MULTI DISCIPLINARY INNOVATIONS IN COMPUTING AND COMMUNICATION (VIRTUAL CONFERENCE) (19-04-2021 & 20-04-2021) Organized By DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Website: www.easwaricollege.ac.in</p>
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Satellite Communication	Natural language Processing																																	

ABOUT THE COLLEGE

EASWARI ENGINEERING COLLEGE (EEC) a division of SRM Group of Institutions, led by visionary leaders, the founder Chairman **Dr. T. R. Paarvenderar** and the Chairman **Dr. R. Shivakumar**. The College was established in the year 1996. The college was granted Autonomy by UGC in 2019. It offers eleven UG and six PG programmes including Engineering, Technology and Management. All UG and PG programmes have secured Permanent Affiliation (except newly commenced). The institution is accredited by NAAC with 'A' grade, Accredited by NBA, New Delhi and ISO 9001:2015 certified. Easwari Engineering College has secured **200th rank in National Institutional Ranking Framework (NIRF)**, Ministry of Human Resource Development, Govt. of India 2019 ranking results and 21st among 151 colleges participated in Tamil Nadu Engineering Colleges. The institution is aligned with Central Government initiatives like **Digital India, Skill India, Ummid Jyoti, Swachh Bharat, Abhiyan, Pradhan Mantri Jan Dhan Yojana**. The institution has got **5th position in Swachh Campus Ranking** in Higher Educational Institutions under Non-Residential College, **AICTE by MHRD**. The institution is recognized as Mentor Institution under AICTE Margadarshan Scheme. The Institute is recognized by Department of Scientific and Industrial Research Organization (DSIRO) and received funding from various Government Agencies for sponsored research including FIST from DST.

ABOUT THE DEPARTMENT

In order to meet the wide range of challenging and very rapidly growing global demands for professional, the **Department of Electronics and Communication Engineering** was established since inception of the college in the year 1996. The department has been sanctioned with an intake of 180 students in UG and an intake of 18 students in PG course (M.E. Communication Systems). The department has secured **permanent affiliation from Anna University** and is accredited by NBA. In pursuit of excellence, the department is recognized as nodal centre for research by Anna

University to pursue Ph.D. in the areas relevant to Electronics and Communication. The Department is **Platinum graded by AICTE-CB Survey of Industry-Linked Technical Institutes, 2019**. The Department received **Teaching Awards in Engineering from Staffordshire University, UK & Education matters**.

ABOUT THE CONFERENCE

The network, computing & communication technologies and its integration into every sphere of contemporary life has opened doors to many research areas which need to be explored. Moving ahead and far beyond traditional communication standards and methods, the common language of global information sources and communication has broadened the spectrum of opportunistic innovations. The Internationalization of Research and Development in the field of Electronics, Information and Communication Technologies has been partial and hazy. This Conference **ICMICC 2021** will provide a global platform for researchers to review the state of art and to present their exemplary innovative works. The Conference **ICMICC 2021** will include program of technical papers accompanied by key note presentations.

CHIEF PATRON

Dr. T. R. Paarvenderar, Founder Chairman, SRM Group of Institutions
Dr. R. Shivakumar, Chairman, SRM Group (Ramapuram & Trichy)
Mr. S. Naranjan, Co-Chairman, SRM Group (Ramapuram & Trichy)
Dr. N. Selvarajan, Management Representative (MR), SRM Ramapuram Campus

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Dr. R. S. Kumar, Principal, EEC (Aulimnagar)

CONVENER

Dr. M. Devaraja, Professor & Head / ECE

CO-ORDINATORS

Dr. N. Dharmaji, Assistant Professor, ECE
Ms. T. Gopalka, Assistant Professor, ECE
Mrs. K. Abirani, Assistant Professor (Sr. Gr.), ECE
Mrs. R. Hema, Assistant Professor, ECE

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Dr. S. Venkatesan, Associate Professor, Department of Information Technology, IIT Allahabad
Dr. R. Shivakar, Associate Professor, Department of Electrical, Electronics & Communication, NITTR Chennai
Dr. H. Doraswamy, Professor & Principal, Vikramsa Engineering College
Dr. Sabitha Ramakrishnan, Associate Professor, Dept. of Instrumentation Engineering, MIT campus, Anna University, Chennai
Dr. M. Ramakrishnan, Professor & Head, School of Information Technology, Department of Computer Applications, Madurai Kamaraj University
Dr. S. Dhanalakshmi, Associate Professor, Department of Electronics & Communication Engineering, SRMIST, Kallakudi
Dr. S. Asha, Senior Associate Professor, Department of Computer Science & Engineering, VIT Chennai
Dr. D. Vyniki, Associate Professor, School of Electronics Engineering, VIT Chennai

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Dr. D. Vignesh	Mr. K. P. Santosh Kumar
Dr. V. S. Anani	Dr. S. Vanaja
Mr. V. Divyesh	

CONFERENCE POSTER:

EASWARI ENGINEERING COLLEGE
 ANNA UNIVERSITY
 RAMAPUDAM, CHENNAI

ICMICC'21
 International conference on
 MULTI-DISCIPLINARY INNOVATIONS
 IN COMPUTING AND COMMUNICATION

19th & 20th APRIL, 2021
MONDAY, TUESDAY

CHIEF GUEST & KEYNOTE ADDRESS
Dr. Mia Torres - Dela Cruz
 CEO, Infinite Dynamic Minds, Philippines

KEYNOTE ADDRESS
Dr. Tata Sudhakar
 Group Head, Ocean Electronics Group, NIOT

KEYNOTE ADDRESS
Dr. S. Venkatesan
 IIT Allahabad

KEYNOTE ADDRESS
Dr. Soumi Dutta
 Institute of Engineering & Management (IEM)

GUEST OF HONOUR
Dr. Korhan Cengiz
 Trakya University, Turkey

INAUGURAL SESSION:





RELEASE OF CONFERENCE PROCEEDING:



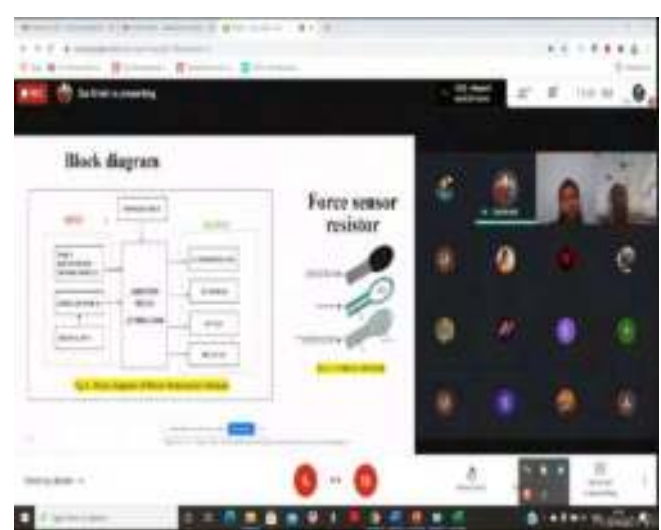
PANEL-I DETAILS:

Session	: Communication
Session Timings	: 09:00 AM – 1:00 PM (19/04/2021)
Keynote Speaker	: Dr.Mia Torres Dela Cruz , CEO, Infinite Dynamic Minds, International Research and Academic Consultations, Philippines
Chairperson (External)	: Dr.Vydeki , Associate Professor, VIT, Chennai
Chairperson (Internal)	: Dr.D.Jessintha , Associate Professor, Department of Electronics and Communication Engineering, Easwari Engineering College, Ramapuram, Chennai.
Overall session Co-ordinator	: Mrs.R.Hema , Assistant Professor, Easwari Engineering College
Session In-charges	: Mrs.S.Uma Maheswari , Assistant Professor, Mrs.A.T.Madhavi , Assistant Professor, Department of Electronics and Communication Engineering, Easwari Engineering College

Session -1 Started with key note speech by Dr.Mia Torres Dela Cruz, CEO, Infinite Dynamic Minds, International Research and Academic Consultations, Philippines. Nearly 100 members including participants, students and Faculty members participated in the virtual meeting ID <https://meet.google.com/ryp-uqqm-wss>.

Dr.Mia Torres Dela Cruz has given elaborate speech on Digital inclusion, digital

equity and usage of Internet all over the world. She has noted that India is the pioneer in the usage of Internet in the world. India stands second largest smart phone user. She stressed that investment of India companies like IBM, Reliance in digital ecosystem is about 10Billion US Dollars, July 2020. 15 papers were presented in this session-1 under Communication domain. External session Chair,Dr.Vydeki, Associate Professor, VIT, Chennai and Internal session Chair, Dr.D.Jessintha,Associate Professor, Department of ECE, Easwari Engineering College started analyzing the presenters along with session Co-ordinators. Students participated from various Engineering Colleges like Mepco Schlenk Engineering College-Sivakasi, Bannari Amman Institute of Technology-Sathyamangalam, Sriram College of Engineering-Chennai, Rajalakshmi College of Engineering-Chennai, Panimalar Institute of technology-Chennai, Vels-Institute of Science and Technology-Chennai, Kamala Institute of Technology and Science-Telungana, RVR &JC College of Engineering. In questionnaire session, Chair-persons suggested valuable suggestions for the improvement and betterment of the project/work. At the end of the session, organizers thanked the Chair-Persons for sharing their treasured time to make the session in success.



PANEL-II DETAILS:

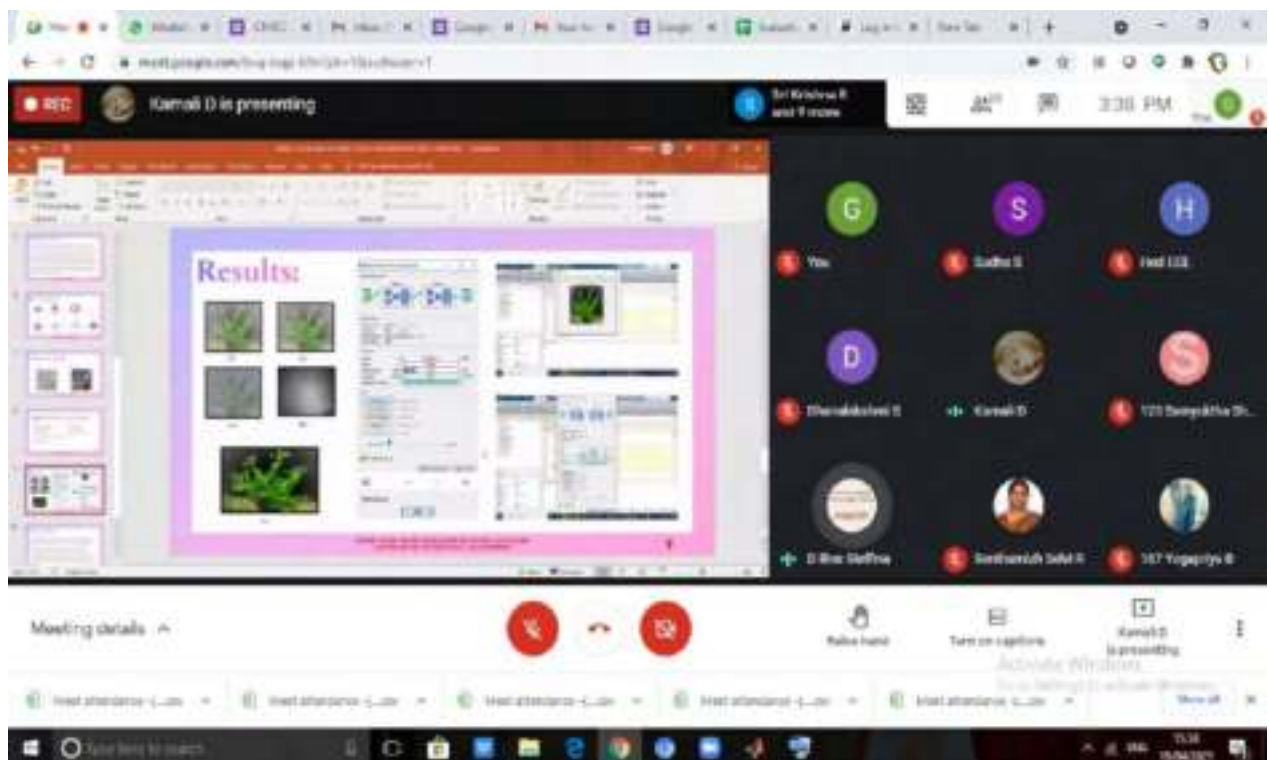
Session	: Image and Signal Processing
Session Timings	: 01:00 PM – 04:00 PM (19/04/2021)
Keynote Speaker	: Dr.Tata Sudhakar Group Head Ocean Electronics, Scientist G, National Institute of Ocean Technology, Chennai.
Chairperson (External)	: Dr. S. Dhanalakshmi , Associate Professor, Department of Electronics and Communication Engineering, SRM Institute of science and technology, Kattankulathur Campus, Chennai.
Chairperson (Internal)	: Dr.S.Sudha , Professor, Department of Electronics and Communication Engineering, Easwari Engineering College, Ramapuram, Chennai.
Overall session Co-ordinator	: Ms.T.Gophika , Assistant Professor, Department of Electronics and Communication Engineering, Easwari Engineering College
Session In-charges	: Dr. R.Senthamizh Selvi , Associate Professor, Dr. O.Vignesh , Assistant Professor (Sr.G), Department of Electronics and Communication Engineering, Easwari Engineering College

The Department of Electronics and Communication Engineering of Easwari Engineering College organized the International Conference on Multi-Disciplinary Innovations in Computing and Communication (ICMICC'21) on 19.04.2021-20.04.2021. The Image and Signal Processing session was commenced on Day one, second session (01:00 PM-04:00 PM).First of all, the session members thanked the Management,Principal,HoD of Easwari Engineering College for the support and encouragement of conducting this kind of international-level virtual conference. The session started with welcoming the gatherings, keynote speaker, Chairpersons and participants.

The keynote speaker,Dr.Tata Sudhakar, Group Head in Ocean Electronics, NIOT Chennai have over 37 years experience in Oceanographic research area. He contributed many research programs both at the National and International levels like the Commonwealth Science Council Program (CORE) for Caribbean islands, 5th Indian Expedition to Antarctica, a key member of the team responsible for the establishment of the National Data Buoy Programme for monitoring of oceans and establishment, first calibration and validation system for ISRO Ocean satellite at Lakshadweep Islands. He presented the overall working process and current project in NIOT Chennai. He explained the various opportunities to do research in NIOT with funding support. All the participants were attended actively, and the keynote session's feedback is good.

The Chairpersons of the session, Dr.S.Dhanalakshmi,Associate Professor,Department of Electronics and Communication Engineering, SRM Institute of Science & Technology, Kattankulathur, and Dr.S.Sudha, Professor, Department of Electronics and Communication Engineering Easwari Engineering College initiated the session.The presentation was started after a brief introduction about the keynote speaker and

chairpersons. Nearly 90+ students, research scholars and faculty members have attended the session. In total 14 papers were presented and evaluated. Valuable comments and suggestions were given by both chairpersons to all the presenters. All the presenters answered their Q&A. Finally, the session was completed successfully within the time period and smooth manner. The session handling team thanked keynote speaker, chairpersons and all the participants.



PANEL-III DETAILS:

Session	: Computing
Session Timings	: 09:00 PM – 01:00 PM (20/04/2021)
Keynote Speaker	: Dr.Sonali Agarwal , Associate Professor, IIIT Allahabad.
Chairperson (External)	: Dr. Jeevaa Katiravan ,Professor and Head , Department of IT, Velammal Engineering College.
Chairperson (Internal)	: Dr.G.Babu ,Associate Professor, Department of Bio Medical Engineering , Easwari Engineering college, Ramapuram, Chennai.
Overall session Co-ordinator	: Dr.N.Dharini , Assistant Professor,Easwari Engineering College
Session In-charges	: Dr.D.C.Diana , Associate Professor, Mr.K.P.Senthil Kumar ,Assistant Professor, Department of Electronics and Communication Engineering, Easwari Engineering College

On the second day of International Conference on Multidisciplinary Innovations in Computing and Communication under the session of Computing, the Key note speech was delivered by Dr.Sonali Agarwal, Associate Professor, IIIT Allahabad.She delivered the keynote speech regarding” how big data analytics has been used in current Covid 19 situation”.The External session chair Dr.Jeevaa Katiravan,Professor and Head,

Department of IT Velammal Engineering College and Internal session chair Dr.G.Babu Associate Professor, Department of Bio Medical Engineering , Easwari Engineering college evaluated the papers presented during the entire session.16 papers has been presented in the Computing session from all the participants from various colleges in and around the country.

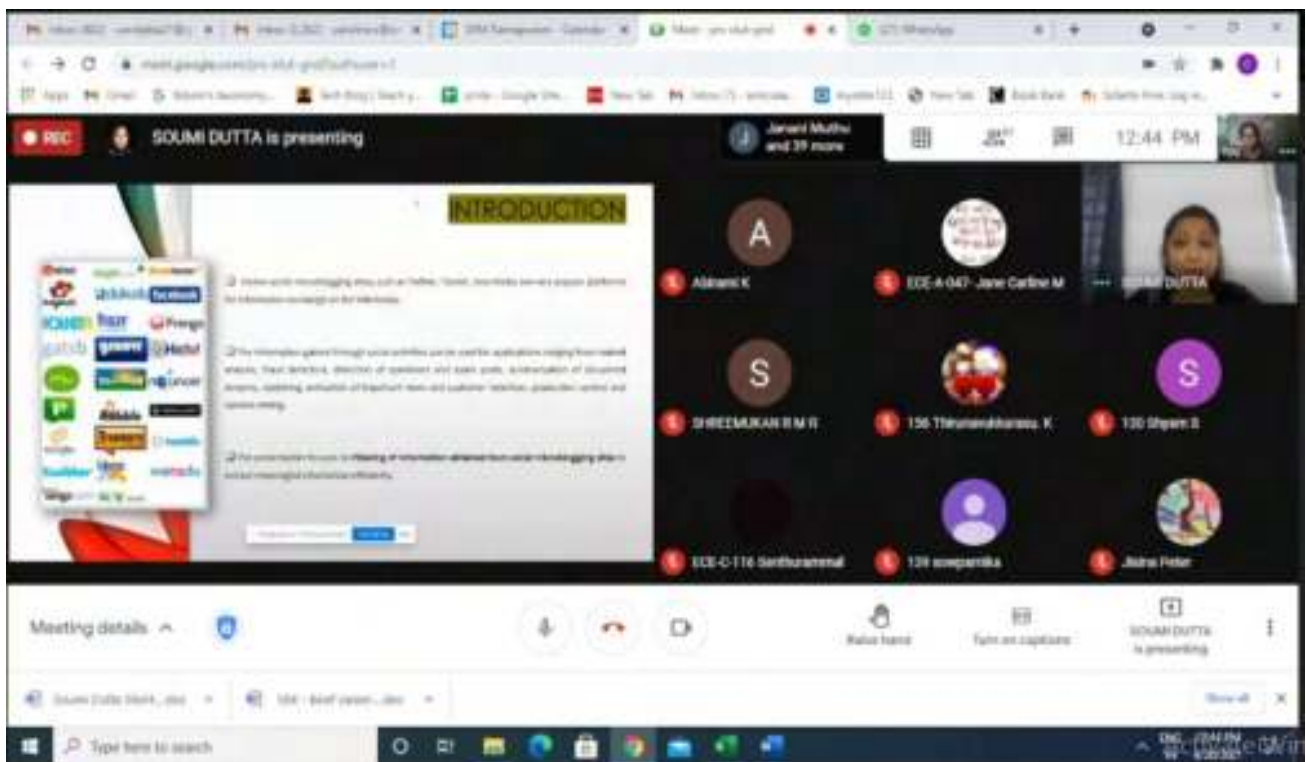


PANEL-IV DETAILS:

Session	: Networking
Session Timings	: 01:00 PM – 04:00 PM (20/04/2021)
Keynote Speaker	: Dr.Soumi Dutta , Institute of Engineering & Management (IEM),Kolkatta.
Chairperson (External)	: Dr. Sabitha Ramakrishnan ,Associate Professor, Department of Instrumentation Engineering, MIT
Chairperson (Internal)	: Dr.K.Rahimunnisa , Associate Professor, Department of Electronics and Communication Engineering , Easwari Engineering college, Ramapuram, Chennai.
Overall session Co-ordinator	: Mrs.K.Abirami , Assistant Professor, Easwari Engineering College
Session In-charges	: Mrs.S.Caroline Jebakumari , Assistant Professor, Mrs.S.Suruthi ,Assistant Professor, Department of Electronics and Communication Engineering, Easwari Engineering College

On the second day of International Conference on Multidisciplinary Innovations in Computing and Communication under the session of Networking, the Key note speech was delivered by Dr.Soumi Dutta, Institute of Engineering & Management (IEM),Kolkatta.She delivered the keynote speech focusing Data Mining based Fake news detection in Social Network. The External session chair Dr. Sabitha Ramakrishnan,

Associate Professor, Dept of Instrumentation Engineering, MIT and Internal session chair Dr.K.Rahimunnisa, Associate Professor, Department of Electronics and Communication Engineering, Easwari Engineering college evaluated the papers presented during the entire session. 18 papers have been presented in the Networking session from all the participants from various colleges in and around the country.



Feedback: The overall feedback received from each session is excellent. All the participants expected such kind of conference in the forthcoming years also.

INTERNSHIP ATTENDED BY STUDENT

S.NO.	CLASS	NAME OF THE STUDENT /REG NO	NAME OF THE INDUSTRY / ORGANIZATION	PERIOD OF INTERNSHIP	DURATION
1.	II C	V.Sandhiya-19106124	Mycaptain	1/03/2021-24/04/2021	1 month
2.	II C	K R Samyuktha Shrruthi 19106123	Uniq Technologies	26/03/2021 - 04/04/2021	10
3.	II C	Sona Shiva 19106136	Uniq Technologies	26/03/2021 - 04/04/2021	10
4.	II C	B.Yogapriya 19106167	Uniq Technologies	26/03/2021 - 04/04/2021	10 days
5.	II C	D.M.Shruthupriya 19106143	Uniq Technologies	26/03/2021 - 04/04/2021	10 days
6.	II C	S.P.Shakthi 19106125	Uniq Technologies	26/03/2021 - 04/04/2021	10 days
7.	II C	V.A.Shakthisneghaa 19106120	Uniq Technologies	26/03/2021 - 04/04/2021	10 days
8.	II C	R.Swathy 19106154	Uniq Technologies	26/03/2021 - 04/04/2021	10 days
9.	III A	S.Dharani 310618106029	The Sparks Foundation	28/02/2021 - 10/04/2021	1 month
10.	III A	S.Dharani 310618106029	CcxNews	19/03/2021 - 20/04/2021	1 month
11.	III C	M.Shivaani 310618106130	Codespeedy Technologies Pvt Ltd, West Bengal	03/03/2021 - 03/04/2021	1 month
12.	III C	M.Shivaani 310618106130	WallMag, Jaipur	22/03/2021 - 22/06/2021	3 months
13.	III A	K.Aiswarya31061810 6006	Hello ML	01/02/2021 - 04/04/2021	2 months
14.	III A	S.Balaji 310618106018	Hello ML	01/02/2021 - 04/04/2021	2 months

15.	III A	L.Archana 310618106013	Healing Dove Foundation	26/03/2021 - 23/04/2021	1 month
16.	III C	C.Madhumathi 310618106072	GRIP at the Sparks Foundation	11/03/2021 - 09/04/2021	1 month
17.	III C	S.Sumathi 310618106073	Pad Squad	12/03/2021 - 09/04/2021	1 month
18.	III C	S.Sumathi 310618106073	Slate and Pencil	05/04/2021 - 05/08/2021	4months
19.	III B	M.Jesrina 310618106057	NLC India Limited	23/03/2021 - 12/04/2021	12 days
20.	III B	M.Keerthana 310618106063	NLC India Limited	23/03/2021 - 12/04/2021	12 days
21.	III B	V.Maithreyi 310618106076	NLC India Limited	23/03/2021 - 12/04/2021	12 days
22.	III B	D.Nithyashree 310618106093	NLC India Limited	23/03/2021 - 12/04/2021	12 days
23.	III B	S.K.Poojitha 310618106095	NLC India Limited	23/03/2021 - 12/04/2021	12 days
24.	III B	S.Preethi 310618106100	NLC India Limited	23/03/2021 - 12/04/2021	12 days
25.	III C	S.Santhoshini 310618106125	Adiuvo Dignostics	07/04/2021 - 06/05/2021	30 days
26.	III B	D.Naveenkumar 310618106187	Mechatronics Pvt Limited	01/04/2021 - 06/04/2021	6 days
27.	III C	M.Shailesh 310618106129	Code Minds	16/03/2021 - 16/04/2021	1 month
28.	IV B	Lasya Ippagunta 310617106066	Cloud SEK	02/11/2020-02/05/2021	6 months
29.	IV C	R.Sathvikaa 310617106107	WorksBot Applications	12/03/2021 - 12/06/2021	3 months

30.	IV C	G.Venkatesan 310617106146	WorksBot Applications	12/03/2021 - 12/06/2021	3 months
31.	IV C	S.Supriya 310617106135	L and T Technology Services	27/10/2020-27/04/2021	6 months

PROFESSIONAL SOCIETY ACTIVITY

S.NO	NAME OF THE PROFESSIONAL SOCIETY	DATE	ACTIVITY	NAME OF THE RESOURCE PERSON AND DESIGNATION
1	IETE	15.5.2021	NATIONAL LEVEL 24 HOUR HACKATHON “EASE THE ERROR 2.0”	IETE Chennai Centre in association with ISF of Sri Venkateswara College of Engineering Jeppiaar Institute of Technology, Veltech Multitech Dr.Rangarajan, r.Sakunthala Engineering College, SRM Easwari Engineering College, Panimalar Institute of Technology

Faculty as Participants Faculty Development & Training Activities &

SITPs

Sl. No.	Name of the Faculty	Date	Topic	Venue
1.	Dr.O.Vignesh	27.03.2021 – 10.04.2021	RISC-V Implementation RTL2GDS	Electronics & ICT Academy Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India Indian Institute of Technology Guwahati
2.	Mr.V.Dinesh	29.03.2021 – 02.04.2021	“Electric Vehicle Design using MATLAB”	Pantech Pro Labs India Pvt Ltd
3.	Mr.V.Dinesh	08.04.2021 – 14.04.2021	AICTE-ISTE Sponsored “Industrial Application of MATLAB”	Ojaswini Institute of Management and Technology, Damoh, Madhya Pradesh
4.	Mrs.P.Bini Palas	17.04.2021	Antennas for Next Gen	Tesla Minds

		- 29.04.2021	Consumer Electronics	
5.	Dr. Resmi R Nair	19.04.2021 - 29.04.2021	Two weeks International Workshop on Data Science	Department of IT, Easwari Engineering College
6.	Mr.K.P.Senthil kumar	19.04.2021 - 23.04.2021	Blockchain Technology and Cryptocurrency	Vardhaman college of Engineering Hyderabad
7.	Ms.T.Gophika	20.04.2021 - 26.04.2021	AICTE-ISTE sponsored Recent "Trends in EV Technologies"	EEE Dept, Easwari Engineering College
8.	Mr.R.Praveen Kumar	26.04.2021 - 30.04.2021	Antenna and Wireless Communication Technologies for IoT	NITTTR - Chandigarh
9.	Mr.B.Arivuselvam	26.04.2021 - 01.05.2021	"Applied Soft Computing and Vision Machine Techniques (Series III)".	Dr. MGR Educational and Research Institute, Maduravoyal, Chennai
10.	Dr.D.Jessintha	29.04.2021 - 30.04.2021	Online -Training on Full custom and Semi-custom Design Flow in VLSI using Cadence Tools	B S Abdur Rahman Crescent Institute of Science Technology, Vandalur, Chennai and Entuple Technologies, Bangalore
11.	Mr.K.P.Senthil kumar	10.04.2021	Learning Outcome based Education - Revised Bloom's Taxonomy	Easwari engineering College
12.	Mr.R.Praveen Kumar	10.04.2021	Learning Outcome based Education - Revised Bloom's Taxonomy	Easwari engineering College
13.	Dr.R.Senthamizh Selvi	10.04.2021	Learning Outcome based Education - Revised Bloom's Taxonomy	Easwari engineering College
14.	Dr.S.Saranya	21.04.2021	Prototype/ProcessDesign and Development-Prototyping	Dr.N.G.P Institute of Technology
15.	Mr. M. Kiran kumar	21.04.2021	Prototype/ProcessDesign and Development-Prototyping	Dr.N.G.P Institute of Technology
16.	Dr.R.Senthamizh Selvi	24.04.2021	How to write Course Outcomes	Easwari engineering College
17.	Mr.K.P.Senthil kumar	24.04.2021	How to write Course Outcomes	Easwari engineering College
18.	Dr.R.Senthamizh Selvi	26.04.2021	"Why intellectual Property is important in Academia?"	Ministry Of Education's Innovation cell

19.	Dr.S.Saranya	27.04.2021	Applications of Matlab	Mohamed Sathak Engineering College
20.	Mr.M. Kirankumar	27.04.2021	Applications of Matlab	Mohamed Sathak Engineering College
21.	Mrs.S.Uma Maheswari	03.05.2021 - 08.05.2021	mm wave antenna Design and teting for Biomedical applications	AICTE sponsored , Rajalakshmi Institute of Technology
22.	Mrs.S.Uma Maheswari	10.05.2021 - 21.05.2021	International FDP on Trends and Challenges in Machine learning and Deep Learning	Dept of IT and AI & DS, Easwari Engineering College
23.	Mrs.S.Uma Maheswari	24.05.2021 - 04.06.2021	MATLAB and Lab VIEW programming for Engineering Applications	NITTTR, Chennai
24.	Dr.S.Vanaja	22-5-2021	Women Laws in India and Domestic violence	Easwari Engineering College
25.	Dr.S.Vanaja	15-5-2021 & 22-5-2021	RESEARCH CHALLENGES IN FREE SPACE OPTICAL COMMUNICATIONS	GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT,BENG ALURU
26.	Dr.S.Vanaja	03.05.2021 - 08.05.2021	mm wave antenna Design and teting for Biomedical applications	AICTE sponsored , Rajalakshmi Institute of Technology
27.	Dr.S.Vanaja	17.05.2021 - 21.05.2021	Innovative Research Prospects in communication, Power Systems and Machine Learning Techniques	Jeppiaar Institute of Technology
28.	Dr.S.Vanaja	24.05.2021 - 28.05.2021	Advanced Electromagnetics and Applications	Sri Sivasubramaniya Nadar College of Engineering
29.	Dr. Dharini N	12.05.21 - 18.05.21	IoT and its Applications-Phase III	Annamalai University
30.	Dr. Dharini N	03.05.21 - 07.05.21	Master Class on Machine Learning	Pantech Pro Labs India Pvt Ltd
31.	Dr. Dharini N	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
32.	Dr. Dharini N	26.05.21 - 27.05.21	ICT Tools in Teaching and Skill Development	SS Polytechnic College
33.	Dr. Resmi R Nair	10.05.2021- 21.05.2021	Trends and Challenges in Machine Learning & Deep Learning	Easwari Engineering College

34.	Dr. Resmi R Nair	24.05.2021 to 29.05.2021	Blockchain with cyber security	Easwari Engineering College
35.	Dr. Resmi R Nair	04.05.2021 to 18.05.2021	Trends and Challenges in Power Converters and Control	Anna University
36.	Dr. Resmi R Nair	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
37.	Mr.K.P.Senthilkumar	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
38.	Mr.K.P.Senthilkumar	30.04.21 & 01.05.2021	National Workshop on Artificial Intelligence	Pantech e learning
39.	Mr.K.P.Senthilkumar	07.05.21 & 08.05.2021	National Workshop on Robotics Vision	Pantech e learning
40.	Mr.K.P.Senthilkumar	15.05.21	Webinar on Next Gen Oppurtunities	Easwari Engineering College
41.	Mrs.S. Caroline Jebakumari	17.05.2021 - 21.05.2021	“Recent Technologies for Mobile Broadband Transformation”	NITTTR, Chandigarh
42.	Mrs.S. Caroline Jebakumari	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
43.	Mrs.P. Bini Palas	14.05.2021	Different methods to Characterize/Test your Antenna	Tesla Minds
44.	Ms.Gophika.T	03.05.2021- 08.05.2021	AICTE sponsored STTP on FPGA based Digital System Design with HDL	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College
45.	Ms.Gophika.T	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
46.	Mr.Arivu Selvam.B	04.05.2021 to 18.05.2021	Trends and Challenges in Power Converters and Control	Anna University
47.	Mr.Arivu Selvam.B	10.05.2021- 21.05.2021	Trends and Challenges in Machine Learning & Deep Learning	Easwari Engineering College
48.	Mr.Arivu Selvam.B	27/05/2021 to 28/05/2021	Image Dehazing	MSAJCE,Chennai
49.	Mrs.S.Suruthi	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
50.	Mrs.S.Suruthi	30.04.21 & 01.05.2021	National level workshop on Artificial Intelligence	Pantech e- Learning

51.	Mrs.S. Suruthi	10.05.21 to 21.5.21	Trends and challenges in ML and deep learning	Dept of IT, Easwari Engineering College
52.	Mrs.Bindu babu	24.5.21 to 29.5.21	Blockchain with cyber security	Easwari Engineering College
53.	Mrs.Bindu babu	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
54.	Dr.R.Senthamizh Selvi	30.04.21 & 01.05.2021	National level workshop on Artificial Intelligence	Pantech e- Learning
55.	Dr.R.Senthamizh Selvi	22.05.21	Women Laws in India and Domestic violence	Easwari Engineering College
56.	Dr.R.Senthamizh Selvi	21.05.2021	Introduction to MATLABT	Mathworks
57.	Dr.R.Senthamizh Selvi	28.05.2021	Machine Learning	Skill Safari
58.	Dr.R.Senthamizh Selvi	03.05.2021- 08.05.2021	AICTE sponsored STTP on FPGA based Digital System Design with HDL	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College

STUDENT CORNER

“We will not stop until every car on the road is electric”

ELON MUSK

THE NEXT GEN TECHNOLOGY

ELECTRIC VEHICLES



The term “ELECTRIC VEHICLE” is not a neo-modern word pertaining only to the modern world as we can trace back its antiquity to the 1830s when electric motors emerged to power Lilliputian cars.

Though electric cars didn't gain eminence at that time because of their inability to match the gasoline-powered vehicle, electric locomotive technology rose to prominence in the 19th century.

The development of electric car gained momentum in the 1980s when power-MOSFETs and Li-ion batteries were invented as a form of secondary batteries.

These Lithium-ion polymer batteries will last up to thousands of charging cycles when used to power battery EVs.

EVs are eco-friendly and cost-efficient forms of transportation.

The rising concern of the environmentalists is the depletion of rare earth metals and some other metals needed for the manufacturing of batteries used in Electric vehicles.

An alternative source for the batteries like Lithium-ion must be used to mitigate this limitation in the present batteries used in EVs.

Many companies are planning to move fully electric in terms of car manufacturing like Hyundai etc., by the 2030s.

More charging stations must be built across the nation to manage traffic congestion.



INTERVEHICLE COMMUNICATION

Vehicle-to-vehicle (V2V) communication enables vehicles to exchange information about their speed and location wirelessly.

The technology behind V2V communication allows vehicles to transmit and receive messages, creating a wholesome awareness of the vehicles equipped with the software in the vicinity.

Vehicles equipped with appropriate software can utilize the messages from nearby vehicles to determine potential crash threats at once they're created.

The technology can employ a combination of visual, tactile, and audible alerts to warn drivers. These alerts gives the ability to take action allowing drivers to avoid crashes.

When this V2V communication comes embedded with electric vehicles it could create a massive impact on the transportation industry.



This V2V communication technology in electric cars could save thousands of lives that we lose every year due to road accidents. Also, several lakhs of road crashes can be prevented.

One major limitation - the cost needed for implementation of this technology can also be mitigated using Dedicated Short Range Communication with GPS.



DSRC + GPS = LOW COST V2V COMMUNICATION SYSTEM

DSRC operates in the 5.9 GHz bandwidth and thus providing direct, low latency information exchange between these EVs and the infrastructure.

DSRC provides a highly secure communication channel. These vehicles check the authenticity of the received messages and those messages won't be linked to the vehicle protecting the privacy of the driver.

Every vehicle broadcasts its location, heading and speed in a highly secure and anonymous manner.

All the other electric vehicles in the vicinity will receive the message and estimate the threat imposed by the transmitting vehicle.

This allows a perception, detection and assessment of the impending danger before it can be visually noticed by us.

Therefore, the future is electric vehicle transportation with V2V communication.

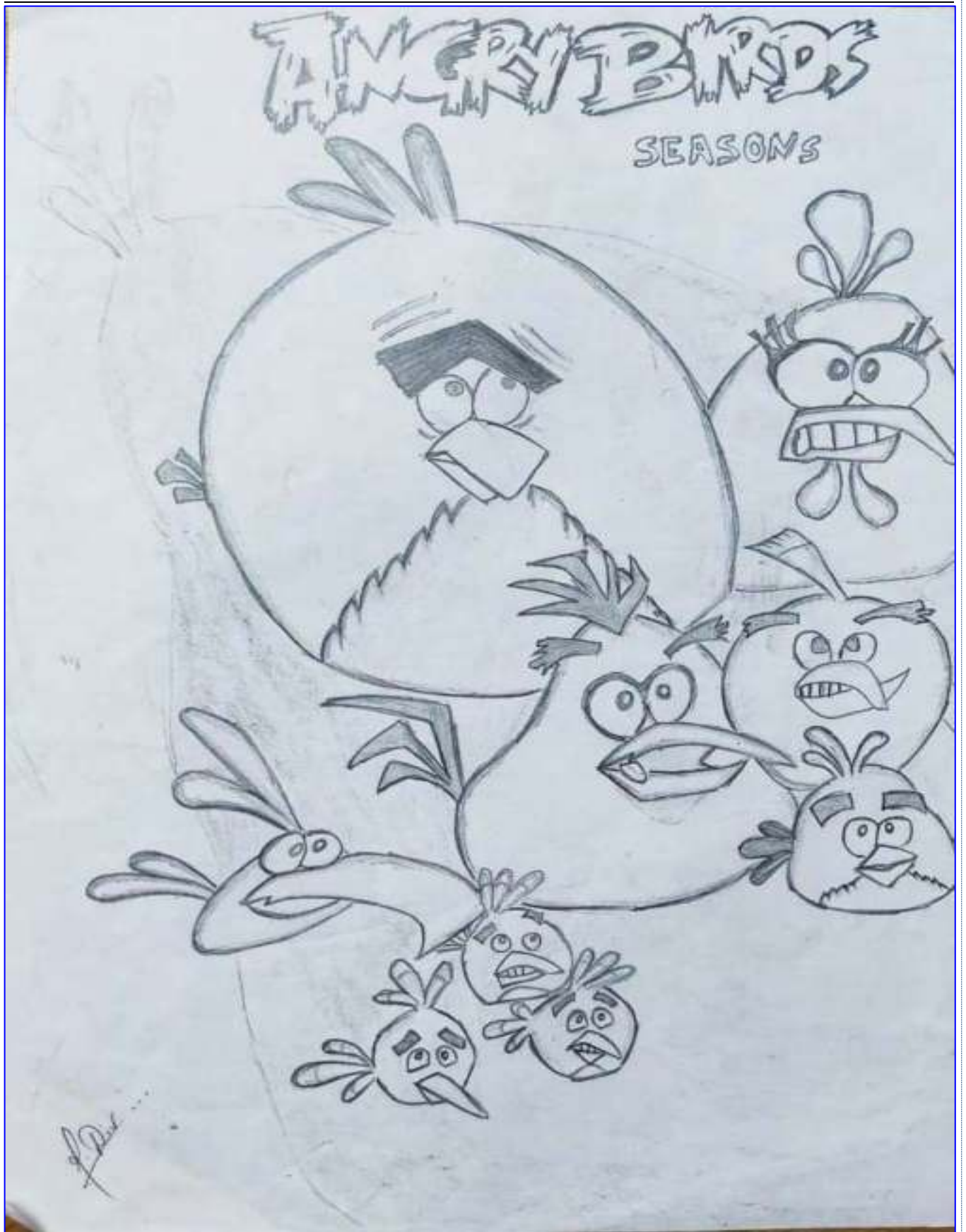
REFERENCES:

<https://www.dramdama.org/solutions/electric-cars>

<https://www.mdpi.com/2071-1050/12/3/1906>

AN ARTICULATION BY:
HARIHARASUDHAN S
ECE - II YEAR

A



BY,
Ms.M. Divya preetha
III YEAR ECE 'A' SECTION



BY,
Ms.M. Divya preetha
III YEAR ECE 'A' SECTION

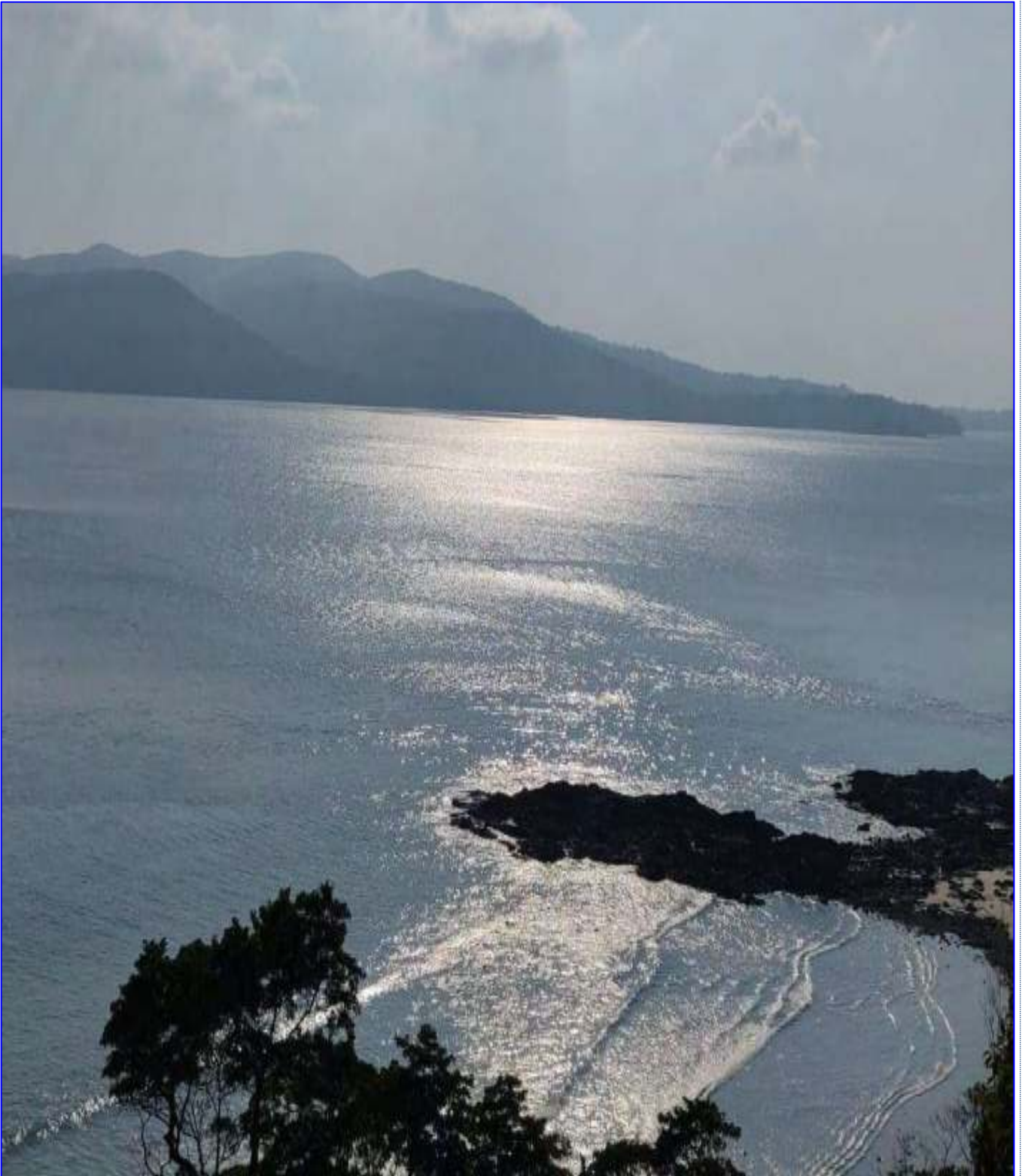


BY,
Ms.M. Divya preetha
III YEAR ECE 'A' SECTION





**BY,
Mr.PRABATH SAI
II YEAR ECE 'B' SECTION**



**BY,
Mr.KARTHIK MADHAN
II YEAR ECE 'B' SECTION**



Reach Us

**THE DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING
EASWARI ENGINEERING COLLEGE**

**Bharathi Salai, Ramapuram,
Chennai - 600 089.**

Tamil Nadu , India .

Tel : 91 - 44 - 2249 0853, 2249 5420, 4392 3041.

E-mail : eecw@vsnl.com

WE ARE ON THE WEB : WWW.SRMEASWARLAC.IN