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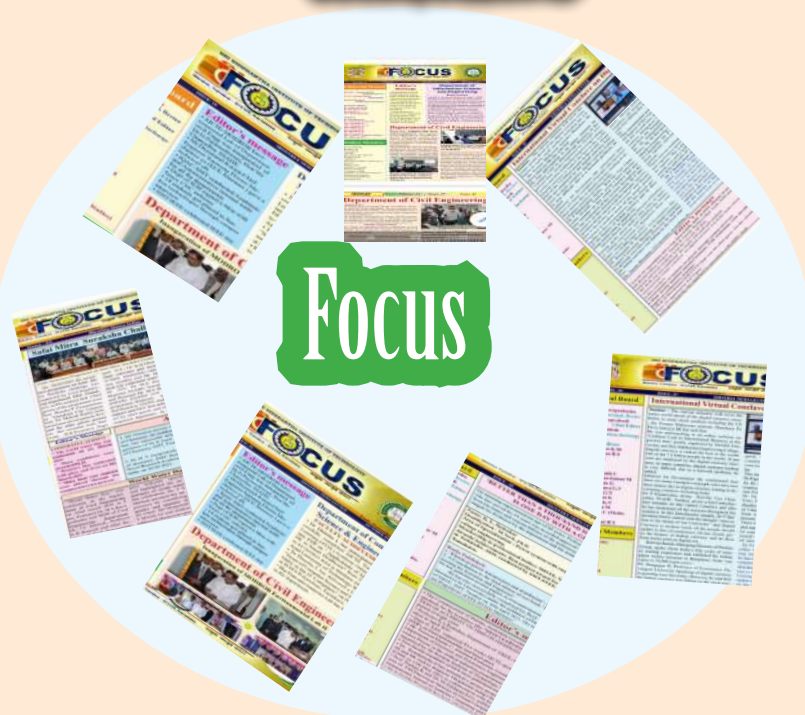
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Editor's message

- Pareekshith K A (18CV065) represented SSAHE in the South zone inter university volleyball-Men's tournament 2021-22 held at Sri Ramaswamy Memorial Institute of Science and Technology, Chennai, from 18th to 23rd December 2021
- 5th Sem civil engg students witnessed the construction activities at Vasantanarasapura Industrial Area
- Dr.S.G.Srikanteshwara Swamy, Former Secretary, KSCST conducted one day workshop on KSCST project proposal writing which was organised by Dept of EEE
- 32 students got placed through campus interview
- Few students have written technical papers on latest technologies
- Department of ETCE, organised International Conference on Mobile Networks and Wireless Communication (ICMNBC-2021) in association with IEE Bangalore section during 03-04 December 2021.

one year
celebration



Printed and Published By Sri Siddhartha Institute of Technology,
Maralur Tumkur.

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Department of Civil Engineering



Department of Civil Engineering organised presentation on Microsoft Project software on 14 Dec 2021 for 5th and 7th semester students. Presentation was delivered by Mr HCM Swamy, Project Management Consultant, Malleshwaram, Bangalore.



5th semester students of Civil Engineering department had visited a site and witnessed roof slab, masonry and other construction works near Vasanthanarasapura industrial area in Tumkur on 24 Dec 2021 with the faculty members Mrs Roopa and Mr. Mithun.

Faculty Achievements

Smt. Sowjanya G V, Assistant Professor, Department of Civil Engineering attended 5days AICTE training and learning (ATAL) Academy online FDP from 29/11/2021 to 03/12/2021 on “Earthquake Resistant Design and Construction Practices”, organised by University Institute of Technology, RGPV, Bhopal, Madhya Pradesh.

Students Achievements

Pareekshith K A (18CV065) selected to SSAHE university volleyball team and participated in South zone inter university volleyball-Men tournament 2021-22 held at Sri Ramaswamy Memorial Institute of Science and Technology, Chennai, from 18th Dec 2021 to 23rd December 2021 which was headed by the coach Mr Shashi Kumar and manager Dr Chandrasekhar.



Department of EEE



Fresher's Day for 3rd sem students organized by EEE Students through Electrical and Electronics Engineering Association



One day workshop - KSCST project proposal writing by Dr. S G Sreekanteshwara Swamy Former Executive

NAME	DATE	TOPIC	ORGANIZATION
Dr L. Sanjeev kumar	11/12/2021	AICTE Sponsored 5 th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimizations Techniques (ICEECCOT-2021)	GSSS Institute Engineering and Technology for Women Mysuru.
Thejaswini R	12/12/2021	A Study on the Perception of Different Converters for Electric – Vehicles	International Journal for Research in Applied Science and Engineering Technology (IJRASET) Volume 9, Issue XII, December 2021,
Dr L. Sanjeev Kumar Head of the Department E&EE Chairman Shri Harsha J Coordinator Electrical & Electronics Engg Association	21/12/2021	Fresher's Day	Organized by EEE Students through Electrical and Electronics Engineering Association for 3 rd sem students
Dr L. Sanjeev Kumar Head of the Department E&EE Chairman Yogananda B S coordinator, IE(I) Shri Harsha J Coordinator Electrical & Electronics Engg Association	09/12/21	One day workshop - KSCST project proposal writing* by Dr. S G Sreekanteshwara Swamy Former Executive Secretary, KSCST	Electrical & Electronics Engg Association

Department of Medical Electronics

I. Department Achievements:

1. Dr. Raju A S and staff coordinated FDP on “Telemedicine: The future health care facility” held during 23/11/2021 to 27/11/2021 successfully under ATAL-AICTE.
2. Mr. Pradeep.M.N has published a paper on “Noise Cancellation in Digital Hearing Aid: A Review” in GIS science Journal, volume 8, Issue 12, December 2021, ISSN: 1869-9391.
3. Mr. Pradeep.M.N has contributed to a text book on “Speech Signal Processing” published by I. K International Publishing House Pvt. Ltd.
4. Dr. Guruprasad S was a resource person for the FDP on “Telemedicine: The future health care facility” held during 23/11/2021 to 27/11/2021 under ATAL- AICTE.
5. Dr. Srinidhi G A was a resource person for the FDP on “Telemedicine: The future health care facility” held during 23/11/2021 to 27/11/2021 under ATAL- AICTE.
6. Ms. Disha Shankar of 3rd Semester participated actively in district level youth festival competitions held in Ravindra Kala Skethra under the banner of Government of Karnataka and bagged first prize.
7. Medical Electronics department team has been selected for finals in volley ball and shuttle cock.

II. Workshops/ Webinars/ FDP’s attended/ Conducted:

1. All the faculty members have attended a FDP on “Telemedicine: The future health care facility” held during 23/11/2021 to 27/11/2021 organized by Sri Siddhartha Institute of Technology, Tumkur under ATAL- AICTE.
2. All the faculty members have attended a FDP on “Electrophysiology and Neuro Instrumentation Biomedical Engineering” held during 08/11/2021 to 12/11/2021 organized by Sri Siddhartha Institute of Technology, Tumkur under ATAL- AICTE.
3. Mr. Pradeep M N has participated and completed successfully AICTE Training and Learning Academy online elementary FDP on “Overview of Speech Processing” from 13/12/2021 to 17/12/2021 at IIT, Dharwad.
4. Mr. Pradeep.M.N has participated and completed successfully AICTE Training and Learning Academy online advanced FDP on “Overview of Speech Processing” from 20/12/2021 to 24/12/2021 at IIT, Dharwad.

III. On-Campus Placement:



1. Ms. Swarna S of 2018-22 batch has been placed in Wipro as project engineer.
2. Ms. Ranjitha K S of 2018-22 batch has been placed in Wipro as project engineer.



3. Ms. Ranjitha K S of 2018-22 has been placed in TCS as Assistant System Engineer-Trainee.

IV. Off- Campus Placement:



1. Ms Shreya R of 2017-21 batch has been placed in Life Signs as Application Specialist.

V. Internship:

1. Ms. Avanthika A S, Ms. Sahana B Gowda, Ms. Akshatha K R and Mr. Bharath S has been offered intership in BPL Medical Technologies Pvt. Ltd., Bangalore .

Department of PHY

1. **Dr.M.Nagaraja** presented a research paper entitled “Performance Analysis of Lung Cancer Classification using Multiple Feature Extraction with SVM and KNN Classifier” in International Conference on Mobile Networks and Wireless Communication (ICMNWC-2021) organised by Department of ETE, SSIT, Tumakuru and IEE Bangalore section during 03-04 December 2021.
2. **Dr.M.Nagaraja** presented a research paper entitled “An Investigation on Computational Intelligent Solutions for Highly Dynamic Wireless Sensor Networks” in 5th International Conference on Computational Vision and Bio Inspired Computing (IC-CVBIC-2021) organised by RVS Technical Campus, Coimbatore, India during 25-26 November 2021.



Department of Information Science and Engineering



- Mr. GANGADHAR M L, Assistant Professor of SSIT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Telemedicine- The future Health care facility" from 23/11/2021 to 27/11/2021 at Sri Siddhartha Institute of Technology.

- Mrs. Champakamala S has participated as Resource Person in six days Faculty Development Programme(FDP) on "Open Source Tools For Lab Courses" organized by the Department of electronics and Communication Engineering, Sri Siddhartha Institute of Technology.

ISE

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY
Department of Information Science & Engineering

2018 batch students who got offer from Tata Consultancy Services

				
Punyashree P 181S003	Madhu Bhasalapur 181S041	Prathish G M 181S059	Namana Jain T R 181S059	Anikha M N 181S008

2018 batch students who got offer from Sasken Technologies

	
Sachin S Naik 181S070	Ranjitha K S 181S068

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY
Department of Information Science & Engineering

2018 batch students who got offer from Thought Focus

	
Namana Jain T R 181S059	Avi Palarya S R 181S009

2018 batch students who got offer from I-exceed Technology Solutions Private Limited

		
Dhakshatha S 181S019	Hurmin 181S030	Praveen T P 181S060

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY
Department of Information Science & Engineering

2018 batch student who got offer from PeopleXcd


Shreesha G 181S075

2018 batch student who got offer from Mindtree Ltd


Anikha M N 181S008

2018 batch student who got offer from REVATURE


Sachin S Naik 181S070

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY
Department of Information Science & Engineering

2018 batch students who got offer from Wipro Technologies

				
Ranjitha K S 181S068	Sankethi S Baglad 181S072	Punyashree P 181S063	Shashidhar S Ganiger 181S075	Chandana Narayana Naik 181S015
				
Akash Gowda D H 181S005	Prathik R 181S058	Praveen T P 181S006	Keerthi G S 181S036	Madhu Bhasalapur 181S041
				
Sachin S Naik 181S070				

Department of Training and Placement

Sl No	Activity	Company	Date	Drive mode
1	Placement drive	People XCD Technical round	3 rd Dec 2021	Virtual
2	Placement drive	People XCD Interview	6 th Dec 2021	Virtual
3	Placement drive	VIT	9 th Dec 2021	Virtual
4	Pre-Placement talk	SCII	13 th Dec 2021	Virtual
5	Aptitude test round	SCII	13 th Dec 2021	Virtual
6	Pre-Placement talk	M-Result	13 th Dec 2021	Online
7	GD round	NTT	14 th Dec 2021	Online
8	HR interview	Speridian Technologies	15 th & 16 th Dec 2021	Online
9	Placement Drive	Techmill Technologies	16 th Dec 2021	Virtual
10	HR interview	SCII	17 th Dec 2021	Virtual
11	Online Test	M-Result	17 th & 18 th Dec 2021	Online
12	HR round	Techmill Technologies	22 nd & 23 rd Dec 2021	Virtual

The following students (2022 batch) are successfully placed in Silverpeak Global, Revature, IBM, People XCD, SCII, Zensar Technologies in the Campus recruitment drive held during Dec 2021.

Sl No.	Student Name	Branch	Company	Package (LPA)
1.	Dharshan T S	ECE	Silverpeak Global	Training & Hiring
2.	Krithika C D	ECE	Silverpeak Global	Training & Hiring
3.	Ammaji Kavallleshwari	ECE	Silverpeak Global	Training & Hiring
4.	Revathi N	ECE	Silverpeak Global	Training & Hiring
5.	Sai Karun	EEE	Silverpeak Global	Training & Hiring
6.	Sumaiya Irshad	ECE	Silverpeak Global	Training & Hiring
7.	Poola Sathya Sai	CSE	Silverpeak Global	Training & Hiring
8.	Amulya TV	ISE	Silverpeak Global	Training & Hiring
9.	ANUJ MEHTA	CSE	Revature	4 to 6
10.	Varun Kumar N M	ECE	Revature	4 to 6
11.	Shashank MR	CSE	Revature	4 to 6
12.	Rahul Kumar	CSE	Revature	4 to 6
13.	Sachin S Naik	ISE	Revature	4 to 6
14.	Shivam Saurabh	CSE	Revature	4 to 6
15.	SANTHOSH K	MCA	Revature	4 to 6
16.	Rakesh Honnamore	CSE	Revature	4 to 6
17.	Preksha K N	CSE	Revature	4 to 6
18.	Jayanth TS	CSE	Revature	4 to 6
19.	Prajwal Choudhary	CSE	Revature	4 to 6
20.	Gaurav Kumar	CSE	Revature	4 to 6
21.	Bhavana T H	CSE	Revature	4 to 6
22.	Rakshith L	E&T	IBM	4
23.	Bhavana Ramesh	E&T	IBM	4
24.	Rakshitha N	ISE	IBM	4
25.	Afreen Aysha	E&T	IBM	4
26.	SHIVAM SAURABH	CSE	People XCD	3.6
27.	Shreeshha G	ISE	People XCD	3.6
28.	Kusuma I N	ECE	SCII	2.7
29.	Angajala Eswar Tej	CSE	SCII	2.7
30.	Yashaswini K H	MCA	SCII	2.7
31.	Nithin S	CSE	Zensar Technologies	4
32.	Sonal Singh	CSE	Zensar Technologies	4

Department of Electronics and Communication Engineering

1. Dr. M N Eshwarappa, Dr. M Suresh, Dr. M C Chandrashekar, Dr. T D Sunil, Dr. Anitha Devi, Dr.C B Vinutha, Dr. Manjula Y M, Dr.M V Chidananda Murthy,

Dr.M K Shyla, Dr. Savitha C, as Session Chair for International Conference on Mobile Networks and Wireless Communications (ICMNWC-2021) organized by Department of Electronics and Telecommunication



Engineering, Sri Siddhartha Institute of Technology, Tumakuru in association with IEEE Bangalore Section and Co-Sponsored by Technical Institute for Engineers (TIE) during 03-04 December, 2021.

2 Dr. M N Eshwarappa, Professor, reviewer for International Conference on Mobile Networks and Wireless Communications (ICMNWC-2021) organized by Department of Electronics and Telecommunication Engineering, Sri Siddhartha Institute of Technology, Tumakuru in association with IEEE Bangalore Section and Co-Sponsored by Technical Institute for Engineers (TIE) during 03-04 December, 2021.

3 Dr.M V Chidananda Murthy, Associate professor, reviewer for International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022) during 23-24 April 2022 in association IEEE Bangalore Section and IEEE Information Theory Society Bangalore Chapter organized by Ballari Institute of Technology and Management.

4 Mrs. Divya Prabha, Dr.M V Chidananda Murthy, Mrs. Ashwini S Shivannavar, Mrs. Komala K, Dr. Savitha C, participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Telemedicine- The Future Health care facility" from 23/11/2021 to 27/11/2021 at Sri Siddhartha Institute of Technology.

5 Mrs. Ashwini S Shivannavar, Assistant Professor, has Presented Paper entitled "Performance Analysis of Lung Cancer Classification using Multiple Feature Extraction with SVM and KNN Classifiers" in International Conference on Mobile Networks and Wireless Communications (ICMNWC-2021) organized by Department of Electronics and Telecommuni-

cation Engineering, Sri Siddhartha Institute of Technology, Tumakuru in association with IEEE Bangalore Section and Co-Sponsored by Technical Institute for Engineers (TIE) during 03-04 December, 2021.

6 Department of Electronics and communication Engineering, Conducted the Webinar on "Applications of Cyber security for Automotives" for Pre-final year Students on 04 December, 2021 in E-learning class room.

7 Dr.M Z Kurian, HOD and ECE staff and students addressed about the Importance, opportunities, academic activities, facilities provided in Department of Electronics and communication Engineering to the society at Community Radio Siddhartha 90.8FM on 14/12/2021.

8 Dr.M Z Kurian, HOD and Dr. M N Eshwarappa Professor, addressed 1st year UG students regards to Induction program on 20/2/2021 in Sir M V Block, SSIT.

9 Mrs. Ashwini S Shivannavar, Assistant Professor, addressed about the stages and need of Women empowerment at Community Radio Siddhartha 90.8FM on 21/12/2021.

10 Dr. M C Chandrashekar, Associate professor, addressed about the Institutional Research at Community Radio Siddhartha 90.8FM on 22/12/2021.

11 Dr. T D Sunil, Associate professor, addressed about the slow learners and mentoring at Community Radio Siddhartha 90.8FM on 23/12/2021.

12 Mrs Sharadha Gupta, Assistant Professor, addressed about the IEEE chapter at Community Radio Siddhartha 90.8FM on 23/12/2021.

13 A workshop on "Big data and Analytics using Hadoop" was organized by SSIT - IEEE student branch on 17th and 18th December 2021.Resource persons, Satheeq Sharabudeen and Pradeep Kumar from KPMG, Bangalore addressed the students.

14 Bhoomika R H(18EC015), VII semester "A" section student wrote a article on "Zigbee Technology".

15 Akshata Shenoy (18EC026), VII semester "A" section student wrote a article on "Silent sound Technology".

16 PLACEMENT DETAILS

Department of Electronics and communication Engineering, Conducted the Webinar on "Applications of Cyber security for Automotives" for Pre-final year Students on 04 December, 2021 in E-learning class room.

The Department of Electronics and Communication Engineering is organizing a Webinar on "Applications of Cybersecurity in Automotive" for Pre-final year students of Electronics & Communication Engineering on 04.12.2021, Saturday from 11am to 1pm.The speaker of this Webinar is Mr. Guruprasad, Advanced Software Engineer, Aptiv Tech Center, Bengaluru. In this Webinar Mr. Guruprasad will speak about:

1. Secure Booting of Automotive ECU's
2. Secure Communication between Automotive ECU's
3. Secure Feature Activation
4. Secure Logging

The topic will expose the students about the cyber risk and challenges to modern vehicles with increase in every code burnt on automotive ECU's (Electronic Control Module)*



NAME: **SUMAIYA KORABU**
 USN: 18EC078
 COMPANY PLACED: SILVER PEAL GLOBAL
 PACKAGE: 18LPA

NAME: **AMMAJI KAVALESHWARI**
 USN: 18EC008
 COMPANY PLACED: SILVER PEAL GLOBAL
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NAME: **KRITHIKA C D**
 USN: 18EC034
 COMPANY PLACED: SILVER PEAL GLOBAL
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NAME: **KUSUMA I N**
 USN: 18EC035
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NAME: **DARSHAN T S**
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NAME: **VARUN KUMAR N M**
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 PACKAGE: 4-6LPA



NAME: **REVATHI N**
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Article by

Bhoomika R H(18EC015), VII semester “A” section student wrote a article on “**Zigbee Technology**”. Zigbee Technology is specially built for control and sensor networks on IEEE 802.15.4 standard for WPANs that is wireless personal area network. The WPANs operate at 868 MHz, 902-928MHz and 2.4GHz frequencies. Zigbee technology works with digital radios by allowing different devices to converse through each other. Router, end devices and coordinator use this network. The small information can be controlled by end devices by communicating with the parent node like a router or the coordinator based on the Zigbee network type. End devices don’t converse directly through each other. First all the traffic can be routed towards the parent node like the router, which holds this data until the devices' receiving end is ready to get it through. End devices are used to request any messages that are waiting from the parent. Every Zigbee network must consist of at least one coor-

ordinator which acts as a root and bridge of the network. The coordinator is responsible for handing and storing the information while performing, receiving and also transmitting data operations. The number of routers, coordinators and end devices depends on the type of networks such as star, tree and mesh networks. Various layers of a stack consisting in a Zigbee protocol architecture are physical layer, MAC layer, Network layer, Application support sub layered application framework. The most commonly used network topologies are star, mesh and cluster tree topologies. The data transfer speed is less as compared with Wi-Fi, so it’s the highest speed is simply 250kbps. It is very less as compared with the less speed of Wi-Fi. One best thing is Zigbee is the rate of power utilization as well as the life of the battery. Its protocol lasts for several months because once it is assembled then, we can forget.

Advantages of Zigbee:

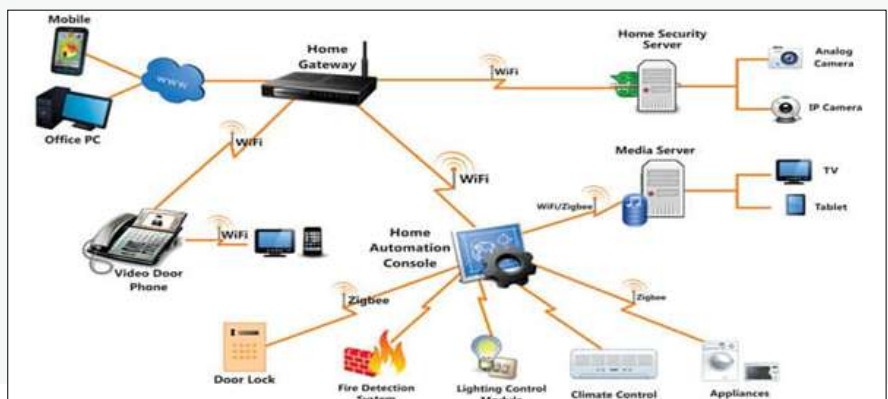
- Flexible network structure
- Battery life is good
- Power consumption is less
- It is a self-healing and reliable
- Network setting is very easy and simple

Disadvantages of Zigbee:

- As compared to Wi-Fi it’s not secure
- The transmission rate is less
- It has less coverage area

Few Applications:

- **Industrial Automation:** In manufacturing and production industries, a communication link continually monitors various parameters and critical equipment. Hence Zigbee continually reduces this communication cost as well as optimizes the control process for greater reliability.
- **Home Automation:** Suited for controlling home appliances remotely as a lighting system control, appliance control, heating and cooling system control, safety equipment operations and control, surveillance, so on....
- **Smart Grid Monitoring:** It involves remote temperature monitoring, fault locating, reactive power management.
- Zigbee technology is used to build engineering projects like wireless fingerprint attendance system and home automation.



Article by **Akshata Shenoy (18EC026), VII semester "A" section student wrote an article on "Silent sound Technology".**

The Silent sound technology is a perfect solution for those people who have lost their voice but wish to speak on mobile phones. This technology helps to detect every lip movement and converts the electrical pulses into sounds signals and sends those signals avoiding the surrounding noise which may cause disturbance. This is going to be a good solution for those who have lost their intensity to speak. The main aim of 'Silent Sound' technology is to notice every movement of the lips and convert them into sound so that the information can be transferred in audio form, which could allow people to make silent calls without bothering about other people. Rather than making any sound, your handset will transfer the movements your mouth makes which will measure the muscle activity with the help of that handset then convert this into audio speech that the person can hear on the other end of the call on phone. So, it reads your lips. This new technology will be very helpful whenever a person loses his voice while speaking and it also allows people to make silent

NEED OF SILENT SOUND TECHNOLOGY

Silent Sound Technology will put an end to embarrassed situation like

- A person answering his silent, but vibrating cell phone in a meeting, lecture or performance, and whispering loudly, I can't talk to you right now.
- In the case of an urgent call, apologetically rushing out of the room in order to answer or call the person back.

METHODS

Silent Sound Technology is processed through some ways

Electromyography (EMG)

Electromyography (EMG) is a technique for evaluating and recording the electrical activity produced by skeletal muscles. EMG is performed using an instrument called an electromyography, to produce a record called an electromyogram.

An electromyography detects the electrical potential generated by muscle cells when these cells are electrically or neurologically activated. Electromyography (EMG) is a technique for evaluating and recording the electrical activity produced by skeletal muscles. The signals can be analysed to detect medical abnormalities, activation level, and recruitment order or to analyse the biomechanics of human or animal movement.

IMAGE PROCESSING

The simplest form of digital image processing converts the digital data tape into a film image with minimal corrections and calibrations. Then large mainframe computers are employed for sophisticated interactive manipulation of the data. In electrical engineering and computer science, image processing is any form of signal processing for which the input is an image, such as a photograph or video frame; the output of image processing may be either an image or, a set of characteristics or parameters related to the image.

calls without disturbing others. This technology can also be used in the military sectors for sharing secret matters with other people.

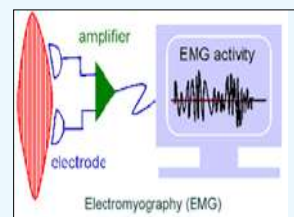
The word Cell Phone has become greatest buzz word in Cellular Communication industry. There are lots and lots of technology that tries to reduce the Noise pollution and make the environment a better place to live in.

This Silent Sound Technology will put an end to Noise pollution. Just think you are in a movie theatre or noisy restaurant or a bus etc.. where there is lot of noise around is big issue while talking on a mobile phone. But in the future this problem is eliminated with "silent sounds", a new technology that transforms lip movements into a computer-generated voice for the listener at the other end of the phone. It is a technology that helps you to transmit information without using your vocal cords. This technology aims to notice lip movements & transform them into a computer generated sound that can be transmitted over a phone.

or methods. Like

- Electromyography (EMG)

- Image Processing



APPLICATIONS

- Helping people who have lost their voice due to illness or accident
- Telling a trusted friend your PIN number over the phone without anyone eavesdropping assuming no lip-readers are around.
- Is applied in Military for communicating secret/confidential matters to others.

CONCLUSION

Thus Silent Sound Technology is one of the recent trends in the field of information technology which can implement "Talking Without Talking".

It will be one of the innovation and useful technology and in mere future this technology will be use in our day to day life.

Rather than making any sounds, your handset would decipher the movements your mouth makes by measuring muscle activity, then convert this into speech that the person on the other end of the call can hear.

This technology is mainly done to make disabled to speak and live a normal life like the way others do.