Google Developer Student Clubs
K S School of Engineering and Management

ACKNOWLEDGEMENT

With pride, I Mr. Rakshith B N, current GDSC Lead with former GDSC Lead Mr. Dhanush Vasudevaraju present this detailed report on the set of events carried out by the community for tenure of 2021 - 2022 to the department of Computer Science and Engineering under the guidance of Mrs. Amitha S, Faculty Advisor for GDSC KSSEM and Dr. K Venkata Rao, HOD CSE.

Dr. K Venkata Rao
HOD CSE
K S School of Engineering and Management

Mrs. Amitha S
Faculty Advisor GDSC KSSEM
K S School of Engineering and Management

RAKSHTIH B N | GDSC LEAD

DHANUSH VASUDEVARAJU

Date - 09-12-2022

Department of CSE
K S School of Engineering and Management

Subject: Report of 2021 - 2022 tenure of Mr. Dhanush Vasudevaraju

To whomsoever it may concern,

      This report states all the activities carried out by Mr. Dhanush Vasudevaraju of class 7th A, bearing USN 1KG19CS025. I kindly request the respected authority to accept this report.

Declaration

I Mr. Rakshith B N bearing USN 1KG19CS071, of class 7th B and the current GDSC Lead for the tenure 2022 - 2023, acknowledge this report to the best of my knowledge and state that all the information given here is true.

RAKSHTIH B N | GDSC LEAD

I Mr. Dhanush Vasudevaraju bearing USN 1KG19CS025, of class 7th A and the former GDSC Lead for the tenure 2021 - 2022, acknowledge this report to the best of my knowledge and state that all the information given here is true.

DHANUSH VASUDEVARAJU

Dr. K Venkata Rao
HOD CSE
K S School of Engineering and Management

Mrs. Amitha S
Faculty Advisor GDSC KSSEM
K S School of Engineering and Management

INTRODUCTION

Google Developer Student Clubs are university based community groups for students interested in Google developer technologies. Students from all undergraduate or graduate programs with an interest in growing as a developer are welcome. By joining a GDSC, students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and their community.

GDSC KSSEM since 2019 were based on teamwork and open source values, I presented myself as a valuable member and helped create a inclusive community with open source values, and encouraged the core team to apply for numerous opportunities upon which many had those exposure. I had a team of 6 members all whom played a important part in the successful completion of the tenure.

I can proudly say that, Ms. Deepika P N bearing USN 1KG19CS024 and Ms. Riya Sing bearing USN 1KG19CS075 were a part of the Microsoft Student Learn Ambassador as the campus ambassadors.

I can also say that all the core team members Mr. Rakshith B N bearing USN 1KG19CS071, Ms. Deepika P N bearing USN 1KG19CS024, Ms. Yogitha Prakash bearing USN 1KG19CS119, Ms. Valleri Manisha bearing USN 1KG19CS110, Ms. Devpoojitha bearing USN 1KG18CS029, Ms. Amitha S M bearing USN 1KG18CS008, Ms. Sahana S Hedge bearing USN 1KG20CS097, Ms. Meghana M bearing USN 1KG20CS063, Ms. Riya Singh bearing USN 1KG19CS075, Mr. Sean Kevin bearing USN 1KG18CS098 contributed immensely to the successful completion of my tenure and I can say that I'm proud to have collaborated and have them as a part of the core team.

All the core team members had exceptional capabilities individually and in the sense of collaborating as a team, which led to the numerous successful events and collaborating with two different companies.

I would also like to thank GDSC India and Mr. Sameer S Kashyap for helping me and instilling his knowledge and support in me always. I would also like to thank all the existing core team member of GDSC KSSEM from the tenure 2019 - 2020 for helping me in completing my tenure. I would also like to thank our current GDSC KSSEM lead Mr. Rakshith B N for being there in every step of the way.

LIST OF EVENTS

The given below are a list of events that took place -

1. **GDSC WOW [Wonder of Wonders] | February 25 - 27, 2021 [Virtual]**
A pan India event, and one of the biggest collaborative online events with over 200+ GDSC's across India. A three days long virtual event, consisting of a plethora of activities like Speaker Sessions, Live Coding, Open Source Projects, Webinars and Discussions on various topics of the latest technologies, and much more.

2. **Android Study Jam KSSEM | November 27, 2021 [Virtual]**
Become an Android Developer using Kotlin programming language with the help of a curriculum provided by Google. A much needed skill in today's world of developing Android Apps.
The Event Covered what are Android Study Jams, which Track is best for you, how to Proceed after choosing your desired Track.

3. **Google Cloud Study Jam #1 | October 18, 2021 [In-Person]**
We hosted our first offline Google Cloud study Jam as a part of 30 days of Google Cloud offered to the students of GDSC-KSSEM. Everyone is welcome to learn more but only successfully enrolled students will be able to participate in hands-on lab.

4. **Google Cloud Study Jam #2 | October 9, 2021 [In-Person]**
We hosted our first offline Google Cloud study Jam as a part of 30 days of Google Cloud offered to the students of GDSC-KSSEM. Everyone is welcome to learn more but only successfully enrolled students will be able to participate in the hands-on lab.

5. **Insight Into GDSC | October 24, 2021 [Virtual]**
We welcomed participants to this amazing event!, we have come up with a mega event in collaboration with 14 other DSCs. This online event "Insight into DSC" was a grand informative session with 4 amazing speakers! It will give you a better idea about Developer Student Club and the things we do to bring a change. We hope that after this event, many of you will join us with more energy and be a part of our journey!

6. **Hands-on Session on Poster Designing | May 7, 2021 [Virtual]**
We welcomed participants to this amazing event!, we have come up with a mega event in collaboration with 14 other DSCs. This online event "Insight into DSC" was a grand informative session with 4 amazing speakers. It gave the participants a better idea about Google Developer Student Club and the things we do to bring a change.

CONCLUSION

My journey began with Mr. Sameer S Kashyap getting selected as lead for his tenure 2020 -2021 and recruiting me as one of core members at DSC KSSEM. We were actively mentored and supported by Mr. Sameer S Kashyap, Ms. Parinita Vedantam and Mr. Rajath Bharadwaj. I got the oppurtunity to learn necessary skills required to get selected as lead for GDSC for the tenure 2021-2022 with the support of my fellow core members and team.

My tenure as the lead for GDSC started with introduction of Mrs. Amitha.S as faculty advisor and active guidance from former HOD, Mrs. Vandana Jha. I would like to mention Mr. Rakshith B N and Mr. Sameer Kashyap's for supporting me to form a team with Mr. Rakshith B N himself bearing USN 1KG19CS071, Ms. Deepika P N bearing USN 1KG19CS024, Ms. Yogitha Prakash bearing USN 1KG19CS119, Ms. Valleri Manisha bearing USN 1KG19CS110, Ms. Devpoojitha bearing USN 1KG18CS029 with new members- Ms. Amitha S M bearing USN 1KG18CS008, Ms. Sahana S Hedge bearing USN 1KG20CS097, Ms. Meghana M bearing USN 1KG20CS063, Ms. Riya Singh bearing USN 1KG19CS075, Mr. Sean Kevin bearing USN 1KG18CS098.

During my tenure, the GDSC and the entire supporting members from Google helped groom many leads like me. It helped me achieve quite a few milestones such as joining a startup company "Techie Tessie" and getting selected for internship at "Celstream Technologies". Also, I got the opportunity to help other GDSC lead aspirants to get selected. I hope that my tenure as a lead benefitted my fellow peers to gain new skills and knowledge through Google's events.

I would like to thank every core team member for their immense enthusiasm to learn and team spirit which helped our college's GDSC club to outperform other colleges' clubs. I would also like to proudly mention Ms. Deepika P N bearing USN 1KG19CS024 and Ms. Riya Singh bearing USN 1KG19CS075 for getting selected as Campus Ambassadors for Microsoft Student Learn Ambassador program during my tenure.

I would also like to thank our current HOD, Dr. K Venkata Rao for his support towards the growth of our club and our faculty advisor, Mrs. Amitha S for acting as backbone towards our club and conduction of every Google event.

Finally, I would also like to highlight Mr. Rakshith B N and Ms. Deepika P N for their tremendous hardwork and implementing various new approaches for the benefit of our peers and college during my tenure. I would like to wish all the best to Mr. Rakshith B N and his whole team for their future endeavors. I would like to wish the same for all upcoming GDSC leads and core members of our college. I hope that our club continues to grow and achieve new milestones.
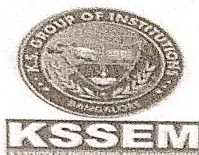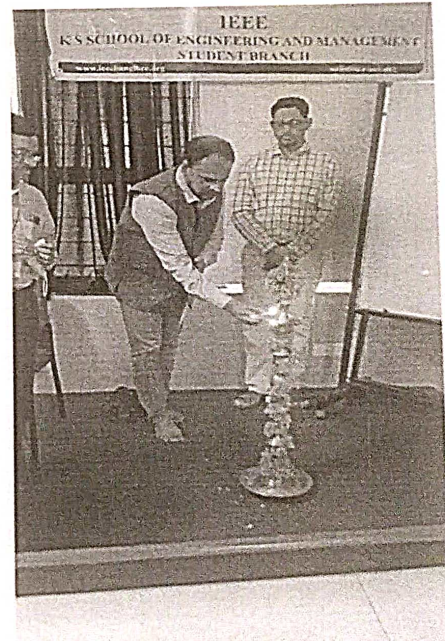
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Report on

'Inauguration of IEEE SENSOR COUNCIL STUDENT CHAPTER'

Event name: Inauguration of IEEE SENSOR COUNCIL STUDENT CHAPTER

Date of event: 18 April, 2022

Targeted Audience: All students and faculty members of ECE depart.

We had an inauguration of IEEE Sensors Council Student Chapter, which was a new sub-branch launched in the IEEE student branch of our student branch.

The event hosted by Ms. Aswini Chair, IEEE KSSEM Student Branch, This event had a chief guest Dr. Ravishankar Holla as well as guest speaker for the day Dr. Uttam M Pal and Principal Dr. K. Rama Narasimha and Dr. Vijayalakshmi Akella vice principal and Hod of Civil department. Dr. Girish V Attimarad Hod and Chair of IEEE KSSEM student branch ECE and Dr. Karthik P Branch Counsellor IEEE Student Branch and students from ECE department who graced the occasion with their valuable presence. The Inaugural ceremony commenced with introduction of the Chief Guest by Dr. Girish V Attimarad and followed with the lighting of lamp by the dignitaries with talk by Dr. Vijayalakshmi Akella.

The inaugural ceremony came to end with vote of thanks and the host thanked all the dignitaries for devoting their time and gracing the occasion by their presence and also thanked students and IEEE branch members that went above and beyond to make the IEEE Sensor Council Student Branch Chapter Inauguration a huge success.

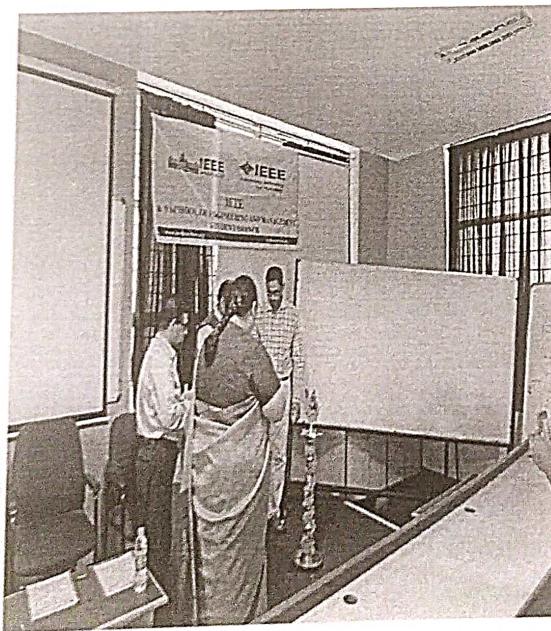**Attached below are a few pictures of the inauguration.**

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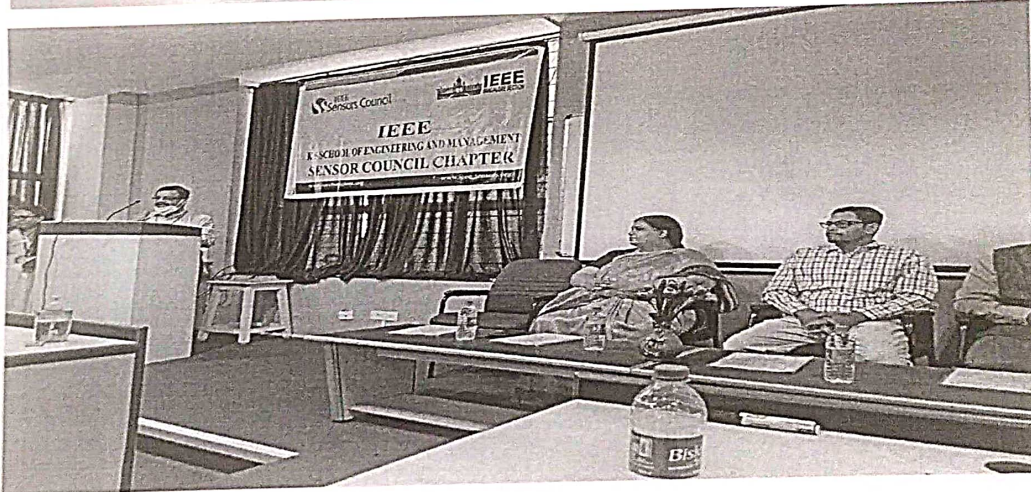**KSSEM** DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Signature of HoD,ECE
Professor & Head
Dept. of Electronics & Communication Engineering
K S School of Engineering & Management
Bangalore-560 109

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Report on
'Technical Talk on Recent Advances in Optical Sensors in Healthcare'

<u>Event name:</u> Inauguration of IEEE SENSOR COUNCIL STUDENT CHAPTER

<u>Date of event:</u> 18 April, 2022

<u>Targeted Audience:</u> All students and faculty members of ECE depart.

We had an technical talk on Recent Advances in Optical Sensors in Healthcare under the IEEE Sensors Council Student Chapter, which was a new sub-branch launched in the IEEE student branch of our student branch.

The event Dr. Uttam Pal is an Assistant Professor in Biomedical Engineering Stream, Department of Sciences and Humanities, IIITDM Kancheepuram-Chennai. With the recent advances in the fabrication of electronics and optical devices, we are at a horizon of developing novel in-vivo optical tools. Such tools can help understand complex biological systems, diagnose disease, and track disease progression. This talk will discuss the latest developments in optical sensors using biological tissue and fluid as interacting media. We will learn how the researchers are pushing frontiers further in the field of absorption spectroscopy; diffuse reflectance spectroscopy, polarization-sensitive spectroscopy, Raman spectroscopy, fluorescence spectroscopy, and surface plasmonic methods. The challenges of translating an optical device from bench side in laboratory to bedside in hospital settings will also be discussed.

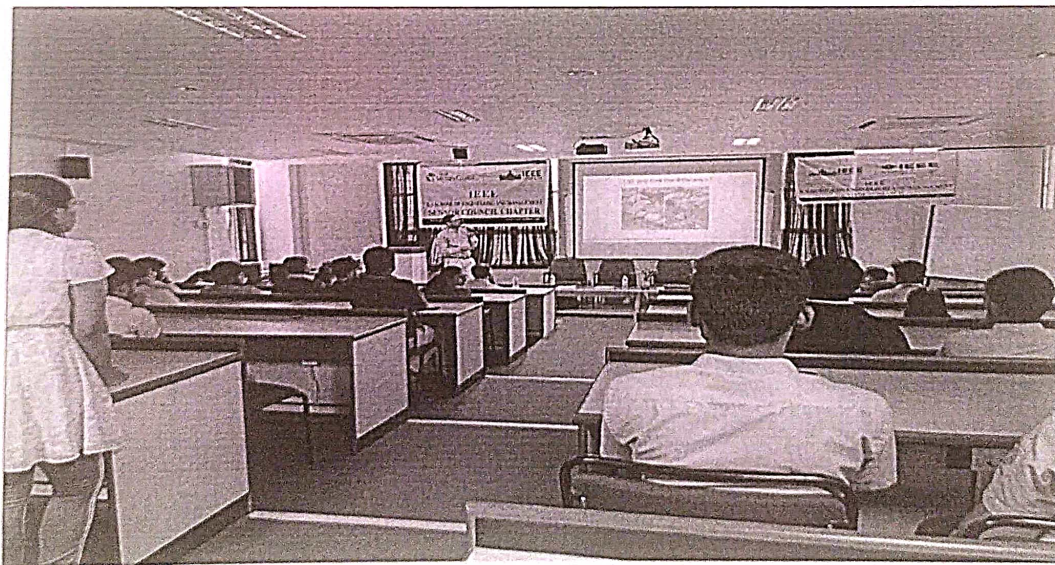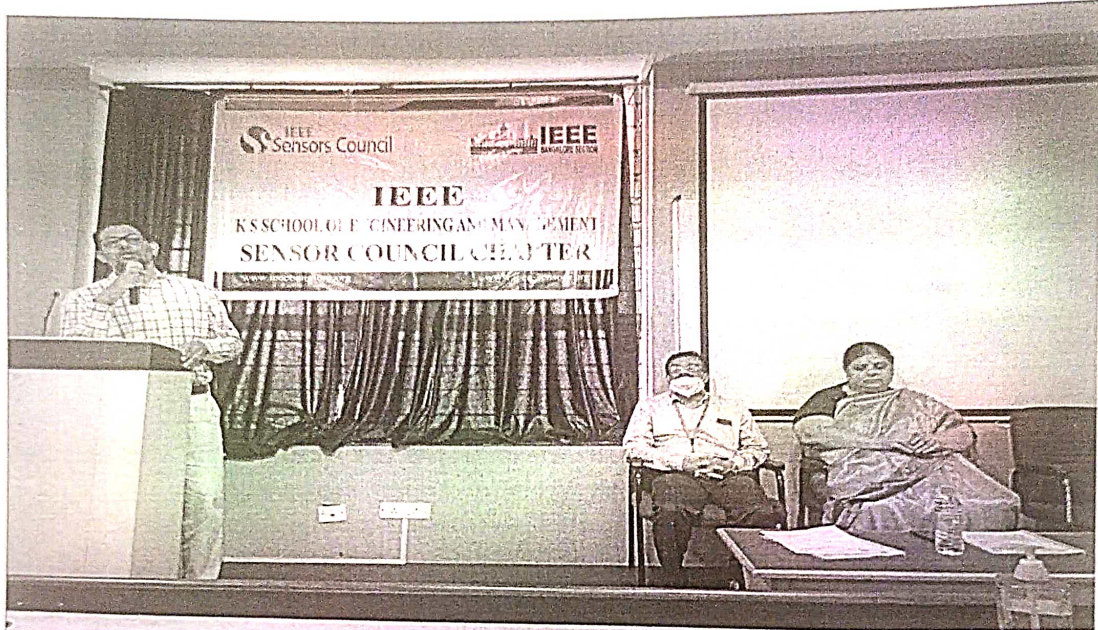*Attached below are a few pictures of the inauguration.*

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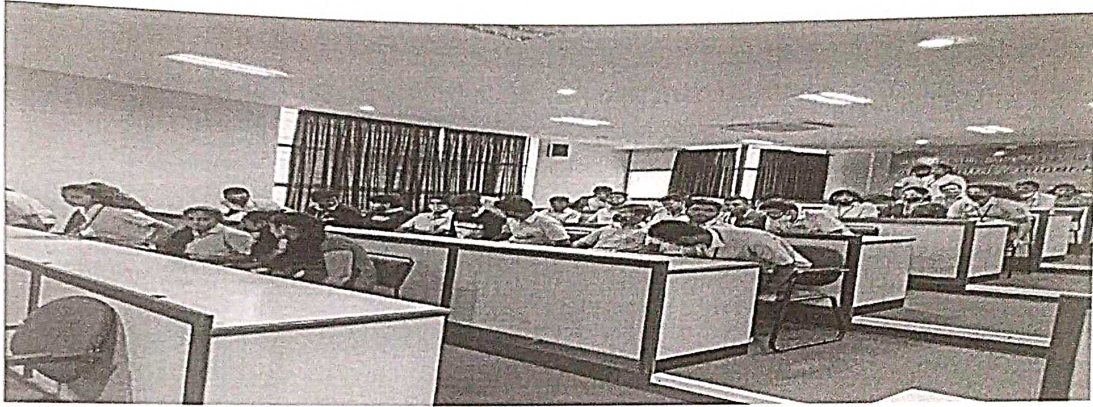## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Report on

"Brain Machine Interfaces & Machine Learning"

Date and Time : 7th July 2022 from 10.45AM to 12.45PM

Venue : Aryabhata Seminar Hall

Organized by: Department of Electronics and Communication Engineering, K. S. School of Engineering and Management, Bengaluru

Resource Person: Dr. K. Mahantesh, Associate Professor, Dept. of ECE, SJBIT, Bengaluru

Target Audience: 6th semester students of ECE (Both A & B Section)

Scope and Objectives:

This Guest Lecture focused on importance of booming technologies like Machine learning, Internet of Things and Artificial Intelligence.

This guest lecture on Brain Machine Interfaces & Machine Learning was organized for 6th semester students of Electronics & Communication Engineering. 70 students were present in the guest lecture. Speaker informed about importance of supervised and unsupervised learning in artificial intelligence. He also informed the significant differences between classification and regression. He also mentioned the usage of continual and zero shot learning in artificial intelligence. Students were benefited learning about different types of technologies which are existing in the market.

Lots of questions were asked at the end of speaker's presentation. Speaker answered all the queries asked by the participants. Speaker discussed about current technologies

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and accuracy related issues in machine learning and artificial intelligence. 70 students were present in the guest lecture.
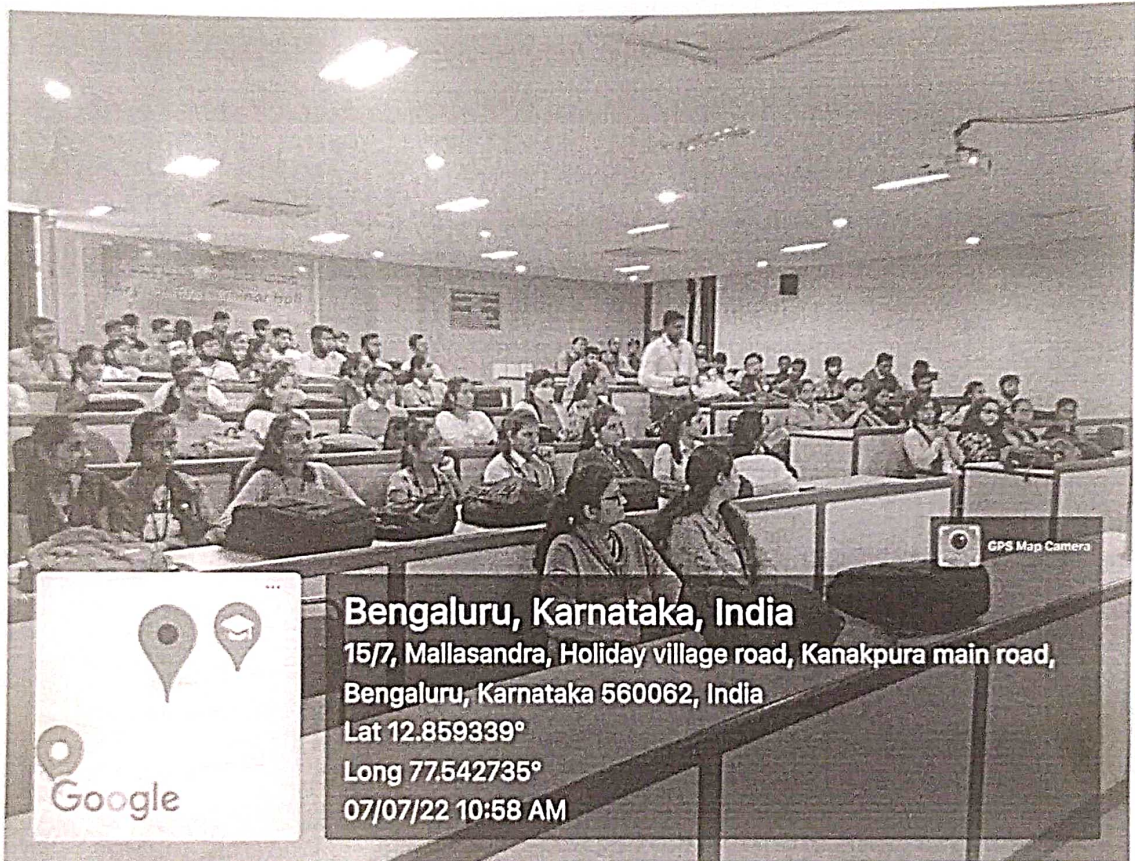

Fig A: Screenshot-1 of guest lecture
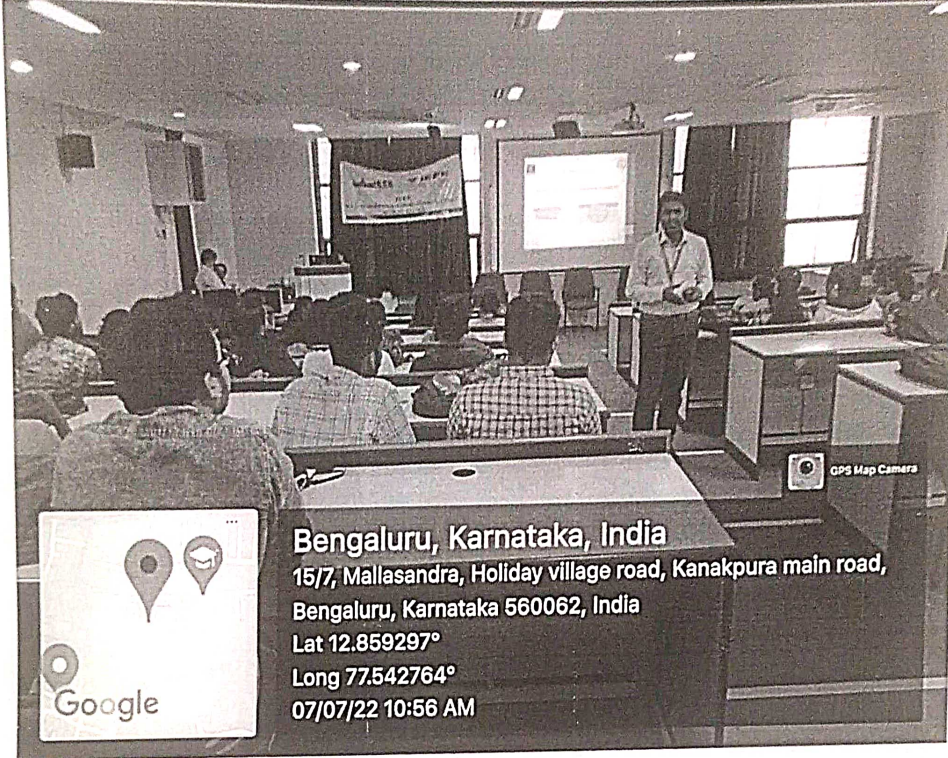
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Bengaluru, Karnataka, India
15/7, Mallasandra, Holiday village road, Kanakpura main road,
Bengaluru, Karnataka 560062, India
Lat 12.859297°
Long 77.542764°
07/07/22 10:56 AM

guest lecture

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No.15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109
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Department of Electronics & Communication Engineering

Presents Guest Lecture on

"Brain Machine Interfaces & Machine Learning"

Speaker:
Dr. Mahantesh K,
Associate Professor, Dept. of ECE,
S.J.B Institute of Technology, Bengaluru.

Date : July 7th, 2022
Time : 10.45am to 12.35pm
Venue : Aryabhata Seminar Hall

Event Coordinator	Conveners	Patron
Mr. Dileep J	Dr. Girish V. Attimarad	Dr. K. Rama Narasinha
Assistant Professor, Dept. of ECE	Professor & Head, Dept. of ECE	Principal/Director

Fig C: Guest Lecture Poster

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Mapping of webinar with PO'S and PSO'S

Program	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
Guest Lecture	2	2	1	1	-	-	-	-	2	1	2	2	2

- PO1: Participants gained the knowledge of engineering fundamentals of artificial intelligence.
- PO2: Participants can be able to analyze complex engineering problems related to machine learning.
- PO3: Participants can be able to apply the knowledge in using various classification algorithms.
- PO4: Participants can identify complex problems for research work.
- PO9: Participants understands the benefit of Team work
- PO10: Participants can communicate effectively by gaining knowledge.
- PO11: Participants understood the requirements in doing project work
- PO12: Participants can apply the basic knowledge in lifelong learning of new programming skills in artificial intelligence.
- PSO1: Participants are able to understand and apply machine learning concepts to various fields of signal communication problems.

Report Submitted By

Mr. Dileep J
Dept. of ECE

Signature of HoD, ECE

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IEEE
BANGALORE SECTION

Report on
Webinar on 'VLSI &image processing'
Organized by IEEE Student Branch, KSSEM
In association with IEEE Bangalore section.

<u>Event name:</u> Webinar
<u>Topic:</u> **Demystifying in VLSI & image-processing**
<u>Date of event:</u> 2nd June, 2022
<u>Number of participants:</u> 50
<u>Targeted Audience:</u> ECE Students of all semesters.

The IEEE Student branch in association with the ECE department, of KSSEM, had organized a technical talk on, "Demystifying in VLSI & image-processing" on 2nd of June 2022 at 6pm IST.
The webinar was conducted through 'Zoom' – a videoconferencing platform. The talk was delivered by Dr. K Ezhilarasan, Assoc. Professor, ECE, and CMR University. Dr. Girish V Attimarad, HoD of ECE, &Dr.Karthik P, branch counsellor of IEEE KSSEM SB graced the event with their presence.

Dr. K. Ezhilarasan delivered a lecture on *VLSI.* Very large-scale integration is a process of embedding or integrating hundreds of thousands of transistors onto a singular silicon semiconductor microchip. The remarkable growth of the electronics industry is primarily due to the advances in large-scale integration technologies. With the arrival of VLSI designs, the number of possibilities for ICs in control applications, telecommunications, high-performance computing, and consumer electronics as a whole continues to rise.
The speaker also explained about *Image-processing.* Image processing is the process of transforming an image into a digital form and performing certain operations to get some useful information from it. The image processing system usually treats all images as 2D signals when applying certain predetermined signal processing methods.
The session was interactive and we gained insights on some ground-breaking technologies of the Electronics world. We also received good response and good feedback from the Audience. In conclusion, this webinar was very resourceful and successful.

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Photo Gallery:
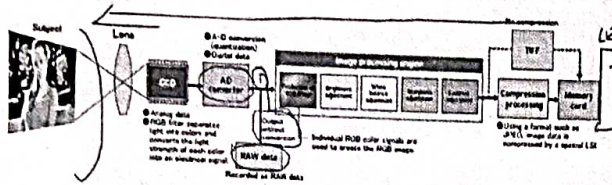
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Digital Camera Signal Process Flow

Chandini P

Dr. K. Ezhilarasan
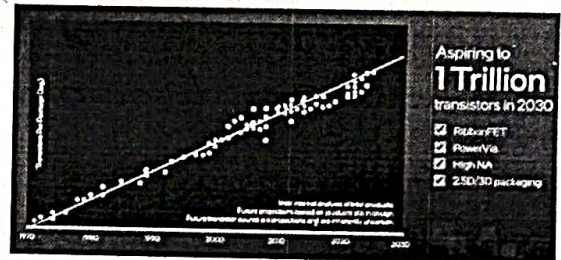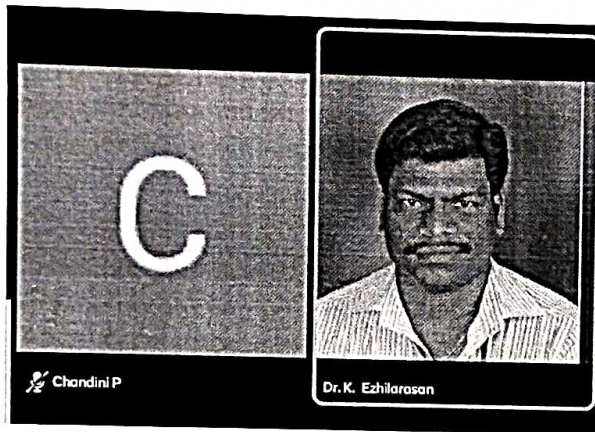
"Approximately 1 trillion transistors in a single device by 2030"

source: Intel
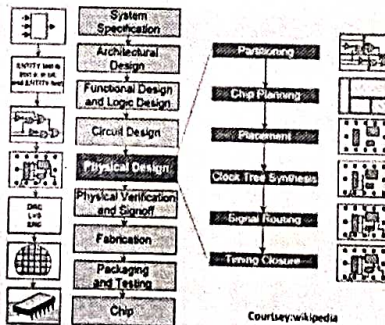
VLSI Flow

Courtesy:wikipedia

Signature of HOD, ECE

Professor & Head
Dept. of Electronics & Communication Engineering
K. S. School of Engineering & Management
Bangalore-560 109

List of students who registered for IEEE student Chapter and they worked as a Volunteers

IEEE OU Analytics

Students - Detail

This list provides details for the members attending educational institutions in your organizational unit.
• Refine data through filters and view results.
• Download options are available by clicking "Download" in the upper right corner.
• Additional contact/member details are provided in the output.
• **Important: Choose an OU from "Select OU of your Volunteer Role" filter to view customized results for your OU position.**

Select OU of your Volunteer Role	Region	Section	School Region	School Section	School Name	Grade	IEEE Status	Gender
All	All	All	R10	All	K S School of Eng a..	All	Active	All

Member/Customer #	First Name	Last Name	HKN Member
All	A Aafiya	All	All

Region	Section	School Region	School Section	School Name	Member/Customer Number	Last Name	First Name	Middle Name	Email Address	Grade	Company/Attention	Location	Country	School Number	Home Number
R10	Bangalore Section	R10	Bangalore Section	K S School of Eng and Manageme..	97286759	V	Pavan		pavankrishna1..	Member	nul	Bangaluru Karnataka 56..	India		
					97514176	BV	Lavanya		lavanyanaidub..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India	+	+
					97516147	s	bhavana		bhavanas1731..	Student Member	Electronics and Com..	Bangalore Karnataka 56..	India		
					97516187	P	Chandini		chandhuspchan..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					97693067	M	Tejashree		tejamohan016..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					97994302	Kulsoom	Aafiya		aafiyaahmed24..	Student Member	Electronics and Com..	Bangalore Karnataka 56..	India		
					98029601	S	Anusha		sumithraanush..	Student Member	computer science e..	Bengaluru Karnataka 56..	India		
					98029847	B C	Harshitha		harshithabc721..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98032907	Yuvasree	A		yuvasreechowd..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98033000	Lokesh	M		mandalalokesh..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98033009	Deepika	D Dhanya		dhanyadeepika..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98033103	Chowdary	Saliseemla Usha		ushauma2002..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98045745	Chowdary	Kakarla Jaswanth		kjaswanth9347..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98045958	S	Akshatha		akshathasnaid..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98050683	Kaivalya	M		kaivalya.malep..	Student Member	K S School of Engine..	Bengaluru 560109	India		
					98053165	K	Koushik		kousu1976@g..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98053211	Chowdary	Saliseemala Uma		umasusha2002..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98056513	Pooja	G		gudivadapooja..	Student Member	K S School of Engine..	Bengaluru Karnataka 56..	India		
					98056517	S	Neha		kumarineha98..	Student Member	K S School	Bengaluru	India		

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