SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

&

ELECTRONICS AND COMMUNICATION ENGINEERS ASSOCIATION

&

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS-SF

&

ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB

REPORT ON GUEST LECTURE ON VLSI

The guest lecture on VLSI was organised and coordinated by the Electronics and Communication Engineers Association (ECEA), along with Institution of Electronics and Telecommunication Engineers (IETE) - Student Forum, and the Robotics and Artificial Intelligence Club (RAIC) of Sri Venkateswara College of Engineering, on Tuesday, 7th March 2023, in the college premises. The Chief Guest & the expert key speaker of this event is Dr. K. Saravanan – Design Engineer, Physical Design, Cerium system.

This guest lecture was conducted exclusively for pre-final year students belonging to the department of ECE. The venue of the Guest Lecture was classroom no. 506. The motive of the Guest Lecture was to improve the knowledge on VLSI for the students & provide instincts in the current technological trends in the field.

Commencement of the event	7th March, 2023 (9:30 AM IST)
End of the event	7th March, 2023 (12:00 PM IST)
Total Participants	100 Participants

PROPOSAL OF THE EVENT

SVCE | Sri Venkateswara College of Engineering

SRI VENKATESWARA COLLEGE OF ENGINEERING Pennalur,Sriperumbudur Taluk -602117

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

In Association with

ELECTRONICS AND COMMUNICATION ENGINEERS' ASSOCIATION – SVCE

&

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS-SF

&

ROBOTICS & ARTIFICIAL INTELLIGENCE CLUB

Proposal for conducting "Guest Lecture on VLSI"

ECE Association, IETE - Students Forum and RAIC of SVCE is planning to conduct a "**Guest Lecture on VLSI**" on **Tuesday, 7th March 2023** in our college premises. The guest lecture is conducted exclusively for III year students.

The chief guest and the expert key speaker of this guest lecture is Dr.K. Saravanan, Design Engineer, Physical Design, Cerium system with 2.5 years of hands-on experience in VLSI design.

This event is aimed to improve the student's knowledge on Verilog coding, future trends of VLSI and also to provide instincts on the current technological trend. Kindly approve this proposal and grant permission to conduct this guest lecture.

Venue: III Year Classroom

Timing: 9:30 A.M onwards

Thank You

Signature of the Faculty Co-ordinator

Signature of the HOD 9/8/23

AGENDA OF THE EVENT

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

along with

ELECTRONICS AND COMMUNICATION ENGINEERS ASSOCIATION

&

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS - STUDENTS FORUM

Solicits your esteemed presence for the

GUEST LECTURE (2022-2023)

Dr.Saravanan.K

Design Engineer

Cerium Systems

Bengaluru

DATE :07.03.2023

TIME : 09.30 AM

VENUE : V-BLOCK-506

AGENDA

9:35 AM-9:40 AM -	**Introduction of the Chief Guest by Dr. T.J. Jeyaprabha – ECEA, IETE SF, RAIC, FODSE Co-ordinator**
9:40 AM-11:50 AM -	**Technical Talk on “VLSI Physical Design"**
11:50 AM-12:00 PM -	**Vote of Thanks by Mr. Athappan M, Associate Professor, Dept. of ECE SVCE**

About the guest:

The guest lecture was delivered by Dr. K. Saravanan – Design Engineer, Physical Design, Cerium system. He completed his education at Vel Tech Engineering College in VLSI Design. He has 15+ years' experience of teaching & working in the designing & fabrication of VLSI. His vast knowledge in the design technologies has proved to have inspired the students to develop an interest in VLSI from a career and academic perspective.

About the event:

The session commenced with Dr. T.J. Jeyaprabha, Associate Professor – Department of ECE welcoming the guest lecturer Mr. Saravanan K. It was followed by a detailed lecture on the basics of the fabrication process of chips by the Guest Speaker. The students were introduced to a solid briefing about the basics of Logic Gates & CMOS circuits. The application of concepts & application through simulation, verification, and physical implementation of chips. He further explained about the process of optimization in the chip manufacturing industries.

The speaker briefed the participants about the latest developments in the domain of VLSI, its significance in the current world, and how it can emerge as a field of opportunities for engineers. He spoke about his role as a Design Engineer, and he gave an overview about the products and devices that are manufactured. He also designed and described different adder architectures & data path circuits such as comparators & shifters. The Speaker stressed the importance of design thinking principles in the domain. He also spoke about the various errors that can occur in the process and the several consequences of the same through case studies.

Salient features of the Guest Lecture :

- Importance of VLSI design in the current world scenario.
- Solid introductory knowledge on VLSI concepts using standard introductory tools.
- Widespread usage of tools like Cadence in the industry.
- Importance of Testing and Quality Assurance department in this field.
- Top Companies hiring candidates proficient in VLSI domain.

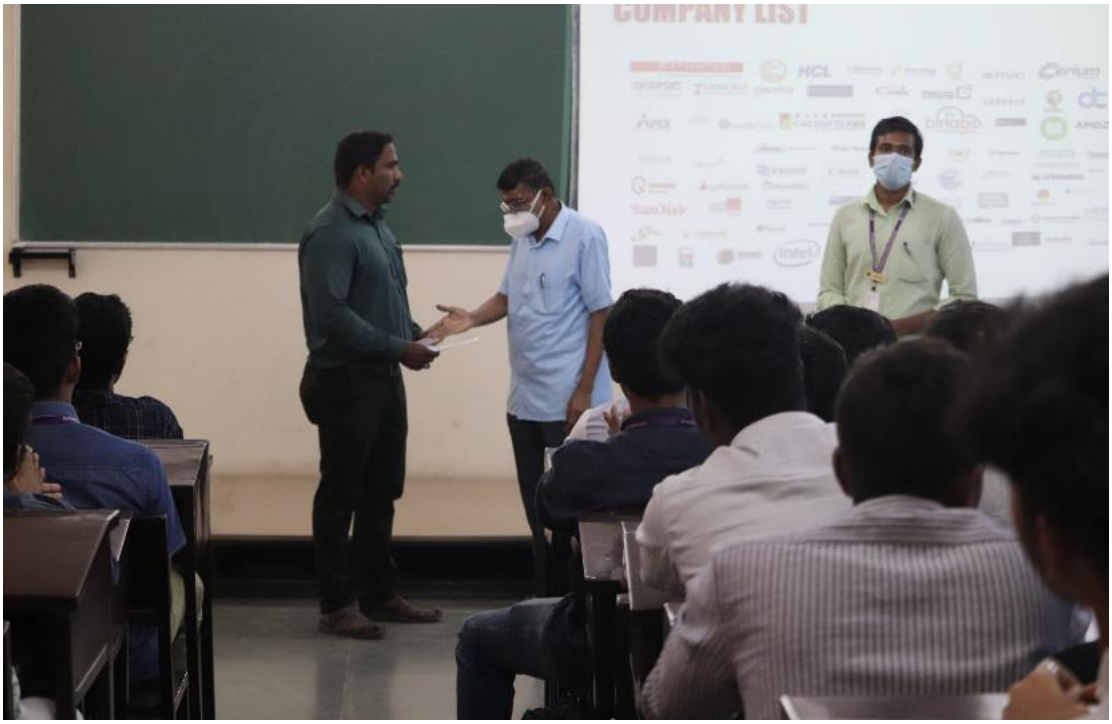
The session was truly interesting and enlightening. All the participants were inspired by the knowledge portrayed by the chief guest speaker. The chief guest speaker was also very interactive and answered every question put forth by the participants during the "Q&A" session.

The session concluded with a Vote of Thanks by Mr. Athappan M, Associate Professor, Department of ECE. He appreciated the enlightening knowledge transfer & the efforts of the organizing committee. The event received an overall positive response & enthusiasm from the participants & faculty.

Some snaps from the session:

Snapshot of the event commencement

Snapshot of Honouring the Chief Guest



Participants List of the event:

07.03.2023 ECE - A (III year)

GUEST LECTURE ON VLSI PRODUCT DESIGN

SR No	REGISTER NUMBER	NAME	SIGN
1	212720070 1022	Ashratha. M.R	
2	212720070 1049	Hosibha. V.L	V.L Hosibha
3	212720070 1006	ABINAYA.G	
4	212720070 1029	DHANA SRI. R	
5	212720070 1015	ANIRUDH. R	
6	212720070 1016	R. APARNA	
7	212720070 1003	AARTHI. S	
8	212720070 1009	Adithya. V	
9	212720070 1012	Akshay Kumar. S	
10	212720070 1001	Aadittya Prasad	Aadittya
11	212720070 1014	Ambrish. Y	
12	212720070 1047	Hemanth kumar. U	
13	212720070 1046	Harshan. T.S.	
14	212720070 1021	Arvindh G	
15	212720070 1026	Bacoath. M	
16	212720070 1045	HARSHAVARDHAN	
17	212720070 1041	HARIHARAN. G	
18	212720070 1037	Gnanavignesh. M	
19	212720070 1035	Gokulgopinath. P	
20	212720070 1036	Gokul. E	
21	212720070 1028	Bella Tirupathi Naidu	
22	212720070 1020	ARJUN VIJAY	
23	212720070 1008	Aathya N	

/023

ECE - B (III year)

GUEST LECTURE ON VLSI PRODUCT DESIGN

	REGISTER NUMBER	NAME	SIGN
1	212720070131 1	Santhosh kumar P	Santhosh
2	212720070109 6	Prasanna Kumar R	P Kumar
3	212720070109 8	Preetham Raj M B	Preetham
4	212720070108 7	Naveen Kumar . S	Naveen Kumar S
5	212720070106 1	Keerthana . R	Keerthana
6	212720070106 4	Krithika Shree . D	Krithika
7	212720070107 A	Mansoor Bin Fashila . M	Fashila
8	212720070107 0	G. Hadhumitha	G. Hadhumitha
9	212720070106 6	Lakshana . S	
10	212720070106 8	Lokesh . A	A Lokesh
11	212720070105 2	K.L Jeevanesh	K.L Jeevanesh
12	212720070105 7	Karthikeyan . V	V Karthikeyan
13	212720070105 9	Karthi Varshini P.B	

ECE C-SEL [III YEAR] GUEST LECTURE ON VLSI PRODUCT I

	REG NO	NAME	SIGNATURE
	200701130	SRINIVASA VENKATAN	
2	200701139	R. Uma Maheswari	
3.	200701133	S. Srivarshini	
4	200701112	Sai Shakthi. S	S. Srivarshini
5	200701129	Sri Rekha. T	
6.	200701108	M. Roja	
7.	200701134	Subbiah Sundramy	
8	200701122	Sahidar. G	
9	200701142	Vasanth. P	
10.	200701147	Vishnu Praharth C.M	
11	200701144	Vijay K	
12	200701121	Soorya Narayanan V	
13	200701113	K. Sai Sundar	
14	200701317	S. Vignesh	S. Vicky
	200701116	Sakthiprasaad L	
16	200701100	Pachiappan. S	
17	200701120	Santosh R S.	
18	200701143	P. Vignesh	
19	200701128	Sreevatsav. E	
20	200701315	Sudharsanan. J	
21	200701149	V. Yogesh	
22	200701145	S. Vijayavarathy	
23	200701119	Santhosh Kumar R	

Organizing teams:

ECEA Comprising of:

President	: Mr. Guganesh R (IV Year ECE A)
Vice-President	: Mr. Sangeeth Kanna P (IV Year ECE C)
Secretary	: Mr. V.S.Prithiviraj (III Year ECE C)
Treasurer	: Ms. Sahana Balasubramaniam (III Year ECE C)
Executive Members	: Mr. Aakash (III Year ECE A)
	: Mr. Ganeshan H (III Year ECE A)
	: Mr. Pratosh Karthikeyan (III Year ECE B)
	: Mr. Pranav A (III Year ECE B)
	: Mr. Raswanth U (III Year ECE C)
	: Mr. Sowndhar R (III Year ECE C)
Joint Secretary	: Ms. Dharani A (II Year ECE A)
	: Mr. Parvesh R (II Year ECE B)
	: Mr. Umesh Anandh S (II Year ECE C)

IETE SF SVCE comprising of:

Chairman	: Mr. Sivasubramanian R
Vice Chairman	: Mr. Deepak Akash Raj T
Honorary Secretary	: Ms. Mrdulla V Naarayan (III Year ECE B)
Honorary Treasurer	: Ms. Lakshana Sasikumar (III Year ECE B)
Executive Members	: Mr. Arvindh G (III Year ECE A)
	: Mr. Avinash P (III Year ECE A)
	: Mr. Nirmal Kumar T K (III Year ECE B)
	:Mr. Nithish P (III Year ECE B)
	: Ms. Sakthi Maheswari M (III Year ECE C)
	:Mr. Shashidar G (III Year ECE)
Joint Secretary	: Mr. Ashish S (II Year ECE A)
	: Ms. Nivetha D R (II Year ECE B)
	: Mr. Tharun K R (II Year ECE C)

AIC Comprising of:

President	:Ms. Krishna Priya S (IV Year ECE B)
Vice-President	:Mr.Hari Prasad P (IV Year ECE A)
Secretary	:Mr.Sanjay Lokesh A M (III Year ECE C)
Joint Secretary	: Mr.Anish Krishnan (II Year ECE A)
	: Mr.Mahith I K (II Year ECE B)
	: Mr.Sharad L (II Year ECE C)
Mentors	:Mr. TRHari Prasanna (IV Year ECE A)
	: Mr.MKishore (IV Year ECE B)
	: Ms. Subashree (IV Year ECE C)
	:Mr.Ganeshan H (III Year ECE A)
	: Mr.Magesh S (III Year ECE B)
	: Mr.Rajeshvar M Swamy (III Year ECE C)
	: Ms. Snehalatha M (III Year ECE C)
	: Ms. Srivani M (III Year ECE C)
	: Ms. Vishnu Priya V T (III Year ECE C)

Dr.TJJeyaprabha
Associate Professor,ECE
ECEA, ISF,RAIC Coordinator

Mr. S Elangovan
Assistant Professor, ECE
ECEA, ISF,RAIC Coordinator

Dr.S Muthukumar
Professor & HOD–ECE

DATE:24/03/2023

REPORTBY:
Ms. S LAKSHANA
(Honorary Treasurer, IETE-SF,SVCE)