NEW HORIZON COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

" One-Day Workshop on VLSI Technologies: Design Techniques, Tools and Emerging Applications"

Date	: 24-10-2026
Duration	: 10.00 AM- 12.30 PM & 1:30 PM to 4:00 PM
Workshop topic	: **One-Day Workshop on VLSI Technologies: Design Techniques, Tools and Emerging Applications**
Number of Participants	: 66
Resource person	: Mr. Pramath Hegde, VLSI Engineer, Pantech Solutions India Pvt Ltd, Bengaluru.

Introduction

The workshop on "One-Day Workshop on VLSI Technologies: Design Techniques, Tools and Emerging Applications" was organized by the department of ECE, and IEEE student Chapter, NHCE, was conducted to provide participants with a comprehensive understanding of VLSI technologies, a core area of modern electronics. VLSI enables millions to billions of transistors to be integrated on a single chip, powering processors, memories, communication devices and a wide range of intelligent systems. The workshop aimed to equip attendees with the knowledge and skills to design, simulate and verify integrated circuits effectively.

Objectives

i) To understand the fundamentals of VLSI technology and the integrated circuit design flow.
ii) To learn the importance of VLSI design techniques in modern electronics.
iii) To explore the tools and techniques used in VLSI design, simulation and verification.
iv) To gain hands-on experience with VLSI design tools.
v) To understand emerging applications of VLSI technologies.

Workshop Overview

The workshop was divided into several topics, each focusing on different aspects of VLSI design. The workshop included lectures, demonstrations, and hands-on exercises. The key topics covered were:

1 Introduction to VLSI Technologies
2 CMOS Fundamentals and Digital Design Techniques
3 HDL Coding, Simulation and Synthesis
4 Physical Design and Timing Considerations
5 Hands-on Session
6 Tools, Software and Emerging Applications

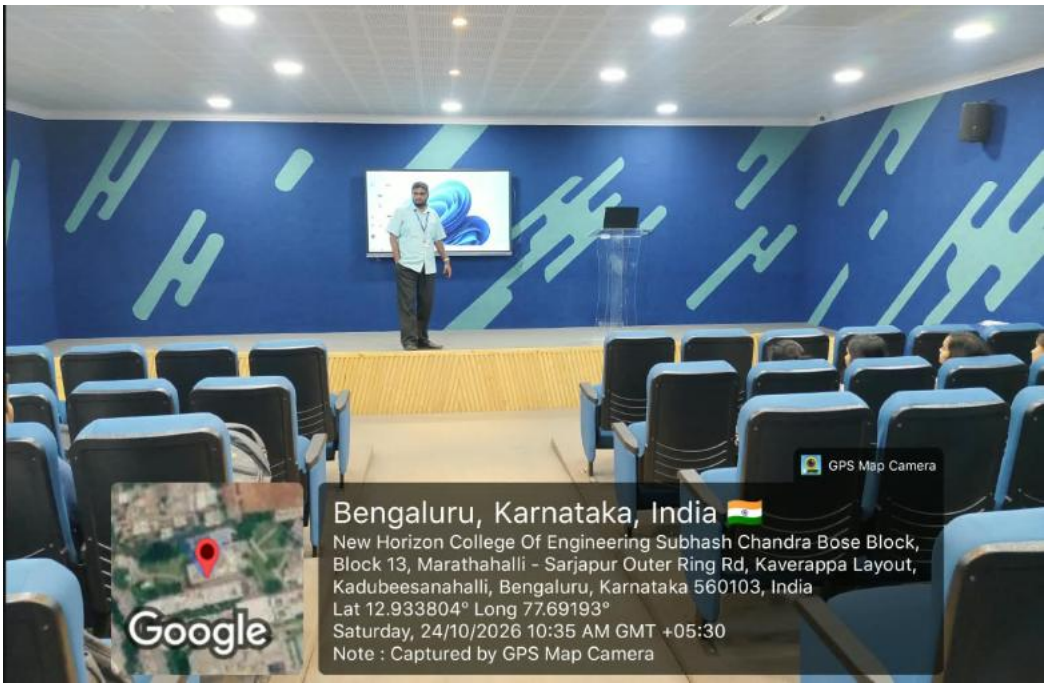
Outcomes

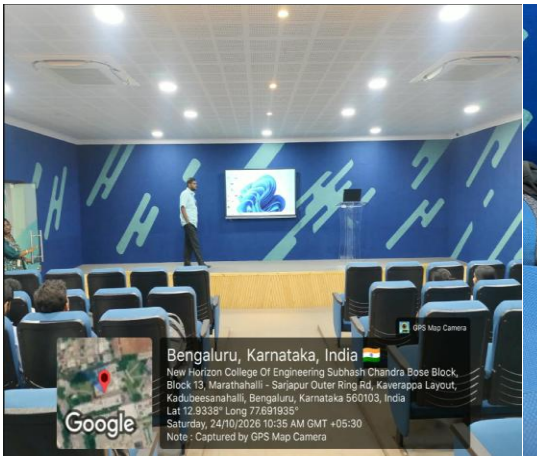
The workshop successfully achieved its objectives. Participants gained:

i) A solid understanding of the fundamentals and design flow of VLSI.
ii) Practical experience with VLSI design tools and techniques.
iii) The ability to design, simulate and verify basic digital circuits.
iv) Knowledge of emerging applications and trends in VLSI technologies.

Conclusion

The "One-Day Workshop on VLSI Technologies: Design Techniques, Tools and Emerging Applications" was a valuable learning experience for all attendees. It provided a strong foundation in VLSI technologies and prepared participants to apply these skills in their academic projects and future engineering careers. The workshop's success highlighted the importance of continuous learning and hands-on practice in the ever-evolving field of VLSI design.







FACULTY CORDINATOR HOD-ECE

MS Baby Chithra R

CAS
IEEE CIRCUITS AND SYSTEMS SOCIETY
NHCE STUDENT BRANCH CHAPTER

NEW HORIZON
COLLEGE OF ENGINEERING

IEEE
NHCE
STUDENT BRANCH

One-Day Workshop

VLSI Technologies: Design Techniques, Tools and Emerging Applications

24th October 2026

10:00 AM - 12:30 PM
01:30 PM - 04:00 PM

MBA Seminar Hall

3rd Semester Students



Mr. Pramath Hegde
VLSI Engineer
Pantech Solutions India Pvt Ltd

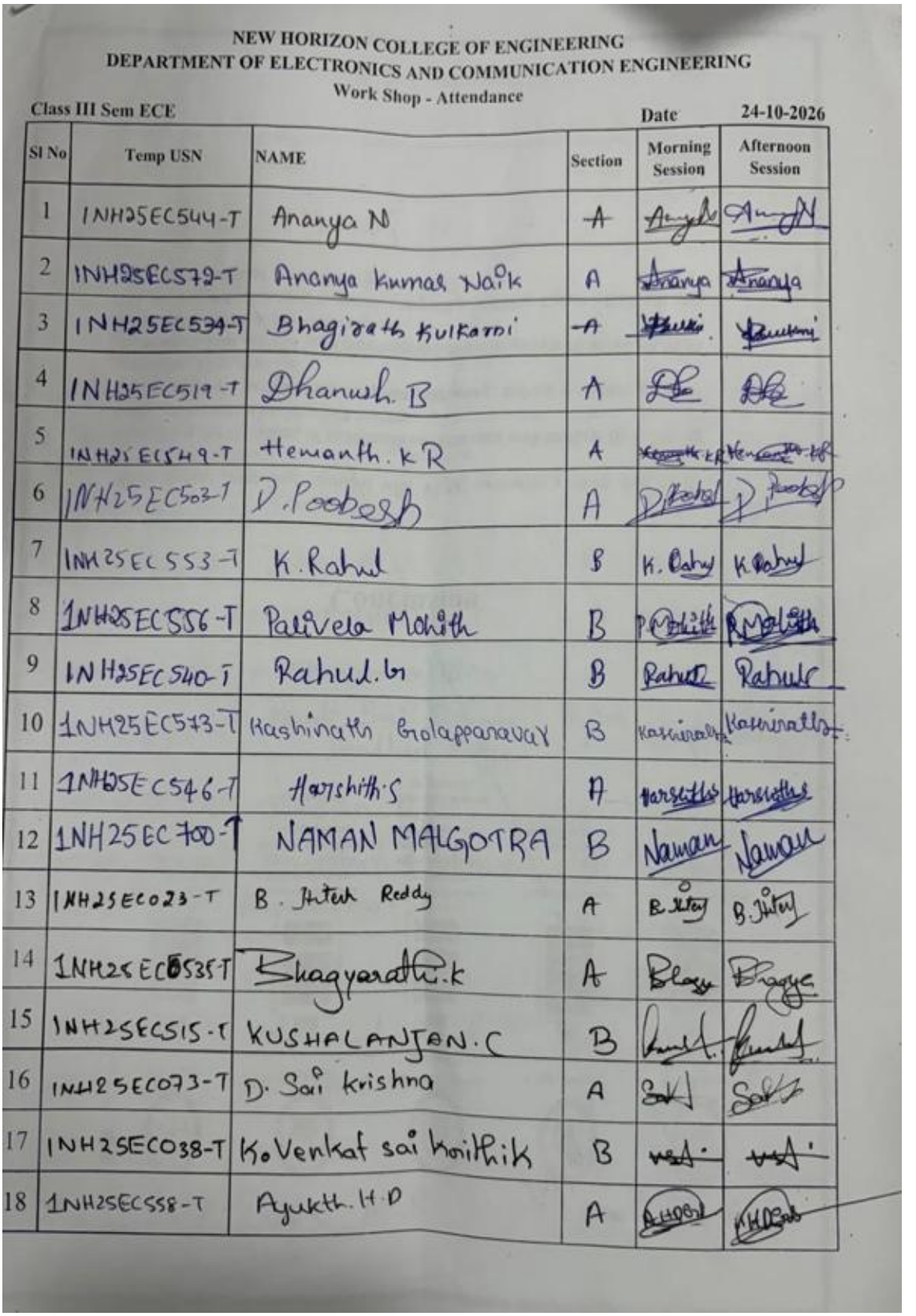
Faculty Coordinator
Ms. Baby Chithra R

Convenor
Dr. Manju Devi
HoD - ECE

Principal
Dr. Manjunatha

Organised by
Department of Electronics and Communication Engineering

Students' Attendance



NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Work Shop - Attendance

Class III Sem ECE — Date 24-10-2026

Sl No	Temp USN	NAME	Section	Morning Session	Afternoon Session
1	1NH25EC544-T	Ananya N	A		
2	1NH25EC572-T	Ananya kumar Naik	A		
3	1NH25EC534-T	Bhagirath Kulkarni	A		
4	1NH25EC519-T	Dhanush. B	A		
5	1NH25EC549-T	Hemanth. kR	A		
6	1NH25EC503-T	D. Poobesh	A		
7	1NH25EC553-T	K. Rahul	B		
8	1NH25EC556-T	Palivela Mohith	B		
9	1NH25EC540-T	Rahul. G	B		
10	1NH25EC573-T	Kashinath Golappanavar	B		
11	1NH25EC546-T	Harshith. S	A		
12	1NH25EC700-T	NAMAN MALGOTRA	B		
13	1NH25EC023-T	B. Jitesh Reddy	A		
14	1NH25EC535-T	Bhagyarathi.k	A		
15	1NH25EC515-T	KUSHALANJAN.C	B		
16	1NH25EC073-T	D. Sai krishna	A		
17	1NH25EC038-T	K. Venkat sai koithik	B		
18	1NH25EC558-T	Ayukth. H.D	A		

Work Shop - Attendance

Class III Sem ECE — Date 24-10-2026

Sl No	Temp USN	NAME	Section	Morning Session	Afternoon Session
19	INH25EC5427	Manoj . N	B	Manoj.N	Manoj.N
20	1NH25EC574-T	Sai Viswas	C		
21	INH25EC579-T	Dhanush B K.	A		
22	1NH25EC569-T	Prajwal Danyal	B		
23	1NH25EC807-T	Shashank Gowda	C		
24	INH25EC537-T	Basavaraj-S	A		
25	INH25EC576-T	Bharath U	A		
26	INH25EC554-T	NITHYA SHRI · A · T ·	B		
27	INH25EC585-T	Mallikarjuna . melderi	B		
28	INH26CS260-T	Pandi Sai Vishnu Vardhan Raju	1 Year F		
29	INH26EC808-T	Darshan · N-S	A		
30	INH26EC816-T	Darshan S Shinde	A		
31	INH26EC814-T	Keshikumar · A·U	A		
32	INH26EC810-T	Chandan . V.	A		
33	INH26EC804-T	Mohammed Zaid	A		
34	INH26EC805-T	VISMITA S. PATIL	C		
35	1NH25EC507-T	Ambika	A	Ambika	Ambika
36	1NH25EC514-T	Deepa M.B.	A		

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Sl No	Temp USN	NAME	Section	Morning Session	Afternoon Session
37	1NH25EC548-T	Anusha . N	A		
38	1NH26EC811-T	Jeevana	A		
39	1NH25EC538-T	YUVARANI J	C		
40	1NH26EC042-T	Yashas. Sajjan	C		
41	1NH25EC555-T	Sagar. dodamani	C		
42	1NH25EC085-T	Yoshita. J	C		
43	1NH25EC505-T	Shreya Reddy	C		
44	1NH25EC538-T	Yashwanth. D.S	C		
45	1NH25EC526-T	Yashwanth GP	C		
46	1NH25EC029-T	T. ADITYA RAM	C		
47	1NH25EC081-T	Siddhant Jayesh Golatkar	C		
48	1NH25EC043-T	Shubham Priyadarsi	C		
49	1N25EC563-T	Spoorti Savadatti	C		
50	1NH25EC539-T	Suchaitha. R	C		
51	1NH25EC567-T	Shreyas. sajjan	C		
52	1NH25EC575-T	Vivek. B. G	C		
53	1NH25EC002-T	Prakyath Gowda S	B		

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Work Shop - Attendance

lass III Sem ECE — Date 24-10-2026

No	Temp USN	NAME	Section	Morning Session	Afternoon Session
54	INH25EC568-T	Parasa Surya Vaishnavi	B	Vaishnavi	Vaishnavi
55	INH25EC577-T	Srinivas.N	C	Srinivas	Srinivas
56	INH25EC513-T	Joe Paul Francis	B	Joe Paul	Joe Paul
57	INH26EC809-T	Theerthan Krishna K	C	Theerthan Krishna	Theerthan Krishna
58	INH26EC815-T	UMESH.M	C		
59	INH25EC582-T	SYEDMOIN	C		
60	INH25EC570-T	SURYA SUBIN SHANKAR	C	Surya	Surya
61	INH25EC543-T	Mayur Prakash Chatavkar	B	Mayur	Mayur
62	INH26EC813-T	Rakshitha R S	B		
63	INH26EC806-T	Soojanyo.S	B		
64	INH26EC802-T	Meghana-R	B	Megh	Megh
65	INH25EC067-T	Navaneeth Krishnan P	B	Navaneeth	Navaneeth
66	INH25EC560-T	Jahnavi Reddy K	B	Jahnavi	Jahnavi
67					
68					
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70					
71					