

<b>Name of the Event</b>	Expert Lecture
<b>Date</b>	04-04-2024
<b>Beneficiary</b>	IV SEMESTER STUDENTS
<b>Faculty Coordinator</b>	Dr.M.Jayanthi, Dr.P.Sudhakaran
<b>Write up</b>	<p>The Department of Electronics and Communication Engineering organized an expert lecture on "<b>AI for Electronic Design Automation</b>" on April 4<sup>th</sup> 2025. The session was delivered by <b>Mr. Alope Das</b>, Founder of <i>Lab and Lectures</i> and Chair of IEEE CASS Bangalore.</p> <p>The expert talk aimed to provide valuable insights into the transformative role of <b>Artificial Intelligence (AI)</b> in <b>Electronic Design Automation (EDA)</b> and its significant impact on modern semiconductor design.</p> <p><b>Key Highlights of the Lecture:</b></p> <p>Mr. Alope Das elaborated on the integration of AI in EDA tools, emphasizing the following key areas:</p> <ol style="list-style-type: none"> <li><b>Automation in Chip Design:</b> AI-driven algorithms are revolutionizing traditional chip design processes by enhancing design accuracy, reducing errors, and improving overall efficiency.</li> <li><b>EDA Tools with AI Capabilities:</b> Advanced tools such as <i>Synopsys DSO.ai</i>, <i>Cadence Cerebrus</i>, and <i>Siemens AI-powered tools</i> are reshaping digital IC design, Layout Automation, and Verification processes.</li> <li><b>AI for Physical Design Optimization:</b> Machine learning models are being utilized to optimize Placement, Routing, and Timing Closure, significantly reducing design cycle times.</li> <li><b>Fault Prediction and Debugging:</b> AI enables early Fault Detection, Predictive Maintenance, and Automated Debugging, thereby enhancing chip reliability.</li> <li><b>Emerging Job Roles in AI-Based Chip Design:</b> <ul style="list-style-type: none"> <li><b>AI/ML Engineer in EDA:</b> Develops AI models for semiconductor design.</li> </ul> </li> </ol>

	<ul style="list-style-type: none"><li>○ <b>EDA Tool Developer:</b> Works on AI-powered Algorithms for layout optimization and circuit simulation.</li><li>○ <b>Design Verification Engineer (AI-Enhanced):</b> Utilizes AI for automated testing and verification.</li><li>○ <b>Hardware-Software Co-Design Engineer:</b> Integrates AI techniques with hardware acceleration.</li><li>○ <b>AI Architect for the Semiconductor Industry:</b> Designs AI frameworks for chip manufacturing.</li></ul> <p>The session was attended by <b>121 students from the 4<sup>th</sup> Semester</b>, who actively participated in discussions on the future of AI in VLSI and the semiconductor industry. The lecture provided valuable insights into career opportunities and technological advancements in AI-driven chip design.</p>
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Department of Electronics and Communication Engineering

Expert Lecture

# AI for Electronic Design Automation



04 April, 2025



2:00 PM to 4:00 PM



Falconry Seminar Hall



4<sup>th</sup> Semester



**Alope Das**

Founder - Lab and Lectures,  
Chair, IEEE CASS Bangalore

Faculty Coordinators

**Dr. M. Jayanthi**

Associate Professor - ECE

**Dr. P. Sudhakiran**

Associate Professor - ECE

Convenor

**Dr. Aravinda K**

Professor & HOD - ECE

Photos from the Expert Lecture











Attendance





# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## EXPERT LECTURE

Expert Lecture Attendance

Date: 04-04-2025

Time: 2 P.M. to 4 P.M.

Sl. No.	USN	NAME OF STUDENT	SIGNATURE
1	INH23EC146	S.N.V. Dhanakanth Reddy	
2	INH23EC180	Vikramaditya	
3	INH23EC086	K. Vinay Kumar Raju	
4	INH23EC012	Atul Chandra Eashanvi	
5	INH23EC114	PAVITHRA S. P.	
6	INH23EC124	R. G. Adithyana	
7	INH23EC090	L. Dhanush Kumar Reddy	
8	INH23EC112	P. Sainithin	
9	INH24EC411	Rahul .T	
10	INH23EC099	Nawaz .M	
11	INH24EC410	Pooni Telu	
12	INH23EC096	Mand Shankar G	
13	INH24EC408	Natas ha-S	
14	INH24EC414	Shivam .Puneekar	
15	INH24EC401	Darshan .N.B	
16	INH24EC400	Darshan .G	
17	INH23EC117	PRAJWAL L	
18	INH23EC107	Noel David	
19	INH23EC074	Jnanaprabhu .HR	
20	INH23EC185	Yaswanth V. Musthy	
21	INH23EC169	Thiruvikram Karthikeyan	
22	INH23EC173	V. NAVEEN	
23	INH23EC053	G- AKASH RAJ	



24.	INH23EC054	Shreyas P	Shreyas P
25.	INH23EC130	Rajesh M.S	Rajesh
<del>26.</del>	<del>INH24EC403</del> <del>Dhanush</del>	<del>Dhanush C</del>	<del>Shreyas</del>
27.	INH23EC020	Asum B.S.	Asum
28.	INH23EC093	M Sukesh P Kamath	Sukesh
29.	INH23EC1067	Harshel S.T	Harshel
30.	INH23EC111	Parinith M.D	Parinith
31.	INH23EC091	Lokesh M	Lokesh
32.	INH23EC073	J.B.Mohan Vikas.	Mohan
33.	INH23EC029	Basavaraj. A.L	Bas
34.	INH23EC071	Tagadeesh. B-H	Tagadeesh
35.	INH23EC162	Sumanth. V. Nayak	Sumanth
36.	INH23EC189	Yuvraj. R.B	Yuvraj
37.	INH23EC007	Aditya. Rithi	Aditya
38.	INH23EC187	Yashwanth. TG	Yashwanth
39.	INH23EC005	Adithya. Kamithkar	Adithya
<del>40.</del>	<del>INH23EC051</del>	<del>Dhanya. K.M</del>	<del>Dhanya</del>
41.	INH23EC019	Arpitha M	Arpitha
42.	INH23EC126	Vaibhav R	Vaibhav
43.	INH23EC144	Sathvik Naidu	Sathvik
44.	INH23EC128	Rahul Varadharaj	Rahul
45.	INH23EC003	Aaron James	Aaron
46.	INH23EC015	Anshul Tiwary	Anshul
47.	INH23EC048	Deepesh. M	Deepesh
48.	INH23EC110	P.S. LOCHAN	Lochan
49.	INH23EC001	A B DEEPEST	Abhishek
50.	INH24EC400	Darshan G	Darshan
51.	INH24EC401	Darshan NB	Darshan
52.	<del>INH23EC105</del>	Narendra. J	Narendra
53.	INH24EC042	Chaitanya Asif	Chaitanya
<del>54.</del>	<del>INH23EC057</del>	<del>Gali Shudashiva Reddy</del>	<del>Gali</del>

55	INH23EC160	Pawan Kumar	<del>Levar</del>
56	INH23EC120	PRATHIK.H	<del>Prathik</del>
57	INH23EC077	VISHNU	Vishnu
58	INH23EC063	Guru Kiran	<del>Gururaj</del>
59	INH23EC176	Vamsi Krishna	Vamsi
60	INH23EC163	harshavardham	<del>har</del>
61	INH23EC178	Vaerolham PNP	<del>Vaerolham</del>
62	INH23EC167	S. Jafer Vali	<del>S. Jafer</del>
63	INH23EC158	S. Charan	Charan
64	INH23EC179	M. Vamsi Krishna	<del>Vamsi</del>
65	INH23EC134	Sai Vamsi	<del>Sai Vamsi</del>
66	INH23EC140	Samanth Babazulki	<del>Samanth</del>
67	INH23EC181	Vinayaka	<del>Vinayaka</del>
68	INH23EC179	V. Pras. Jain. P	V. Pras. Jain
69	INH23EC061	Chokolk S	Chokolk
70	INH23EC084	Kishore H	<del>Kishore</del>
71	INH23EC078	Venkatesh	Venkat
72	INH23EC104	Rajawendra	Rajaw
73	INH23EC101	M. P. H. Raj E	<del>M. P. H. Raj E</del>
74	INH23EC186	Yashwanth. M	Yashwanth. M
75	INH23EC141	Sankarsham	Sankarsh
76	INH23EC164	Shravanth.	<del>Shravanth</del>
77	INH23EC159	Som shekar	<del>Som shekar</del>
78	INH23EC149	Shashank	<del>Shashank</del>
79	INH23EC139	Saish	Saish
80	INH23EC137	Dayan K.O	Dayan K.O
81	INH23EC088	Krupa L.P	Krupa L.P
82	INH23EC165	Sathvika. T	<del>Sathvika</del>
83	INH23EC172	V. Manasa	<del>V. Manasa</del>
84	INH23EC183	Vindhya. G	<del>Vindhya</del>
85	INH23EC129	Rajeev. G	Rajeev



86	INH23EC168	Thanishk Nanda	Thanishk
87	INH23EC087	Akhil	Akhil
88	INH23EC072	Bhanya Shree J.R	Bhanya
89	INH23EC167	Thanushree	Thanushree
90	INH23EC170	Mukesh Murali	Mukesh
91	INH23EC064	Haripriya	D. Haripriya
92	INH23EC152	Shreya S	Shreya S
93	INH23EC078	Venkatesh Reddy	Venka
94	INH23EC058	G. Shiva Shankar Reddy	Shiva
95	INH23EC153	Shreya S	Shreya S
96	INH23EC092	Gautam	Gautam
97	INH23EC070	T.J. Akshitha	Akshitha
98	INH23EC142	Samridhi Poojary	Samridhi
99	INH23EC156	Simham Ponnammma M.S.	Simham
100	INH23EC138	Sahana V	Sahana V
101	INH23EC183	Devona Sherine	Devona
102	INH23EC035	C.Hitha Amutha	Hitha
103	INH23EC030	Bhoomika H.P.	Bhoomika
104	INH23EC031	Bhoomika SK	Bhoomika
105	INH23EC023	Ashwini P	Ashwini
106	INH23EC177	Vandana. H.S.	Vandana
107	INH23EC166	Tejaswini Badami	Tejaswini
108	INH23EC097	Manya. M	Manya. M
109	INH23EC018	Arpita Kondaguri	Arpita
110	INH23EC068	HARSHITHA C.R	Harshitha
111	INH23EC135	Suchitha. S	Suchitha
112	INH23EC051	Danya.	Danya
113	INH23EC066	Hasini. prabha P	Hasini
114	INH23EC094	Madhumitha K	Madhumitha
115	INH23EC054	P. Slekha	P. Slekha
116	INH23EC039	Chandrika	Chandrika





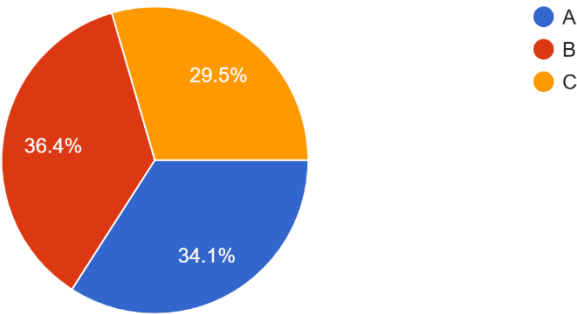
# Feedback

Abhinav kumar reddy.v										
	A	B	C	D	E	F	G	H	I	J
1	Timestamp	Name of student	USN:*	Email ID*	Section*	How interactive	Any suggestions to improve the session?*			
2	2025/04/04 3:01:51 PM GMT+5:30	Darshan Infanto	1NH23EC046	darshaninfanto@A		5	Null			
3	2025/04/04 3:04:29 PM GMT+5:30	Sasi chandana	1NH23EC028	Sasichandanab5@A		5	No			
4	2025/04/04 3:04:44 PM GMT+5:30	G SLEKHA	1NH23EC054	slasnow2131@gr A		4	Nil			
5	2025/04/04 3:05:42 PM GMT+5:30	Darshan Infanto	1NH23EC046	darshaninfanto@A		5	Null			
6	2025/04/04 3:06:17 PM GMT+5:30	Parinith M D	1nh233ec111	paridrag123@gm B		3	.			
7	2025/04/04 3:06:37 PM GMT+5:30	Abhinav kumar reddy.v	1NH23EC184	abhibunny0714@C		4	Nothing			
8	2025/04/04 3:07:02 PM GMT+5:30	Harshal s Jogdankar	1NH23EC067	harshaljogdanka B		5				
9	2025/04/04 3:08:57 PM GMT+5:30	Basavaraj A L	1NH23EC029	limbennavarbasi B		4	No			
10	2025/04/04 3:10:01 PM GMT+5:30	Lokesh M	1NH2EC091	mlakesh.172005@B		2	.			
11	2025/04/04 3:10:27 PM GMT+5:30	TELKAR THANU SREE	1NH23EC167	thanusree17200@C		5	No			
12	2025/04/04 3:10:39 PM GMT+5:30	R G ADITHIYAA	1NH23EC124	rgadithiyaa56@g C		4	Nil			
13	2025/04/04 3:11:18 PM GMT+5:30	Shreyas P	1NH23EC154	shreyas973resili@C		4	NA			
14	2025/04/04 3:11:28 PM GMT+5:30	Mohan vikas	1NH23EC073	mohanvikas2005 B		5	.			
15	2025/04/04 3:11:40 PM GMT+5:30	JALAPPAGARI BOGGU BHAVY	1NH23EC072	bhavyasribhavi2 B		5	No			
16	2025/04/04 3:11:50 PM GMT+5:30	Lingam Dhanush Kumar Reddy	1NH23EC090	lingamdhanush0 B		5	Nothing.			
17	2025/04/04 3:12:04 PM GMT+5:30	Venkatesh Reddy	1NH23EC078	Venkateshkanik@B		5	Nothing itâ€™s very good session			
18	2025/04/04 3:12:32 PM GMT+5:30	K.AKHIKESWAR RAJU	1NH23EC087	konetiakhil21@g B		5	No			
19	2025/04/04 3:13:14 PM GMT+5:30	PASALA SAINITHIN	1NH23EC112	sainithin1708@g B		5	Nothing to improve			
20	2025/04/04 3:14:21 PM GMT+5:30	Inuganti Lakshmi Akshitha	1NH23EC070	akshithainuganti B		3	NA			
21	2025/04/04 3:15:13 PM GMT+5:30	P S LOCHAN	1NH23EC110	pokkalilochan@g B		4	Knowledge wise interesting but pacing could			
22	2025/04/04 3:16:27 PM GMT+5:30	ASHWAL A U	1NH23EC022	auashwal@gmail A		5	.			
23	2025/04/04 3:17:43 PM GMT+5:30	Sannidhi	1NH23EC142	sannidhi000iary C		3	Nooe			

	A	B	C	D	E	F	G	H	I	J
25	2025/04/04 3:20:19 PM GMT+5:30	Anush Manikanda Raj	1NH23EC075	anushmanikande@B		4	Goof			
26	2025/04/04 3:20:51 PM GMT+5:30	Sinchan Ponnamma N S	1NH23EC156	sinchanponnam@C		3	Nop			
27	2025/04/04 3:21:37 PM GMT+5:30	Tejaswini badami	1NH23EC166	tejaswinibadami@C		5	No			
28	2025/04/04 3:21:47 PM GMT+5:30	Gautam Reddy	1NH23EC092	venkat4@gmail. B		5	Nope			
29	2025/04/04 3:28:11 PM GMT+5:30	Akshaya H M	1NH23EC011	akshaya4882@gr A		3	N/A			
30	2025/04/04 3:34:53 PM GMT+5:30	SUNKARA HARSHAVARDHAN	1NH23EC163	harshasyam98@j C		5	No			
31	2025/04/04 3:54:00 PM GMT+5:30	Chandrika Nyamagoud	1NH23EC039	nnyamagoudcha A		4	No			
32	2025/04/04 4:07:46 PM GMT+5:30	ADITYA RITTI	1NH23EC007	aditya r2003@gm A		3	None			
33	2025/04/04 4:44:37 PM GMT+5:30	Vamsi Krishna Nannuri	1NH23EC176	vamsikrishnanan@C		4	No			
34	2025/04/04 4:52:06 PM GMT+5:30	HARSHITHA C R	1NH23EC068	harshithacr10@g B		5	The session by Alope sir was great, but there			
35	2025/04/04 4:54:48 PM GMT+5:30	Sankarshan prabhu	1NH23EC141	sankarshanprab@C		5	No ,it was good			
36	2025/04/04 5:06:28 PM GMT+5:30	Manya M	1NH23EC097	manyagowda005 B		5	The session was great and really informative.			
37	2025/04/04 5:09:05 PM GMT+5:30	Vardhan PNP	1NH23EC178	pnpvardhan3105 C		4	N/A			
38	2025/04/04 5:23:00 PM GMT+5:30	Arpitha M	1NH23EC019	arpi78313@gmai A		4	All good			
39	2025/04/04 5:23:30 PM GMT+5:30	Arun B S	1NH23EC020	arunbs2005@gm A		5				
40	2025/04/04 5:39:20 PM GMT+5:30	Adithya Kamithkar	1NH23EC005	adityakamitkar.2 A		5	Nothing			
41	2025/04/04 5:57:32 PM GMT+5:30	Dhanya KM	1NH23EC051	dhanyakm431@g A		4	No suggestions			
42	2025/04/04 6:00:24 PM GMT+5:30	Devakanth reddy Segireddy	1NH23EC146	devakanthreddy C		3	Nothing			
43	2025/04/04 6:01:23 PM GMT+5:30	Disha S	1NH23EC052	dishasetty653@g A		4	No			
44	2025/04/04 8:57:24 PM GMT+5:30	Arpita kondaguri	1NH23EC018	arpitakondaguri@A		5	We need a more interaction with industry ex			
45	2025/04/04 9:09:47 PM GMT+5:30	Thiruvikram Karthikeyan	1NH23EC169	Kthiruvikram@gj C		4	No suggestions			

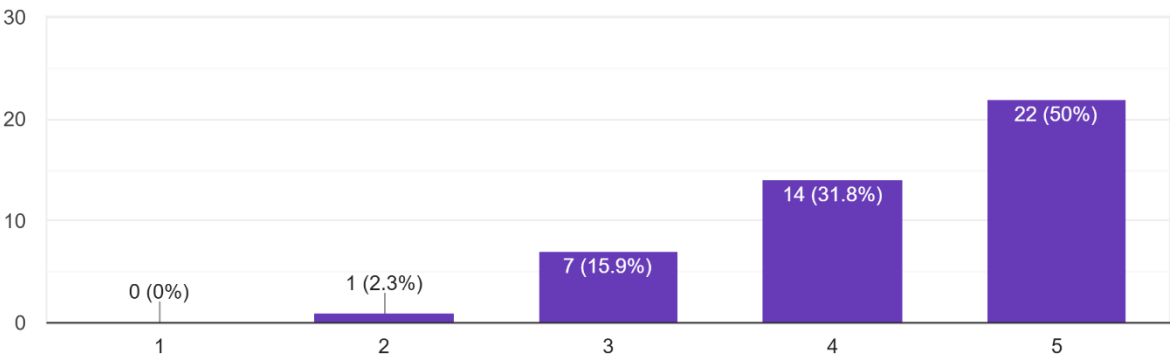
Section\*

44 responses



How interactive and engaging was the session?\*

44 responses



Faculty Coordinator

HOD-ECE

