



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 AND COMMUNICATION ENGINEERING

30/01/2020

GUEST LECTURE

This is to inform all IV semester students of ECE that a guest lecture is arranged on 03/02/2020 at Falconry Seminar Hall between 10:00am to 12:00 pm.

● Topic to be delivered : FPGA
Name of the Speaker : Mr. GalphadePrafulla
Designation : Senior Principal Program Manager
Company : Cadence Design Systems

Respective course teachers are hereby informed to be present at Falconry Seminar Hall during the lecture.

All the faculty members are invited to attend the same without affecting the regular classes.


HOD-ECE

Biodata

PrafullaGalphade

Mr. PrafullaGalphade is working as 'Senior Principal Program Manager' at Cadence design systems (India) Pvt. limited. At his previous company ,Invecas, he led Memory Design Team and managed Memory Program at Bangalore Design center. He has 17+ years of experience in FPGA, Analog & Memory Design. His area of interest is CAD, Scripting and Design Automation.

Prafulla has done B.E. in Electronics Engineering, MBA, both from Nagpur University and M. Tech from SardarVallabhbhai National Institute of Technology, Surat. He started his career as coordinator at C-DAC and later joined the Industry. He has worked for Infineon Technologies, Emerging Memory Technologies and Intel. He is still in love with teaching, and has delivered lectures in many training programs and workshops.

NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
IV Sem Attendance , Guest Lecture on 3 Feb 2020 , Falconry Hall

SL.No	USN	NAME	Signature
1	1NH17EC140	SATYA MANOJ BASINA AGASTYA (Rejoinee)	
2	1NH18EC001	ABHIRAG S	<i>Abhirag S</i>
3	1NH18EC002	AISHWARYA M HALLI	<i>Aishu</i>
4	1NH18EC003	AISHWARYA NAGRAS	<i>Aishu</i>
5	1NH18EC004	AKILESH K	<i>Akilesh</i>
6	1NH18EC005	AMITH SABU	<i>Amith</i>
7	1NH18EC006	ANAND CHAITANYA.V	<i>AC</i>
8	1NH18EC007	ANIL KUMAR K M	<i>Anil</i>
9	1NH18EC008	ANJALI R	<i>Anjali R</i>
10	1NH18EC009	APOORVA R	<i>Apoorva</i>
11	1NH18EC011	APPOLLA MOUNEESH KUMAR	<i>Mounesh</i>
12	1NH18EC012	ARAVAPALLI NAGA VENKATA SAI MANIDEEP	<i>Manideep</i>
13	1NH18EC013	ARNAB SANGAM	<i>Arnav</i>
14	1NH18EC014	ATHIKARI GANESH	<i>Ganesh</i>
15	1NH18EC015	AVINASH U GYANAGOUDRA	<i>Avinash</i>
16	1NH18EC016	AYAAN KHAN S	<i>Ayaan</i>
17	1NH18EC017	BADA BHAVANI	<i>Bhava</i>
18	1NH18EC018	BALAJI A	<i>Balaji</i>
19	1NH18EC019	BANDLA SAIKUMAR	<i>Saikumar</i>
20	1NH18EC020	BUDIDETI GOWTHAMI	<i>Gowthami</i>
21	1NH18EC021	MADALA CHAITANYA GOPINADH	<i>Chaitanya</i>
22	1NH18EC022	CHALLA KUNDANA SAI	<i>C. Kundana Sai</i>
23	1NH18EC023	CHANDANA C	<i>Chandana</i>
24	1NH18EC024	CHANDRA MOHAN P	<i>P. Chandra</i>
25	1NH18EC025	CHANDRA ROHITH CHOUDARY	<i>Rohith</i>
26	1NH18EC026	CHITTE ABHINAYKUMARREDDY	<i>Abhinav</i>
27	1NH18EC027	CHOKKAM PREETHI KIRAN	<i>Preethi</i>
28	1NH18EC028	DASARI PRANEETH KUMAR	<i>Praneeth</i>
29	1NH18EC029	DHAMINIS	<i>Dhamini</i>
30	1NH18EC030	DILIP M	<i>Dilip</i>
31	1NH18EC031	ERIC JOE	<i>Eric Joe</i>
32	1NH18EC032	GOPAVARAM NITHISH KUMAR	<i>Nithish</i>
33	1NH18EC033	GADI SAI SANDEEP	<i>Sai Sandeep</i>
34	1NH18EC034	GANDAVARAPU BHAVADEEP REDDY	<i>Bhava</i>
35	1NH18EC035	GANGANAPALLI VISHNU VARDHAN	<i>Vishnu</i>
36	1NH18EC036	GELLI SARANYA	<i>Saranya</i>
37	1NH18EC037	GOKARAJU RESHMA BHAVANI	<i>Reshma</i>
38	1NH18EC038	GOKARAJU.VENKATA VAMSI KRISHNA	<i>Vamsi</i>
39	1NH18EC039	GOURAV D H	<i>Gourav</i>
40	1NH18EC040	GOVINDRAJ C S	<i>Govind</i>
41	1NH18EC041	INDRAJITH K R	<i>Indrajith</i>
42	1NH18EC042	K C ANKITH	<i>Ankith</i>
43	1NH18EC043	K HARSHA VARDHAN	<i>Harsha</i>
44	1NH18EC045	KETHU PUNEETH KUMAR REDDY	<i>Puneeth</i>
45	1NH18EC046	K SANDEEP KUMAR REDDY	<i>Sandeep</i>
46	1NH18EC047	KAMALA VENNELA VASIREDDY	<i>Vasireddy</i>
47	1NH18EC048	KAMINENI CHANDRIKA	<i>Chandrika</i>

48	1NH18EC049	KANDRU HARSHITHA	Kandru Harshitha
49	1NH18EC050	KANKANALA HEMANTH	Kankanala Hemant
50	1NH18EC051	KASSETY ABISHEKA VARDHAN	K. Abhisheka
51	1NH18EC052	KAVIN ANBALAGAN	Kavin
52	1NH18EC053	KEERTHANA S	Keerthana S
53	1NH18EC054	KONANKI VAMSI KRISHNA	Konanki Vamsi Krishna
54	1NH18EC055	KORAPATI REDDY YAMINI	Korapati Reddy Yamini
55	1NH18EC056	KUCHU SAIPRADEEP	Kuchu Saipradeep
56	1NH18EC057	KUCHU SOMASEKHAR	Kuchu Somasekhara
57	1NH18EC058	KULDEEP SINGH A	Kuldeep Singh A
58	1NH18EC059	KUMMARI SANKAR SAI	Kummari Sankar Sai
59	1NH18EC060	KURAPATI SAI SWATHI	Kurapati Sai Swathi
60	1NH18EC127	KAKUMANU PRANEETHA	Kakumanu Praneetha
61	1NH18EC133	BHARATH RAJ P	Bharath Raj P
62	1NH18EC135	GREESHMA M N	Greeshma M N
63	1NH18EC136	ABHISHEK SINGH RATHORE	Abhishek Singh Rathore
64	1NH18EC140	ANUSHA K	Anusha K
65	1NH18EC144	GUMMI REDDY MANOJ KUMAR REDDY	Gummi Reddy Manoj Kumar Reddy
66	1NH18EC145	DINESH G	Dinesh G
67	1NH19EC400	Anusha S	Anusha S
68	1NH19EC402	Farzee Sultana	Farzee Sultana
69	1NH19EC407	Vidya H N	Vidya H N
70	1NH19EC408	Arshitha P Reddy	Arshitha P Reddy
71	1NH19EC409	Lakshmipathi G N	Lakshmipathi G N
72	1NH18EC061	LOKESH Y	Lokesh Y
73	1NH18EC062	ROHIT M	Rohit M
74	1NH18EC063	M SUCHITH	M Suchith
75	1NH18EC064	MADALA BHANU PRAKASH	Madala Bhanu Prakash
76	1NH18EC065	MALIKIREDDY CHAITANYA KUMAR REDDY	Malikireddy Chaitanya Kumar Reddy
77	1NH18EC066	MANISH M	Manish M
78	1NH18EC067	MANISHA PREM	Manisha Prem
79	1NH18EC068	MANYAM SAIHEMANTH REDDY	Manyam Saihemant Reddy
80	1NH18EC069	MARELLASURESH	Marellasuresh
81	1NH18EC070	MATAM RISHI	Matam Rishi
82	1NH18EC071	MELITA ROSE G	Melita Rose G
83	1NH18EC072	NADENDLA LAKSHMI PRASANNA	Nadendla Lakshmi Prasanna
84	1NH18EC073	NANDANKUMAR K	Nandankumar K
85	1NH18EC074	NAVODIT TIWARI	Navodit Tiwari
86	1NH18EC075	NAVYA M K	Navya M K
87	1NH18EC076	NEERUMALLA.LAKSHMI SAI MANIKANTA	Neerumalla Lakshmi Sai Manikanta
88	1NH18EC077	NEETHA NATARAJ	Neetha Nataraj
89	1NH18EC078	NIDHISHREE KAWRI	Nidhishree Kawri
90	1NH18EC079	NIKITHA M S	Nikitha M S
91	1NH18EC080	NIVEDITA SALIMATH	Nivedita Salimath
92	1NH18EC081	PENDYALA MANIKANTA	Pendyala Manikanta
93	1NH18EC082	PONNAGANTI NAVEEN KRISHNA	Ponnaganti Naveen Krishna
94	1NH18EC083	PAPANABOINA VAMSI KRISHNA	Papanaboina Vamsi Krishna
95	1NH18EC084	PEDDAIAHGARI SREE RAJ	Peddaiahgari Sree Raj
96	1NH18EC085	PEDDISSETTY MAHIDHAR KUMAR	Peddisetty Mahidhar Kumar
97	1NH18EC086	POORNIMA.R.M	Poornima R.M
98	1NH18EC087	PRAMOD AITHAL M.C	Pramod Aithal M.C
99	1NH18EC088	PRASHANTH.B	Prashanth B
100	1NH18EC089	R ANUSHA	R Anusha
101	1NH18EC090	RAHUL M R	Rahul M R

102	1NH18EC091	RAKESH M	
103	1NH18EC092	RAKSHA CHANDRA	
104	1NH18EC093	RAKSHA KRISHI	
105	1NH18EC094	RAKSHITH MV	
106	1NH18EC095	RAMYA PRIYA Y	
107	1NH18EC097	ROHAN S PATIL	
108	1NH18EC098	ROHIT EGAYYA HARIKANTRA	
109	1NH18EC099	SAMANTHULA SAIHASAN	
110	1NH18EC101	SANSKRUT SANJAY GARUD	
111	1NH18EC102	SANTHOSH GOWDA M	
112	1NH18EC103	SHIVANI YADAV	
113	1NH18EC106	SNEHA.N.S	
114	1NH18EC107	SOUVIK MANNA	
115	1NH18EC108	SOWMYA L	
116	1NH18EC109	SRIKAKULAM HARI VENKATASIVANAGAMANISANDEEP	
117	1NH18EC110	SURAJ SURESH	
118	1NH18EC111	SYED ANEES AHMED	
119	1NH18EC112	TANMAYA S HALEMANI	
120	1NH18EC113	THOTA VENKATA ROHITH	
121	1NH18EC114	UMADEVI	
122	1NH18EC115	V B VASU	
123	1NH18EC116	VADDI CHETAN KUMAR REDDY	
124	1NH18EC117	VAISHAK.LAKSHMANAN	
125	1NH18EC118	VARIKUNTLA MIDHUN VENKATA MAHESHBABU	
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127	1NH18EC120	VIGNESH	
128	1NH18EC121	VINAYKUMAR K	
129	1NH18EC122	VUTUKURI GOWTHAM	
130	1NH18EC123	VYSHAK SATHISH SHETTY	
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134	1NH18EC134	PUDI YASHWANTH B C U	
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138	1NH18EC143	RAHUL M	
139	1NH18EC146	NAGELISA KALYANNAIDU	
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141	1NH19EC412	Risheek D S	
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143	1NH18EC130	DEVIKA K	
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147	1NH18EC142	CHARLES.U	
148	1NH18EC147	YOGESH V	
149	1NH18EC700	ADITYA JAKKARADDI	
150	1NH18EC701	AMASA HEMANTH REDDY	
151	1NH18EC702	AMOL PATIL	
152	1NH18EC703	ANKUSH BHATTACHARYYA	
153	1NH18EC704	ANTHALA NAGA SESHU	

154	1NH18EC705	BALA HARSHA VARDHAN	Harsha
155	1NH18EC706	BEEANAGARI THARUNESWAR REDDY	Tharuna
156	1NH18EC707	BOGGARAPU V SAI RATAN TEJA	Rat
157	1NH18EC708	C KEERTHI	Keerthi
158	1NH18EC709	CHANDRASHEKHARAIHAH M M	Chandrashekharaiah
159	1NH18EC710	DEEPIKA T	Deepika T
160	1NH18EC711	DIVYASHREE . R	Divya
161	1NH18EC712	FAIZAL F	Faizal F
162	1NH18EC713	GOPAVARAM VAIDHIK REDDY	Vaidhik
163	1NH18EC714	GUNTUPALLI SOWMYA	Sowmya
164	1NH18EC715	HASWITHA P SAI	Haswitha
165	1NH18EC716	INDRAJA CHIRUGUDU	Indraja
166	1NH18EC717	ISABELLA PAUL	Isabella
167	1NH18EC718	JAMMIGUMPULLA MAHENDRA	Jammigumpulla
168	1NH18EC719	JASTHI CHANDANA	Jasthi
169	1NH18EC720	K GANESHKUMAR REDDY	Ganesh Reddy
170	1NH18EC721	KABILAN.K	Kabilan
171	1NH18EC722	KARNA JAGADEESH	K. Jagadeesh
172	1NH18EC723	KARTHIKEYA.M	Karthikeya
173	1NH18EC724	KAVYA S	Kavya
174	1NH18EC725	KAVYASHREE B	Kavya
175	1NH18EC726	KIRAN JANGID	Kiran
176	1NH18EC727	LINGESH T	Lingesht
177	1NH18EC728	M DEEPTHI	Deepthi
178	1NH18EC729	M JAHAVI	M. Jahaavi
179	1NH18EC730	MANOJ N	Manoj
180	1NH18EC731	MAVULETI KUSHAL VARMA	Manja
181	1NH18EC733	NARAPUREDDY HARINATH REDDY	Harinath
182	1NH18EC734	NIKHIL A BHINGE	N. Karan
183	1NH18EC735	NIKITHA NAGARAJ	Nikhitha
184	1NH18EC736	PRIYA DAS P	Priya
185	1NH18EC737	PUNDUKURA RAMESH	Ramesh
186	1NH18EC738	R MERVIN FRANCIS	R. Mervin Francis
187	1NH18EC739	RAFIULLA KHAN Z	Rafiu
188	1NH18EC740	RAHULA	Rahula
189	1NH18EC741	RAJEEV KUMAR BC BC	Rajeev
190	1NH18EC742	S SHARAN	Sharan
191	1NH18EC743	SIDDAMREDDY VAMSI KRISHNA REDDY	S. Vamsi
192	1NH18EC744	S VENKATA YASWANTH REDDY	S. Venkata
193	1NH18EC745	SANTHOSH H M	Santhosh
194	1NH18EC746	SETTIPALLI DINESH REDDY	Settipalli
195	1NH18EC747	SHARANYA KN	S. Dinesh
196	1NH18EC749	SOURABH SRIKUMAR	Sharanya KN
197	1NH18EC750	SUBHASHINI S	Subhashini
198	1NH18EC751	SUNKU ASHISH KUMAR	Sunku
199	1NH18EC752	SWATHI A	Swathi
200	1NH18EC753	THIPPASAMUDRAM AFRID	Thippasamudram
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203	1NH18EC756	UJJAWAL PRAKASH	Ujjawal
204	1NH18EC757	PENDYALAVAMSIKRISHNA	Pendyalavamsi
205	1NH18EC758	VARUN M R	Varun
206	1NH18EC759	YOGESH O M	Yogesh
207	1NH19EC403	Kishan K S	Kishan

208	1NH19EC404	Nagarathna Nagesh Naik	
209	1NH19EC405	Padmavati narayana Pur	
210	1NH19EC406	Sanjay D E	
211	1NH19EC410	Nayankumar K C	
212	1NH19EC411	Rajashekar Reddy T V	

10X196401 Basavanaj

(Signature)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

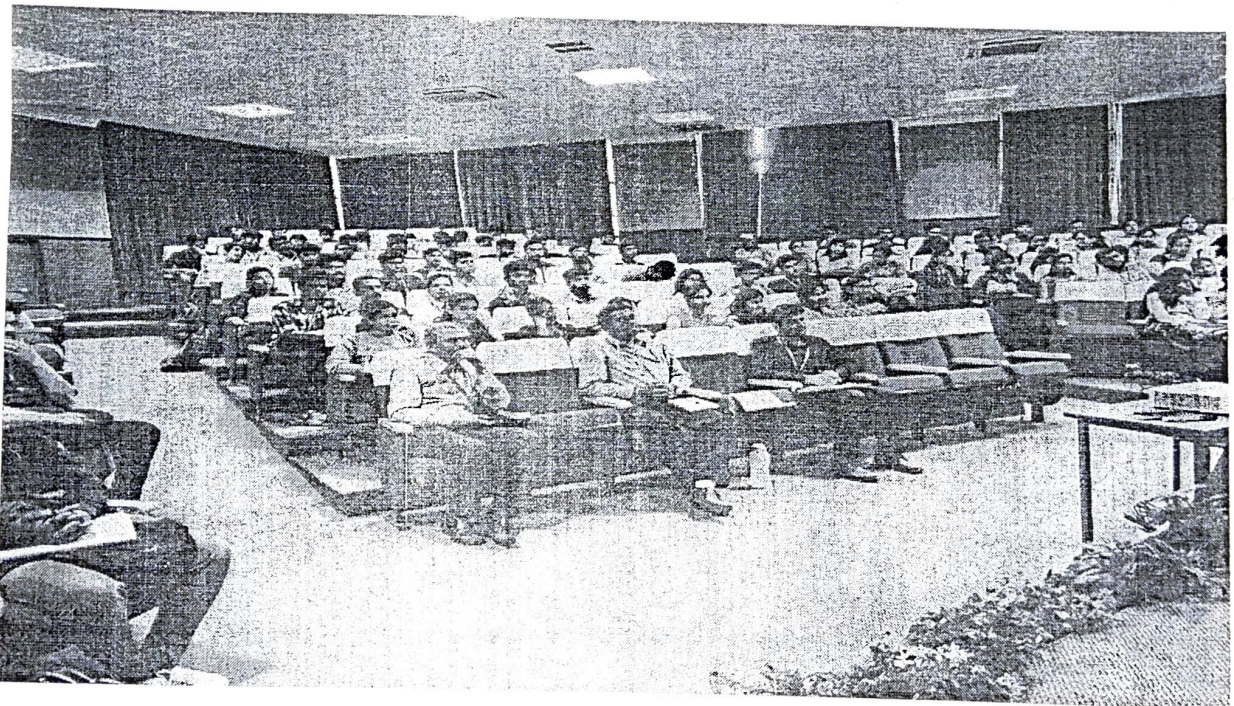
REPORT ON GUEST LECTURE

TOPIC: FPGA TECHNOLOGY

The department of Electronics and Communication of New Horizon College of Engineering had organized a guest lecture on 3 February 2020 for the fourth semester students.

The lecture on the topic "FPGA TECHNOLOGY" was provided by Mr. Prafulla Galphade, senior principal program manager, Cadence Design Systems (private) Ltd. The resource person gave a two hour presentation on various FPGA technologies, their significance, working and industrial applications.

The session started with him giving an introduction on Programmable Logic Devices, their types and a briefing about the need for them; and also about look up tables and their implementation.



This was followed by an introduction to what an FPGA is, the FPGA design flow (basic architecture), its evolution and the testing process. Mr. Galphade further went on to elaborate on the topic by discussing the

process of FPGA synthesis considering the basic examples like logic synthesis, behavioral synthesis, etc and the synthesis tools.

The next subtopic covered by the speaker was the 'Circuit Compilation Of FPGA' which included explanations on:

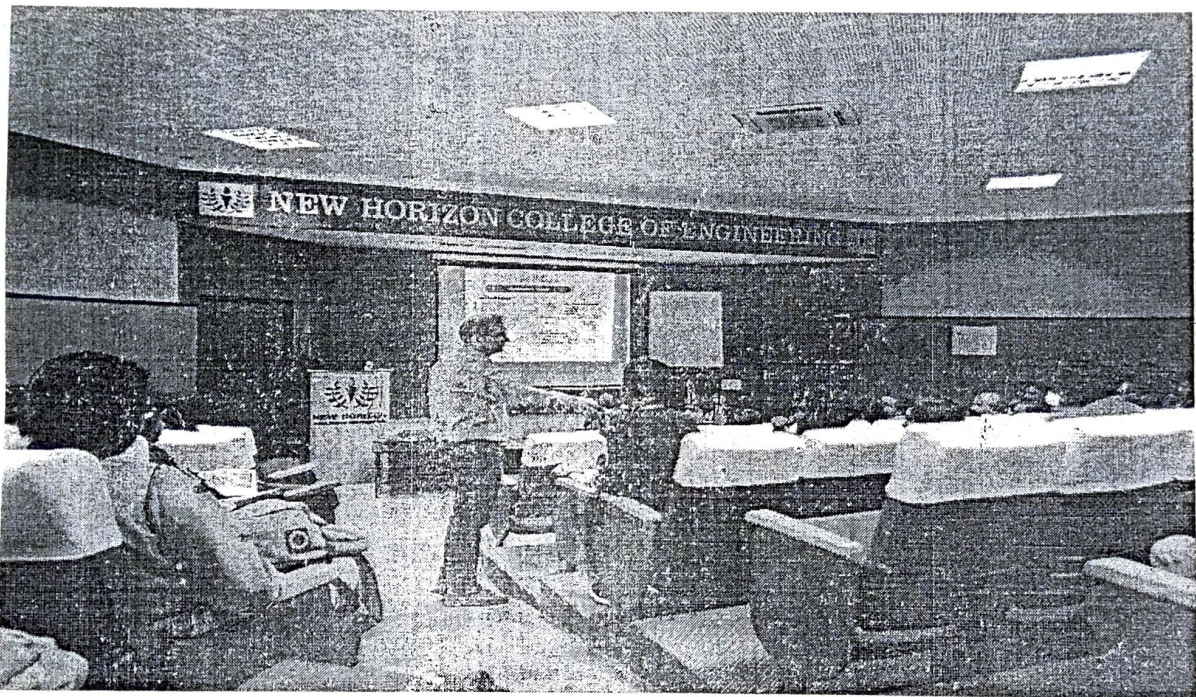
1) Circuit Netlist and Mapping

2) The Placement Metrics

3) The Routing Process

This was followed by a discussion on the application of the available FPGA technologies in various industrial aspects which mainly covered points on the appropriate technologies adapted by the industry along with a briefing about the advantages and disadvantages of each of them.

All of these above mentioned topics were clearly explained to the students with the help of presentations. The session was an interactive one wherein the students were asked questions by Mr. Galphade relevant to various topics that he covered. He also spoke about the industry expectations of upcoming engineers.



After his presentation concluded, the students were given the chance to voice out their questions on the topics that was covered and also regarding the upcoming developments and requirements in modern technology.

The session was indeed a beneficial one which helped the students understand the perspectives of the subject.



The session concluded with a vote of thanks and presentation of a memento to Mr. Galphade for taking his time out to enlighten the students.