



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

Sponsored by Lavu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VMTW/ECE/AOC/CIR/2021-22/I/01

Date: 08-09-2021

CIRCULAR

This is to inform all the IV B.Tech ECE students that there will be an Add on course on " **Modern Chip Design and Its Applications** " in association with Elegant Embedded Solutions Pvt Ltd. from **13-09-2021 to 30-10-2021** All students are invited to take part in this course. The participating students will be honored with certificates of participation. During the course you will be encouraged to interact with the speaker and the other participants through the case study discussions. Hence those who are interested can sign in registration form.

HOD

Head of the Department
Electronics and Communication Engineering
Vignans Institute of Management & Technology For Women
Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri (Dt)-501301

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Notice board

IV.B. Tech students

Dept. file



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MODERN CHIP DESIGN AND ITS APPLICATIONS

SYLLABUS

Academic Year : 2021-2022

B.Tech IV-I SEM

SECTION : ECE-A&B

Course Objectives:

- ❖ To understand basic programmable logic devices and testing of CMOS circuits
- ❖ To explain the electrical properties of MOS and BiCMOS devices to analyze the behavior of inverters designed with various loads
- ❖ Give exposure to different steps involved in the fabrication of ICs
- ❖ To understand basic programmable logic devices and testing of CMOS circuits.
- ❖ To learn chip level Test Techniques

UNIT – I :Introduction: Introduction to IC Technology – MOS, PMOS, NMOS, CMOS & BiCMOS Basic Electrical Properties: Basic Electrical Properties of MOS and BiCMOS Circuits: Ids-Vds relationships, MOS transistor threshold Voltage, gm, gds, Figure of merit; Pass transistor, NMOS Inverter, Various pull ups, CMOS Inverter analysis and design, Bi-CMOS Inverters.

UNIT – II: VLSI Circuit Design Processes: VLSI Design Flow, MOS Layers, Stick Diagrams, Design Rules and Layout, Transistors Layout Diagrams for NMOS and CMOS Inverters and Gates, Scaling of MOS circuits.

UNIT – III: Gate Level Design: Logic Gates and Other complex gates, Switch logic, Alternate gate circuits, Time delays, Driving large capacitive loads, Wiring capacitance, Fan – in, Fan – out.

UNIT – IV: Data Path Subsystems: Subsystem Design, Shifters, Adders, ALUs, Multipliers, Parity generators, Comparators, Zero/One Detectors, Counters. Array Subsystems: SRAM, DRAM, ROM, Serial Access Memories.

UNIT – V: Programmable Logic Devices: Design Approach – PLA, PAL, Standard Cells FPGAs, CPLDs. CMOS Testing: CMOS Testing, Test Principles, Design Strategies for test, Chip level Test Techniques.



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TEXT BOOKS:

1. Essentials of VLSI circuits and systems – Kamran Eshraghian, Eshraghian Douglas and A. Pucknell, PHI, 2005 Edition R18 B.TECH ECE III YEAR
2. CMOS VLSI Design – A Circuits and Systems Perspective, Neil H. E Weste, David Harris, Ayan Banerjee, 3rd Ed, Pearson, 2009.

REFERENCE BOOKS:

1. Introduction to VLSI Systems: A Logic, Circuit and System Perspective – Ming-BO Lin, CRC Press, 2011
2. CMOS logic circuit Design - John. P. Uyemura, Springer, 2007.


COORDINATOR


RESOURCE PERSON


HOD

Head of the Department
Electronics and Communication Engineer
Vignan's Institute of Management & Technology For Women
Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri (Dt.)-501301




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE NAME: **Modern Chip Design and Its Applications**

DAY WISE SCHEDULE SHEET

Academic Year : 2021-2022

Date : 08-09-2021

B.Tech IV-I SEM

SECTION : ECE-A & B

Room number: BFF7

S.No	DAY	Topic	Timings	Duration
1.	13-09-21	Introduction to IC Technology	04:00pm to 05:00pm	1 hour
2.	14-09-21	MOS, PMOS, NMOS, CMOS &	04:00pm to 05:00pm	1 hour
3.	15-09-21	Basic Electrical Properties	04:00pm to 05:00pm	1 hour
4.	16-09-21	Basic Electrical Properties of MOS and	04:00pm to 05:00pm	1 hour
5.	17-09-21	Basic Electrical Properties of MOS and	04:00pm to 05:00pm	1 hour
6.	18-09-21	Ids-Vds relationships	04:00pm to 05:00pm	1 hour
7.	20-09-21	MOS transistor threshold Voltage, gm,	04:00pm to 05:00pm	1 hour
8.	21-09-21	Figure of merit; Pass transistor	04:00pm to 05:00pm	1 hour
9.	22-09-21	NMOS Inverter	04:00pm to 05:00pm	1 hour
10.	23-09-21	Various pull ups	04:00pm to 05:00pm	1 hour
11.	24-09-21	CMOS Inverter analysis and design	04:00pm to 05:00pm	1 hour
12.	25-09-21	Bi-CMOS Inverters.	04:00pm to 05:00pm	1 hour
13.	27-09-21	VLSI Circuit Design Processes	04:00pm to 05:00pm	1 hour
14.	28-09-21	VLSI Design Flow	04:00pm to 05:00pm	1 hour
15.	29-09-21	MOS Layers	04:00pm to 05:00pm	1 hour
16.	30-09-21	Stick Diagrams	04:00pm to 05:00pm	1 hour
17.	01-10-21	Design Rules and Layout	04:00pm to 05:00pm	1 hour
18.	04-10-21	Transistors Layout Diagrams for NMOS	04:00pm to 05:00pm	1 hour
19.	05-10-21	Scaling of MOS circuits	04:00pm to 05:00pm	1 hour
20.	06-10-21	Gate Level Design: Logic Gates and	04:00pm to 05:00pm	1 hour
21.	07-10-21	Switch logic, Alternate gate circuits	04:00pm to 05:00pm	1 hour
22.	18-10-21	Time delays, Subsystem Design	04:00pm to 05:00pm	1 hour
23.	19-10-21	Data Path Subsystems:	04:00pm to 05:00pm	1 hour
24.	20-10-21	Shifters, Adders, ALUs, Multipliers,	04:00pm to 05:00pm	1 hour
25.	21-10-21	Comparators, Zero/One Detectors	04:00pm to 05:00pm	1 hour
26.	22-10-21	Counters, Array Subsystems: SRAM,	04:00pm to 05:00pm	1 hour




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27.	23-10-21	ROM, Serial Access Memories. DRAM	04:00pm to 05:00pm	1 hour
28.	25-10-21	Design Approach – PLA, PAL	04:00pm to 05:00pm	1 hour
29.	26-10-21	Standard Cells FPGAs, CPLDs	04:00pm to 05:00pm	1 hour
30.	27-10-21	CMOS Testing, Test Principles	04:00pm to 05:00pm	1 hour
31.	28-10-21	Design Strategies for test	04:00pm to 05:00pm	1 hour
32.	29-10-21	Chip level Test Techniques	04:00pm to 05:00pm	1 hour
33.	30-10-21	Test conducted, feedback taken	04:00pm to 05:00pm	1 hour
Total – 33hours				


COORDINATOR


HOD

Head of the Department
 Electronics and Communication Engineering
 Vignan's Institute of Management and Technology for Women
 Kondapur (V), Ghatkesar (M), R.R. Dist-501 301




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE NAME: **Modern Chip Design and Its Applications**

ADDON COURSE STUDENT REGISTRATION FORM

Academic Year : 2021-2022

Date : 07-09-2021

B.Tech IV-I SEM

SECTION : ECE-A

S.No	Roll number	Name of the student	Signature
1.	18UPIA0401	ADDANKI DHARANI	A. Dhareni
2.	18UPIA0402	ADUSUMILLI SRILASYA	Srilasya
3.	18UPIA0403	ARROJU VAISHNAVI	Arroju
4.	18UPIA0404	BANDARI MOUNIKA	Mounika.
5.	18UPIA0405	BATTULA SANGEETHA	Sangeetha
6.	18UPIA0406	CHINTAKUNTA RASAGNA	Rasagna
7.	18UPIA0407	DAMMANNAPETA SOUJANYA	Soujanya
8.	18UPIA0408	DESHAM SRIVANI	Srivani
9.	18UPIA0409	DIGAJARLA SNEHITHA	Snehitha
10.	18UPIA0410	GAMPALA MADHURI	Madhuri
11.	18UPIA0412	GANDHE AKANKSHA	G. Akanksha
12.	18UPIA0413	GANNA KAVYA	G. kavya
13.	18UPIA0414	GATTU MOUNIKA	G. mounika
14.	18UPIA0415	GIRINENI DIVYA	Divya
15.	18UPIA0417	GUNTUPALLI MIDHUNA	Midhuna
16.	18UPIA0418	GURUGUBELLI SUSHMA	G. Sushma
17.	18UPIA0419	JAGINI SHARANYA	Sharanya
18.	18UPIA0420	JANAGAMA SRIVIDHYA	Sri Vidhya
19.	18UPIA0421	JOGIRAJU AKSHARA	Akshara
20.	18UPIA0422	JONNALAGADDA DEEPTHI	Deepti
21.	18UPIA0423	K HARIPRIYA	Haripriya
22.	18UPIA0424	KANCHARLA SRUTHI	Sruthi
23.	18UPIA0425	KONAMUTLA JHANSI	Jhansi
24.	18UPIA0426	KOTA LIKHITHA	Likhitha
25.	18UPIA0427	KOTHA SWATHI	Swathi
26.	18UPIA0428	KOTLA SONY	K. Sony
27.	18UPIA0429	KOTTAM AKHILA	K. Akhila
28.	18UPIA0430	KUNTA DEEPIKA	Deepika




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29.	18UPIA0431	LADALLA PAVANI	Pavani
30.	18UPIA0432	MADDI SRIVIDYA	Sri Vidya
31.	18UPIA0433	MALAMANTI MOUNIKA	Mounika
32.	18UPIA0434	MAREPALLY ADITI SAI	Aditi
33.	18UPIA0435	MITTA AKSHITHA	Akshitha
34.	18UPIA0436	MOROJU KUSUMA	Kusuma
35.	18UPIA0437	MOTAMARRI MEGHANA	M
36.	18UPIA0438	N GAYATHRI	
37.	18UPIA0439	N RUPARANI	R
38.	18UPIA0440	NACHU SHIVANI	Shivani
39.	18UPIA0442	PEDDI AISHWARYA	AISHWARYA
40.	18UPIA0443	PULUSANI VARSHITHA	Varshitha
41.	18UPIA0444	REDDYGARI JAHNAVI REDDY	Jahnavi
42.	18UPIA0445	SAMALA POOJA	Pooja
43.	18UPIA0446	SHAIK ZEENATH	Zeenaath
44.	18UPIA0447	SINGIRIKONDA AISHWARYA	Aishwarya
45.	18UPIA0448	SUKKA SHARANYA	
46.	18UPIA0449	SUNKARABOINA AMOOL SIRI	Aamol
47.	18UPIA0450	TANGUTURI NIHARIKA	Niharika
48.	18UPIA0451	VEERAMALLA MANASA	Manasa
49.	18UPIA0452	VUPPUGANDLA SREEJA	Sreeja
50.	18UPIA0453	YELLOJU SRAVANI	Sravani
51.	19UP5A0401	ABRABOINA SAIKUMARI	Sai +
52.	19UP5A0402	ADEPU SHIVANI	
53.	19UP5A0403	BANDI JHANSI	Jhansi
54.	19UP5A0404	BATHINI NIVEDITHA	Niveditha
55.	19UP5A0405	BODDIREDDY RAVALI	Ravi
56.	19UP5A0407	GANDHARI SHAILAJA	


COORDINATOR




HOD

Head of the Department
Electronics and Communication Engineering
Vignani's Institute of Management and Technology for Women
Kondapur (V), Ghatkesar (M), R.R. Dist-501 301


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ADDON COURSE STUDENT REGISTERED LIST

Academic Year : 2021-2022

Date : 07-09-2021

B.Tech IV-I SEM

SECTION : ECE-A

S.No	Roll Number	Name of the Student
1	18UPIA0401	ADDANKI DHARANI
2	18UPIA0402	ADUSUMILLI SRILASYA
3	18UPIA0403	ARROJU VAISHNAVI
4	18UPIA0404	BANDARI MOUNIKA
5	18UPIA0405	BATTULA SANGEETHA
6	18UPIA0406	CHINTAKUNTA RASAGNA
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10	18UPIA0410	GAMPALA MADHURI
11	18UPIA0412	GANDHE AKANKSHA
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23	18UPIA0426	KOTA LIKHITHA
24	18UPIA0427	KOTHA SWATHI
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26	18UPIA0429	KOTTAM AKHILA
27	18UPIA0431	LADALLA PAVANI
28	18UPIA0432	MADDI SRIVIDYA
29	18UPIA0433	MALAMANTI MOUNIKA
30	18UPIA0434	MAREPALLY ADITI SAI
31	18UPIA0435	MITTA AKSHITHA
32	18UPIA0436	MOROJU KUSUMA
33	18UPIA0437	MOTAMARRI MEGHANA




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34	18UP1A0439	N RUPARANI
35	18UP1A0440	NACHU SHIVANI
36	18UP1A0442	PEDDI AISHWARYA
37	18UP1A0443	PULUSANI VARSHITHA
38	18UP1A0444	REDDYGARI JAHNAVI REDDY
39	18UP1A0445	SAMALA POOJA
40	18UP1A0446	SHAIK ZEENATH
41	18UP1A0447	SINGIRIKONDA AISHWARYA
42	18UP1A0449	SUNKARABOINA AMOOL SIRI
43	18UP1A0450	TANGUTURI NIHARIKA
44	18UP1A0451	VEERAMALLA MANASA
45	18UP1A0452	VUPPUGANDLA SREEJA
46	18UP1A0453	YELLOJU SRAVANI
47	19UP5A0401	ABRABOINA SAIKUMARI
48	19UP5A0403	BANDI JHANSI
49	19UP5A0404	BATHINI NIVEDITHA
50	19UP5A0405	BODDIREDDY RAVALI


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE NAME: **Modern Chip Design and Its Applications**

ADDON COURSE STUDENT REGISTRATION FORM

Academic Year : 2021-2022

Date : 07-09-2021

B.Tech IV-I SEM

SECTION : ECE-B

S.No	Roll number	Name of the student	Signature
1.	18UPIA0454	ARSHIA JABEEN	Arshia
2.	18UPIA0455	ATLURU SINDHUJA	Sindhuja
3.	18UPIA0456	B SOUMYA	Soumya
4.	18UPIA0457	MOTUPALLI BHAVANA SAI PRIYA	Saipriya
5.	18UPIA0458	BODDIREDDY SAI ASHRITHA	Sai Ashritha
6.	18UPIA0459	B ABHIGNA	Abhigna
7.	18UPIA0460	BOGGULA VENKATA KRISHNA	Venkata Krishna
8.	18UPIA0461	BORRA LIKITHA	Likitha
9.	18UPIA0462	C KAVYA SREE	Kavya Sree
10.	18UPIA0463	CHALASANI SRI SAI BHUVANESWARI	Sri Sai Bhuvaneshwari
11.	18UPIA0464	CHALLA TEJASWINI	Teja
12.	18UPIA0465	GADUSU NAVYA	Navya
13.	18UPIA0466	GUMMADEELA LAKSHMI PRASANNA	G. Lakshmi
14.	18UPIA0467	GURRAM SRAVANTHI	Sravanthi
15.	18UPIA0468	JAKKA DEEPTHI	Deepti
16.	18UPIA0469	JAKKA KEERTHI	Keerthi
17.	18UPIA0471	KANDADI POOJA	Pooja
18.	18UPIA0472	KARI DIVYA SRI SAI DURGA	Divya
19.	18UPIA0473	KODALI RUPA	Rupa
20.	18UPIA0474	KOLA SNIGDHA	Snigdha
21.	18UPIA0475	KOPPULA BHAVANA	K. Bhavana
22.	18UPIA0476	KURREMULA SAI SOWJANNYA	Sai Sowjanya
23.	18UPIA0477	MALKEYAGARU SATHWIKI REDDY	Sathwik
24.	18UPIA0478	MANDALA SHRESTA	Shresta
25.	18UPIA0479	MARAMPALLY APOORVA	Apoorva
26.	18UPIA0480	MOMULA VASANTHA LAXMI	Vasantha Laxmi
27.	18UPIA0481	MULLAPUDI YOSHITHA NAGA SAI LAKSHMI	Lakshmi
28.	18UPIA0482	NANDYALA VARSHITHA	Varshitha



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29.	18UPIA0483	PODURI MEHER SESHASREE	sa
30.	18UPIA0484	PESARU SHIVANI	-
31.	18UPIA0486	P. NAGA VIJAYA VYSHNAVI	Dis
32.	18UPIA0487	PAPPULA VARSHITHA	Varshitha
33.	18UPIA0488	PEDDI RASHMITHA	su
34.	18UPIA0489	PEDDI REDDY PRAVALIKA	Pl
35.	18UPIA0490	PENDYALA BHOOMIKA	-
36.	18UPIA0491	POCHAMPALLI HARINI	P. Harini
37.	18UPIA0492	PODDUTURI ANVITHA	Anvitha
38.	18UPIA0493	POTHUGANTI MADHUNITHA	Madhunitha
39.	18UPIA0494	PULLURU SRAVANI	Sravani
40.	18UPIA0495	PYATA PRANANJALI REDDY	Prananjali
41.	18UPIA0496	SANTI SREEJA REDDY	sf
42.	18UPIA0497	SARANGA NAVYA SRI	NAVYA SRI
43.	18UPIA0498	SAVIRIGAM SRAVYA	Sravya
44.	18UPIA0499	SUDHAGONI SINDHU	Sindhu
45.	18UPIA04A0	TENKASALA SHRUTHI MADHURI	Madhuri
46.	18UPIA04A1	VEERAMREDDY SATVIKA	-
47.	18UPIA04A2	VUYYALA SREEJA	Sreeja
48.	18UPIA04A3	YERRA SUSHMITHA	Sushmitha
49.	19UP5A0408	K RENUKA	Renuka
50.	19UP5A0409	NIMMA JHANSI	Jansi
51.	19UP5A0410	NURCHU SHIRISHA	SHIRISHA
52.	19UP5A0411	NUTENKI SINDHU	Sindhu
53.	19UP5A0412	POOSALA KEERTHY	-
54.	19UP5A0413	S. AKHILA	Akhila
55.	19UP5A0414	VORUGANTI AKANKASHA	Abp


COORDINATOR




HOD

Head of the Department
Electronics and Communication Engineering
Vignona's Institute of Management and Technology For Women
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SECTION : ECE-B

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14	18UPIA0468	JAKKA DEEPTHI
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16	18UPIA0471	KANDADI POOJA
17	18UPIA0472	KARI DIVYA SRI SAI DURGA
18	18UPIA0473	KODALI RUPA
19	18UPIA0474	KOLA SNIGDHA
20	18UPIA0475	KOPPULA BHAVANA
21	18UPIA0476	KURREMULA SAI SOWJANNYA
22	18UPIA0477	MALKEYAGARU SATHWIK REDDY
23	18UPIA0478	MANDALA SHRESTA
24	18UPIA0479	MARAMPALLY APOORVA
25	18UPIA0480	MOMULA VASANTHA LAXMI
26	18UPIA0481	M.YOSHITHA NAGA SAI LAKSHMI
27	18UPIA0482	NANDYALA VARSHITHA
28	18UPIA0483	PODURI MEHER SESHASREE
29	18UPIA0486	P. NAGA VIJAYA VYSHNAVI
30	18UPIA0487	PAPPULA VARSHITHA
31	18UPIA0488	PEDDI RASHMITHA



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32	18UP1A0489	PEDDIREDDY PRAVALIKA
33	18UP1A0491	POCHAMPALLI HARINI
34	18UP1A0492	PODDUTURI ANVITHA
35	18UP1A0493	POTHUGANTI MADHUNITHA
36	18UP1A0494	PULLURU SRAVANI
37	18UP1A0495	PYATA PRANANJALI REDDY
38	18UP1A0496	SANTI SREEJA REDDY
39	18UP1A0497	SARANGA NAVYA SRI
40	18UP1A0498	SAVIRIGAM SRAVYA
41	18UP1A0499	SUDHAGONI SINDHU
42	18UP1A04A0	TENKASALA SHRUTHI MADHURI
43	18UP1A04A2	VUYYALA SREEJA
44	18UP1A04A3	YERRA SUSHMITHA
45	19UP5A0408	K RENUKA
46	19UP5A0409	NIMMA JHANSI
47	19UP5A0410	NURCHU SHIRISHA
48	19UP5A0411	NUTENKI SINDHU
49	19UP5A0413	S. AKHILA
50	19UP5A0414	VORUGANTI AKANKASHA


COORDINATOR




HOD

Head of the Department
Electronics and Communication Engineering
Vignani's Institute of Management & Technology For Women
Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri (Dt)-501301


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