

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,
Accredited by NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD),
Visakhapatnam-531113



*Certificate Course
on*

Zero to Chip Design using OpenPOWER

From 21st Feb 2022 to 26th Feb 2022



ORGANIZED BY

**DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,
MAKAVARAPALEM (V), VISAKHAPATNAM-531113**

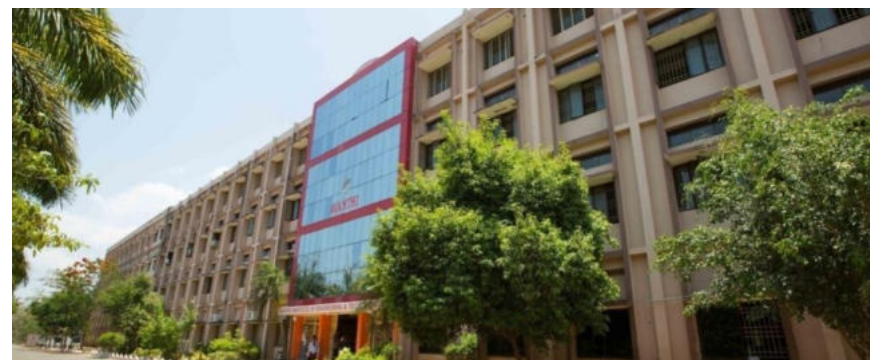
AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M.Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The ECE Department was established in the year 1999 with an intake of 60 students and this was increased to 120 students in the 2007 and increased to 180 students in the 2012. The department has an eminent faculty and well supported infrastructure and laboratories. The faculty keeps abreast with the latest advances in technology and ensures that hardware equipment and related software are upgraded to ensure its students are able to keep pace with current trends in technology and the industry.

The department also offers a Post – Graduate courses in DECS and VLSI Design. The students are encouraged to participate in workshops, industrial internship, industrial visits and seminars; along with the projects assigned during the course, these activities enable them to broaden their outlook and build in professionalism that makes their transition from college to industry smoother after graduation

ABOUT COURSE

The main objective of the program is to provide basic concepts of SoC design, introduce OpenPOWER cores, VLSI testing and verification concepts. The course covers the concepts and tools you need throughout the entire VLSI pipeline

TOPICS TO BE COVERED

Day-1: introduction to OpenPOWER

Day-2: Microwatt Introduction

Day-3: GEM5 for processor evaluation

Day-4: Verification concepts - Introduction

Day-5: System on Chip (SoC) and its Components

Day-6: Chip Alliance and Automated Analog design flow

For Registration please contact Mrs G.Sandhya, Assistant Professor, ECE

CHIEF PATRON Smt.M.Gnaneswari President, Avanthi Educational Society	PATRON Dr. C P V N J Mohan Rao Principal, Avanthi Institute Of Engineering And Technology	CHAIRMAN Dr. E. Govinda Head of the Department Electronics and Communication Engineering
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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

Date: 17/02/2022.

This is informed to all the III & II B.Tech ECE students that our department is planning to conduct one week course on **"Zero to Chip Design using OpenPOWER"** scheduled from 21-02-2022 to 26-02-2022. It is directed to all the students of III and II ECE to utilize this opportunity to enhance your technical skills. For more details about registration process and participation contact Course Coordinator Mrs.G.Sandhya, Assistant Professor, ECE.

Resource Person Details:

1. Dr .PA. Nageswara Rao
Associate Professor,
Department of ECE,
Gayatri vidya parishad college, Rushikonda,
Visakhapatnam.
2. Dr.J .Sudhakar,
Professor,
Department of ECE,
Vignan's Institute of Engineering for Women,
Visakhapatnam.



E. Govinda

Head of the Department,

ECE.

**HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE**

Avanathi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-53- 113.


Copy to: Principal, AIET
Principal

Avanathi Institute of Engg. & Technology
Tamaram, Makavarapalem Md.,
Visakhapatnam District., Pin: 531113



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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Zero to Chip Design using OpenPOWER

From 21st Feb 2022 To 26th Feb 2022

SYLLABUS

Day-1: introduction to OpenPOWER

Day-2: Microwatt Introduction

Day-3: GEM5 for processor evaluation

Day-4: Verification concepts - Introduction

Day-5: System on Chip (SoC) and its Components

Day-6: Chip Alliance and Automated Analog design flow

E. Govinda
CHAIRMAN
&

Head of the Department
Electronics and communication Engineering

G. Sandhya
G. Sandhya
Asst. Professor
Coordinator

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanathi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-531113.



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Zero to Chip Design using OpenPOWER

From 21st Feb 2022 To 26th Feb 2022

Schedule

Day-1 (21/02/2022)

09:00 to 10:00	Inaugural Session
10:00 to 12:00	introduction to OpenPOWER
12:00 to 01:00	Lunch Break
01:00 to 04:00	IC design workloads running on Clouds

Day-2 (22/02/2022)

09:00 to 12:00	Microwatt Introduction
12:00 to 01:00	Lunch Break
01:00 to 04:00	FPGA Implementation of Microwatt system demo

Day-3 (23/02/2022)

09:00 to 12:00	GEM5 for processor evaluation
12:00 to 01:00	Lunch Break
01:00 to 04:00	FPGA Implementation of Microwatt system Hands on

Day-4 (24/02/2022)

09:00 to 12:00	Verification concepts - Introduction
12:00 to 01:00	Lunch Break
01:00 to 04:00	Components of IP Core verification

Day-5(25/02/2022)

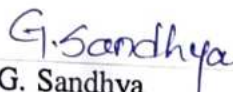
09:00 to 12:00	System on Chip (SoC) and its Components
12:00 to 01:00	Lunch Break
01:00 to 04:00	Fabless SoC Ananth and SoC verification methodologies

Day-6(26/02/2022)

09:00 to 12:00	Chip Alliance and Automated Analog design flow
12:00 to 01:00	Lunch Break
01:00 to 04:00	Automated RTL to GDS II Flow and conclusion


E. Govinda
CHAIRMAN
&

Head of the Department
Electronics and Communication Engineering


G. Sandhya
Asst. Professor
Coordinator

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-531



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Zero to Chip Design using OpenPOWER

From 21st Feb 2022 To 26th Feb 2022

III & II BTECH ECE STUDENT ATTENDANCE LIST

S.NO	ROLL NO	NAME IF THE STUDENT	21/2	22/2	23/2	24/2	25/2	26/2
1.	19811A0401	ADATRAVU BHARGAVI	✓	✓	✓	✓	✓	✓
2.	19811A0402	ALLU ROOPA	✓	✓	✓	✓	✓	✓
3.	19811A0404	BALIJI YAMINI	✓	✓	✓	✓	✓	✓
4.	19811A0405	BEVARA DIVYASREE	✓	✓	✓	✓	✓	✓
5.	19811A0406	BHAVANA BUDDA	✓	✓	✓	X	✓	✓
6.	19811A0407	BODAPATI SAMU SRI	✓	✓	✓	✓	✓	✓
7.	19811A0408	BYLAPUDI VINITH	✓	✓	✓	✓	✓	✓
8.	19811A0409	KANTIPAMU SASIKALA	✓	✓	✓	✓	✓	✓
9.	19811A0410	CHITIKALA PRADEEP CHANDRA	✓	✓	✓	✓	✓	✓
10.	19811A0411	CHITRADA RAMESH	✓	✓	✓	✓	✓	✓
11.	19811A0412	CHUCHUPATLA KUSUMALATHA	✓	✓	✓	✓	✓	✓
12.	19811A0413	CHUA BALAJI	✓	✓	✓	✓	✓	✓
13.	19811A0415	DEENAMKONDA GOPAL RAJU	✓	✓	✓	✓	✓	✓
14.	19811A0416	DEEPTHI PEDAPATI	✓	X	✓	✓	✓	✓
15.	19811A0417	GANISETTY DIVAYA JYOTHI	✓	✓	✓	✓	✓	✓
16.	19811A0418	GANUGULA BHARAT KUMAR	✓	✓	✓	✓	✓	✓
17.	19811A0419	GAVIREDDI DEVI	✓	✓	✓	✓	✓	✓
18.	19811A0420	GEDDAM TEJASWI	✓	✓	✓	✓	✓	✓
19.	19811A0421	KARAKA PYDIRAJU	✓	✓	✓	✓	✓	X
20.	19811A0422	KEERTHI ROHINI	✓	✓	✓	✓	✓	✓

21.	19811A0423	KEMBURU SAISREE	✓	✓	✓	✓	✓	✓
22.	19811A0424	KILAPARTHI SAI KANNAYYA NAIDU	✓	✓	✓	✓	✓	✓
23.	19811A0425	KODA MANIKANTA	✓	✓	✓	✓	✓	✓
24.	19811A0426	KOTLA KRISHNA KUMAR	✓	✓	✓	✓	✓	✓
25.	19811A0427	KAMBALA LIKHITHA	✓	✓	✓	✓	✓	✓
26.	19811A0428	MEDE NAGA SRAVANI	✓	✓	✓	✓	✓	✓
27.	19811A0429	MENDI DENIL	✓	X	✓	✓	✓	✓
28.	19811A0430	MUNASALA HEMA LATHA	✓	✓	✓	✓	✓	✓
29.	19811A0431	MUPPANADAM VENKATA MANIKANTA SAI	✓	✓	✓	✓	✓	✓
30.	19811A0432	NADIGATLA MAHALAKSHMI	✓	✓	✓	✓	✓	✓
31.	19811A0433	NAKKA GANESH	✓	✓	✓	✓	✓	✓
32.	19811A0434	NAKKA MANASA	✓	✓	✓	✓	✓	✓
33.	19811A0435	PADI DEVI	✓	✓	✓	✓	✓	✓
34.	19811A0436	PALLADI DIVYA	✓	✓	✓	✓	✓	✓
35.	19811A0437	PAMPANA MANI JYOTHSNA	✓	✓	✓	✓	✓	✓
36.	19811A0438	PILLI MOHAN GOWRI KALAVATHI	✓	✓	✓	✓	✓	✓
37.	19811A0440	POTHUNEEDI PAVAN KALYAN	✓	✓	✓	✓	X	✓
38.	19811A0441	RAPETI HEERAVANI	✓	✓	✓	✓	✓	✓
39.	19811A0443	SALADULA POORNA CHANDRASEKHAR	✓	✓	✓	✓	✓	✓
40.	19811A0444	SHAIK BASHEERAMMA	✓	✓	✓	✓	✓	✓
41.	19811A0445	SINGAMPALLI MOHAN KISHORE	✓	✓	✓	✓	✓	✓
42.	19811A0446	SUREDDI SWATHI	✓	✓	✓	✓	✓	✓


43.	19811A0447	TALARI MOHAN VASANTH KUMAR	✓	✓	✓	✓	✓	✓
44.	19811A0448	TATIKONDA NANI	✓	✓	✓	✓	✓	✓
45.	19811A0449	TEPPALA TARUN	✓	✓	✓	✓	✓	✓
46.	19811A0450	TONANGI PAVANI	✓	✓	✓	✓	✓	✓
47.	19811A0451	TURUBILLI KOTESWARA RAO	✓	✓	✓	✓	✓	✓
48.	19811A0452	VUDI KIRAN	✓	✓	✓	✓	✓	✓
49.	19811A0453	YERNAGULA RAHUL	✓	✓	✓	✓	✓	✓
50.	20815A0401	ALAPATI ANASUYA PRABHAVATHI TEJASWI	✓	✓	✓	✓	✓	✓
51.	20815A0402	ANDIBOINA DHARANI	✓	✓	✓	✓	✓	✓
52.	20815A0403	ANIVILLA PADMINI PRASHANTHI	✓	✓	✓	✓	✓	✓
53.	20811A0401	ADAPUREDDI HEMA KIRAN	✓	✓	✓	✓	✓	✓
54.	20811A0403	ANNAMREDDY RENUKA	✓	X	✓	✓	✓	✓
55.	20811A0404	A R JUSTINA	✓	✓	✓	✓	✓	✓
56.	20811A0405	AZAD TEPPALA	✓	✓	✓	✓	✓	✓
57.	20811A0406	BANDARU GANGADHAR	✓	✓	✓	✓	✓	✓
58.	20811A0407	BANDARU HARIKA	✓	✓	✓	✓	✓	✓
59.	20811A0408	BANDARU UDAYKAMAL	✓	✓	✓	✓	✓	✓
60.	20811A0409	BANTUBILLI SIRISHA	✓	✓	✓	✓	✓	✓
61.	20811A0410	BARNIKALA LOKESH	✓	✓	✓	✓	✓	✓
62.	20811A0411	BEERA MAHESH BABU	✓	✓	✓	✓	✓	✓
63.	20811A0412	BHEEMUNI YASASWANI NAMRATHA SRI	✓	✓	✓	✓	✓	✓
64.	20811A0413	BODDETI PRASANTHI	✓	✓	✓	✓	✓	✓
65.	20811A0414	B. NIKHIL TEJA	✓	✓	✓	✓	✓	✓
66.	20811A0415	BOTTA TULASI	✓	✓	✓	✓	✓	✓
67.	20811A0416	CHANDAKA PAVANI	✓	✓	✓	✓	✓	✓
68.	20811A0417	CHIKKALA.GOWRI PARVATHI DEVI	✓	✓	✓	✓	✓	✓
69.	20811A0418	ERLA GURU PRATHAP	✓	✓	✓	✓	✓	✓
70.	20811A0419	G SRI HARSHA	✓	✓	✓	✓	✓	✓
71.	20811A0420	GEMBALI.LAHARI	✓	✓	✓	✓	✓	✓

72.	20811A0421	G. VENU MADHAV	✓	✓	✓	✓	✓	✓
73.	20811A0422	GOKULAPATI SHYAM	✓	✓	✓	✓	✓	✓
74.	20811A0423	G DEVAMANIKANTA	✓	✓	✓	✓	✓	✓
75.	20811A0424	GONTHINA DEEPTHI	✓	✓	✓	✓	✓	✓
76.	20811A0425	GUNISETTY TANMAYEE SATYA	X	✓	✓	✓	✓	✓
77.	20811A0427	J SRINIVAS SARAT	✓	✓	✓	✓	✓	✓
78.	20811A0428	KETHAVARAPU. BHARGAVI	✓	✓	✓	✓	✓	✓
79.	20811A0429	KILLAMPALLI PRASANNA	✓	✓	✓	✓	✓	✓
80.	20811A0430	KONA MOHAN KARTHIK	✓	✓	✓	✓	✓	✓
81.	20811A0431	KORATANA TEJA	✓	✓	✓	✓	✓	✓
82.	20811A0433	KORRAYI DHARAMALLESH	✓	✓	✓	✓	✓	✓
83.	20811A0434	JAYALAKSHMI NANDAVARAPU	✓	✓	✓	✓	✓	✓
84.	20811A0435	LEKKALA KALYANI	✓	✓	✓	✓	✓	✓
85.	20811A0436	MADEM MANITEJA	✓	✓	✓	✓	✓	✓
86.	20811A0437	MONALI MALLA	✓	✓	✓	✓	✓	✓
87.	20811A0438	MARRAPU SURESH	✓	✓	✓	✓	✓	✓
88.	20811A0439	MEDAPUREDDI SUSEELA	✓	✓	✓	✓	✓	✓
89.	20811A0440	MIDATHANA SRIVANI	✓	✓	✓	✓	✓	✓
90.	20811A0441	MOLLETI DURGAPRASAD	✓	✓	✓	✓	✓	✓
91.	20811A0443	MUMMINA PRAVALLIKA	✓	✓	✓	✓	✓	✓
92.	20811A0444	MUNIPALLE PAVAN KUMAR	✓	✓	✓	✓	✓	✓
93.	20811A0445	SUDHAKAR NAGIREDDY	✓	✓	✓	✓	✓	✓
94.	20811A0446	NAMALA TEJASWINI	✓	✓	✓	✓	✓	✓
95.	20811A0447	PADMANABHAM.SAI BHARGAVI	✓	✓	✓	✓	✓	✓
96.	20811A0448	PALLELA LAVANYA	✓	✓	✓	✓	✓	✓
97.	20811A0449	PALLI SRINU	✓	✓	✓	✓	✓	✓
98.	20811A0450	P CHANDINI	✓	✓	✓	✓	✓	✓
99.	20811A0451	PENTAKOTA JASHWANTH KUMAR	✓	✓	✓	✓	✓	✓
100.	20811A0452	PENTAKOTA VASAVI	✓	✓	✓	✓	✓	✓
101.	20811A0453	PILLA PREMANJALI	✓	✓	✓	✓	✓	✓
102.	20811A0454	PITTA NAGA DURGA PRASAD	✓	✓	✓	✓	✓	✓
103.	20811A0455	POLUMURI APPALARAJU	✓	✓	✓	✓	✓	✓
104.	20811A0456	POTHU LAHARI	✓	✓	✓	✓	✓	✓
105.	20811A0458	R SAI KIRAN	✓	✓	✓	✓	✓	✓

106.	20811A0460	REDDY DHUSYANTH	✓	✓	✓	✓	✓	✓
107.	20811A0461	REVATHI MADDU	✓	✓	✓	✓	✓	✓
108.	20811A0462	ROUTHU SWETHASRI	✓	✓	✓	✓	✓	✓
109.	20811A0463	ROUTHU VENKATA DURGA PRASAD	✓	✓	✓	✓	✓	✗
110.	20811A0464	SANNIBOINA RAJESH	✓	✓	✓	✓	✓	✓
111.	20811A0465	SASAPU SATHEESH	✓	✓	✓	✓	✓	✓
112.	20811A0466	SHEIK JILANI	✓	✓	✓	✓	✓	✓
113.	20811A0467	SINGAMPALLI RAMADINESH	✓	✓	✓	✓	✓	✓
114.	20811A0468	TAMARANA HEMA ESWARI SAI KUMAR	✓	✓	✓	✓	✓	✓
115.	20811A0469	T MOHAN SAI	✓	✓	✓	✓	✓	✓
116.	20811A0470	UNDRAJAVARAPU DURGA RAO	✓	✓	✓	✓	✓	✓
117.	20811A0471	UPPATI DARABABU	✓	✓	✓	✓	✓	✓
118.	20811A0472	VANJARAPU THARUN KUMAR	✓	✓	✓	✓	✓	✓
119.	20811A0473	VANTEDDU BABU RAO	✓	✓	✓	✓	✓	✓
120.	20811A0474	VELAGA POOJITHA	✗	✓	✓	✓	✓	✓
121.	20811A0475	VOMMI SUMANTH	✓	✓	✓	✓	✓	✓
122.	20811A0476	YAKA POORNA VENKATESH	✓	✓	✓	✓	✓	✓
123.	20811A0477	YEDLA PUSHPA LATHA	✓	✓	✓	✓	✓	✓
124.	20811A0478	YENNI GNANESWARA RAO	✓	✓	✓	✓	✓	✓
125.	20811A0479	YERUVA BALESWAR REDDY	✓	✓	✓	✓	✓	✓
126.	20811A0481	KODUKULA ASWININ GANESH LIKITH KUMAR	✓	✓	✓	✓	✓	✓
127.	21815A0401	KANDREGULA GEETHA SRI LAKSHMI	✓	✓	✓	✓	✓	✓
128.	21815A0402	KUSIREDDI TULASIRAM	✓	✓	✓	✓	✓	✓
129.	21815A0403	LALAM KUSUMA NAGA GANA MALLIKA	✓	✓	✓	✓	✓	✓
130.	21815A0404	LANKA LAKSHMI SUBHA SRI HAVYA	✓	✓	✓	✓	✓	✓
131.	21815A0405	PARAVADA BHANU PRASAD	✓	✓	✓	✓	✓	✓
132.	21815A0406	POLAMARASETTI JAGADEESH	✓	✓	✓	✓	✓	✓
133.	21815A0407	PONNADA PRIYANKA	✓	✓	✓	✓	✓	✓
134.	21815A0408	POOLLA VENKATA SRIVANI BHARGAVI	✓	✓	✓	✓	✓	✓
135.	21815A0409	VANGURI POORNA SEKHAR	✓	✓	✓	✓	✓	✓
136.	21815A0410	YENUGULA MANEESHA	✓	✓	✓	✓	✓	✓
137.	21815A0411	CHEPURI HEMALATHA	✓	✓	✓	✓	✓	✓
138.	21815A0413	GARAGA SAMUEL BABU	✓	✓	✓	✓	✓	✓
139.	21815A0414	KISTAM MOUNIKA	✓	✓	✓	✓	✓	✓

140.	21815A0415	KONATHALA SASI KANTH	✓	✓	✓	✓	✓	✓
141.	21815A0416	PENTAKOTA JAYANTH	✓	✓	✓	✓	✓	✓
142.	21815A0417	SAMMETLA VARSHINI	✓	✓	✓	✓	✓	✓
143.	21815A0418	BODDAPATI YESWANTH	✓	✓	✓	✓	✓	✓
144.	21815A0419	SETTI UMA VENKATA VARALAKSHMI	✓	✓	✓	✓	✓	✓

G. Sandhya
Coordinator


HOD

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg.&Tech.
Makavarapalem, Visakhapatnam Dist-53- 113.



AVANTHI INSTITUTE OF ENGINEERING ANTECHNOLOGY

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,
ACCREDITED BY NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Course on

Zero to Chip Design using OpenPOWER

Dated :- 21/02/2022



E. Sandhya
Coordinator

[Signature]
Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-53- 113.



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Department of Electronics and Communication Engineering

Dt:01/03/2022

BRIEF REPORT

Avanathi Institute of Engineering and Technology had conducted a certification course on **"Zero to Chip Design using OpenPOWER"** From 21st Feb 2022 to 26th Feb 2022 in the Department of Electronics and Communication Engineering.

We had **Dr.PA.N: geswara Rao, Associate Professor, Depar ment of ECE, Gayatri vidya parist ad college,Rushikonda,Visakhapatnam** ir troduced open power and microwatt ope ation and evaluated GEM 5 processor.

Dr.J .Sudhakar,Pf ofessor,Department of ECE,Vignan's Institute of Engineering for Women,Vi: akhapatnam explained chip verification ,soc chip alliance and concluded with the design flow of chip.

G. Sandhya
Coordinator


Head of the Department

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Certificate of Participation

This is to certify that Mr./Ms. _____ of _____ has
Participated in the Certificate Course entitled on **Zero to Chip Design using Open POWER** conducted from
21-02-2022 to 26-02-2022 was organized by the Department of ELECTRONICS AND COMMUNICATION
ENGINEERING at Avanathi Institute of Engineering and Technology.

Coordinator

HOD

Principal