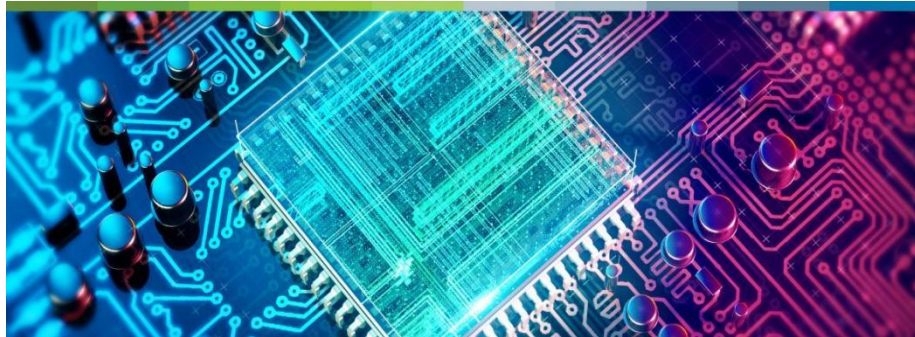


AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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Tamaram, Makavarapalem, Narsipatnam (RD),
Visakhapatnam-531113



Certificate Course
on
Embedded System Design

From 26th July 2018 to 01 August 2018



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

Fiber optic systems area unit vital telecommunication infrastructure for world-wide broadband networks. Wide information measure signal transmission with low delay could be a key demand in gift day applications. Optical fibers give huge and unexceeded transmission information measure with negligible latency, and area unit currently the transmission medium of alternative for long distance and high rate transmission in telecommunication networks. This paper offers an outline of fiber optic communication systems together with their key technologies, and conjointly discusses their technological trend towards future generation..

TOPICS TO BE COVERED

- **Day-1:** Introduction to Embedded system
- **Day-2:** Characteristics of an embedded system
- **Day-3:** Embedded Firmware Design
- **Day-4:** Hardware Software Co Design
- **Day-5:** Interrupt sources
- **Day-6:** Application-specific domain

For Registration please contact Mr.R. Aneel Kumar, 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 Sri. E. Govinda Head of the Department Electronics and Communication Engineering
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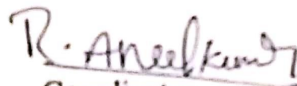
Department of electronics and communication Engineering


Dt: 02/08/2018.

BRIEF REPORT

Avanathi Institute of Engineering and Technology had organized a certificate course on "Embedded System Design" From 26th July 2018 to 01 August 2018 in the Department of electronics and communication Engineering.

We had Miss D. CHANDI RANI, APSSDC gave the introduction on Embedded Systems, 8051 family, Arduino and Arduino Programming. And also she demonstrated few projects using Arduino board covering LED Based Projects, Interfacing of switches with Arduino, LCD Based Projects and Motor Based Projects.


Coordinator


Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanathi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam - 531 113



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

Date: 23/07/2018.

This is informed to all the III B.Tech ECE students that our department is planning to conduct one week course on “*Embedded System Design*” scheduled from 26-07-2018 to 01-08-2018. It is directed to all the students of III ECE to utilize this opportunity to enhance your technical skills. For more details about registration process and participation contact Course Coordinator Mr R.Aneel Kumar, Assistant Professor, ECE.

Resource Person Details:

E .CHANDI RANI,

Andhra Pradesh State Skill Development Corporation

E. Govinda

Head of the Department,

ECE.

Copy to: Principal, AIET

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



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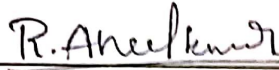
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Embedded System Design

From 26-07-2018 to 01-08-2018

SYLLABUS

- **Day-1:** Introduction to Embedded system
- **Day-2:** Characteristics of an embedded system
- **Day-3:** Embedded Firmware Design
- **Day-4:** Hardware Software Co Design
- **Day-5:** Interrupt sources
- **Day-6:** Application-specific domain

 E. Govinda CHAIRMAN & Head of the Department of Electronics and communication Engineering	 R. Aneel Kumar Asst. Professor Coordinator
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DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam District



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Embedded System Design

From 26th July 2018 to 1st August 2018

Schedule

Day-1 (26/07/2018)

09:00 to 10:00	Inaugural Session
10:00 to 12:00	Introduction to Embedded system
12:00 to 01:00	Lunch Break
01:00 to 04:00	Integrated circuits, programmable logic devices

Day-2 (27/07/2018)

09:00 to 12:00	Characteristics of an embedded system
12:00 to 01:00	Lunch Break
01:00 to 04:00	Quality attributes of embedded

Day-3 (28/07/2018)

09:00 to 12:00	Embedded Firmware Design Embedded Firmware design approaches,
12:00 to 01:00	Lunch Break
01:00 to 04:00	Embedded Firmware development languages, ISR concept,

Day-4 (30/07/2018)



09:00 to 12:00	Hardware Software Co Design Fundamental Issues In Hardware
12:00 to 01:00	Lunch Break
01:00 to 04:00	Software Co Design

Day-5 (31/07/2018)

09:00 to 12:00	Interrupt sources, Interrupt servicing mechanism Multiple Interrupts system.
12:00 to 01:00	Lunch Break
01:00 to 04:00	Explanation of mos switches

Day-6 (01/08/2018)

09:00 to 12:00	Application-specific and Domain- Specific examples of an embedded system.
12:00 to 01:00	Lunch Break
01:00 to 04:00	Terminating simulation and conclusion

 E. Govinda CHAIRMAN & Head of the Department Electronics and Communication Engineering	 R. Aneel Kumar Asst. Professor
	Coordinator

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



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Embedded System Design

From 26th JULY 2018 To 1st AUGUST 2018

III B.Tech ECE STUDENTS ATTENDANCE LIST

S.NO	Regd No	Name of the Student	26/7	27/7	28/7	30/7	31/7	1/8
1	16811A0401	ADDEPALLI NAVYA SRI	✓	✓	✓	✓	✓	✓
2	16811A0402	ALLA LAKSHMI	✓	✓	✓	✓	✓	✓
3	16811A0403	BAILAPUDI TARUN KUMAR	✓	✓	✓	✓	✓	✓
4	16811A0404	BALIREDDI MOHANKUMAR	✓	✓	✓	✓	✓	✓
5	16811A0405	BANTUPALLI BHASKAR RAO	✓	✓	✓	✓	✓	✓
6	16811A0406	BATHI SAI PRASANNA	✓	✓	✓	✓	✓	✓
7	16811A0407	BATTALA DILEEP KUMAR	✓	✓	✓	✓	✓	✓
8	16811A0408	BATTULA USHA	✓	✓	✓	✓	✓	✓
9	16811A0409	BIKKAVILLI SAMBASIVA RAO	✓	✓	✓	✓	✓	✓
10	16811A0410	BOBBILI VAMSI	✓	✓	✓	✓	✓	✓
11	16811A0411	BODDEDA SAIRAM	✓	✓	✓	✓	✓	✓
12	16811A0412	BOLEM VENKATA RAVI TEJA	✓	✓	✓	✓	✓	✓
13	16811A0413	BOMMALI LEELAMOHAN	✓	✓	✓	✓	✓	✓
14	16811A0414	BURRI MANASA	✓	✓	✓	✓	✓	✓
15	16811A0415	CHADARAM MOUNIKA NOOKA ADI KUMARI	✓	✓	✓	✗	✓	✓
16	16811A0416	CHINNI HEMANAGESWARA RAO	✓	✓	✓	✓	✓	✓
17	16811A0417	DATLA LAXMI SIVA SAHITHI	✓	✓	✓	✓	✓	✓
18	16811A0418	DIMILI RENUKA	✓	✓	✓	✓	✓	✓
19	16811A0419	DODDI GIRIDHAR SAI	✓	✓	✓	✓	✓	✓
20	16811A0420	GANGARAPU MANIKANTA RAJA VARA PRASAD	✓	✓	✓	✓	✓	✓
21	16811A0421	GANGUPAM MOUNIKA	✓	✓	✓	✓	✓	✓
22	16811A0422	GARAGA YUGA SRI	✓	✓	✓	✓	✓	✓
23	16811A0423	HITHESHI SANJAY HAZARNIS	✓	✓	✓	✓	✓	✓
24	16811A0424	KAKI LALITHA	✓	✓	✓	✓	✓	✓
25	16811A0425	KOLLI JAYASRI	✓	✓	✓	✓	✓	✓
26	16811A0426	KONCHA ARJUNAMMA	✓	✓	✓	✓	✓	✓
27	16811A0427	KOSANA ASWINI	✓	✓	✓	✓	✓	✓
28	16811A0428	KOTA CHITTIBABU	✓	✓	✓	✓	✓	✓
29	16811A0429	KOYLADA V V PARASURAM	✓	✓	✓	✓	✓	✓
30	16811A0430	KUNDRAPU SUSEELA	✓	✓	✓	✓	✓	✓
31	16811A0431	KUPPILI CHANDAN MEHER	✓	✓	✓	✓	✓	✓
32	16811A0432	KURACHA MADHU TRINADH	✓	✓	✓	✓	✓	✓
33	16811A0433	LALAM REVATHI	✓	✓	✓	✓	✓	✓
34	16811A0434	MAKIREDDI RAMADEVI	✓	✓	✓	✓	✓	✓
35	16811A0435	MAKIREDDI VENKATA SIREESHA	✓	✓	✓	✓	✓	✓
36	16811A0436	MALLA PUSPARCHANA	✓	✓	✓	✓	✓	✓

37	16811A0437	MATA SAI LAKSHMI	✓	✓	✓	✓	✓	✓
38	16811A0438	MATURU MANIKANTHA	✓	✓	✓	✓	✓	✓
39	16811A0439	MOURYA SANDEEP	✓	✓	✓	✓	✓	✓
40	16811A0440	MUKTA VISHNU	✓	✓	✓	✓	✓	✓
41	16811A0441	MUNAGAPAKA LOVAKUMARI	✓	✓	✓	✓	✓	✓
42	16811A0442	MUNJETI UMA SRI	✓	✓	✓	✓	✓	✓
43	16811A0443	NABA SAILAKSHMI PRASANNA	✓	✓	✓	✓	✓	✓
44	16811A0444	NANDIPALLI SRI NAVYA	✓	✓	✓	✓	✓	✓
45	16811A0445	NEERUKATTU MAHESH	✓	✓	✓	✓	✓	✓
46	16811A0446	PALLA SRINIVAS	✓	✓	✓	✓	✓	✓
47	16811A0447	PEDIREDLA SAILAKSHMI	✓	✓	✓	✓	✓	✓
48	16811A0448	PENTAKOTA ALEKHYA	✓	✓	✓	✓	✓	✓
49	16811A0449	PILAKA VINEETHAREDDY	✓	✓	✓	✓	✓	✓
50	16811A0450	POLIMERA GAJAPATHI	✓	✓	✓	✓	✓	✓
51	16811A0451	POOSALA VIJAYA BABU	✓	✓	✓	✓	✓	✓
52	16811A0452	PUSARLA SAI KEERTHANA	✓	✓	✓	✓	✓	✓
53	16811A0453	RACHAPATTI HAREESH	✓	✓	✓	✓	✓	✓
54	16811A0454	RAPETI BHARATH SAI	✓	✓	✓	✓	✓	✓
55	16811A0455	RAPETI SRINIVAS	✓	✓	✓	✓	✓	✓
56	16811A0457	SAPPA KOMALI	✓	✓	✓	✓	✓	✓
57	16811A0458	SARAGADAM MANEENDRA	✓	✓	✓	✓	✓	✓
58	16811A0459	SUNDARAPU SURYAKALA	✓	✓	✓	✓	✓	✓
59	16811A0460	SURLA ROHINI	✓	✓	✓	✓	✓	✓
60	16811A0461	THAMADA RAASI	✓	✓	✓	✓	✓	✓
61	16811A0462	TOGARU KRANTHI	✓	✓	✓	✓	✓	✓
62	16811A0463	UDDANDAM MADHAV KUMAR	✓	✓	✓	✓	✓	✓
63	16811A0464	VARADA KUMAR	✓	✓	✓	✓	✓	✓
64	16811A0465	VASIREDDY VISHNU VARDHAN	✓	✓	✓	✓	✓	✓
65	16811A0466	VIJAY PRASAD	✓	✓	✓	✓	✓	✓
66	16811A0467	VIVEK PATNAIK	✓	✓	✓	✓	✓	✓
67	16811A0468	VOMMI SAEBHA RANI	✓	✓	✓	✓	✓	✓
68	16811A0469	VYAKARANAM LALITHA MOUNIKA	✓	✓	✓	✓	✓	✓
69	16811A0470	YERRAMSETTI PRASAD	✓	✓	✓	✓	✓	✓
70	15811A0448	MEDISETTY SAI SRI (Re-Admitted)	✓	✓	✓	✓	✓	✓
71	17815A0401	ADARI EEPSITHA	✓	✓	✓	✓	✓	✓
72	17815A0402	BONTHU RAMESH BABU	✓	✓	✓	✓	✓	✓
73	17815A0403	CHITIKELA VENKATESH	✓	✓	✓	✓	✓	✓
74	17815A0404	CHUKKA SRINIVAS	✓	✓	✓	✓	✓	✓
75	17815A0405	CHUKKALA NANDINI	✓	✓	✓	✓	✓	✓
76	17815A0406	DALIYA NAGESWARARAO	✓	✓	✓	✓	✓	✓
77	17815A0407	KADIMISETTI MANIKANTA	✓	✓	✓	✓	✓	✓
78	17815A0408	KAMIREDDI SWATHI	✓	✓	✓	✓	✓	✓
79	17815A0409	LOKA DEVI PRASAD	✓	✓	✓	✓	✓	✓
80	17815A0410	MAJJI NAGA SREENU	✓	✓	✓	✓	✓	✓
81	17815A0411	MALASALA NARENDRA KUMAR	✓	✓	✓	✓	✓	✓

82	17815A0412	NANDARAPU HARI BHANU PRASAD	✓	✓	✓	✓	✓	✓
83	17815A0413	NARAPUREDDY JOSH NARAMYA	✓	✓	✓	✓	✓	✓
84	17815A0414	NUKARAPU SAIRAM	✓	✓	✓	✓	✓	✓

R. Anel Kumar

Coordinator

[Signature]

H O D

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



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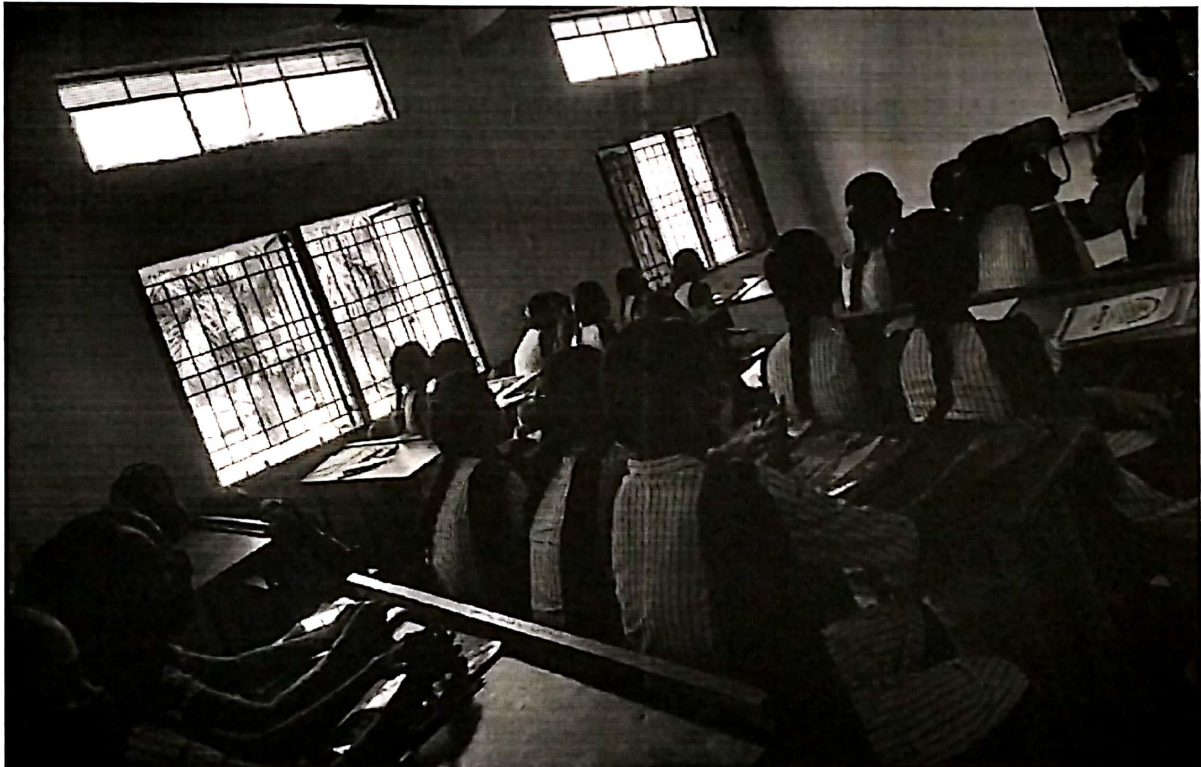
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Course on

Embedded System Design

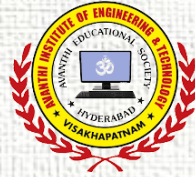
Dated :- 26/07/2018



R. Anelkumar
Coordinator

[Signature]
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Certificate of Participation

This is to certify that Mr./Ms. _____ of _____ has participated in the Certificate Course entitled on *Embedded System Design* conducted from 26-07-2018 to 01-08-2018 was organized by the Department of Electronic and Communication Engineering at Avanathi Institute of Engineering and Technology.

Coordinator

HOD

Principal