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Visakhapatnam-531113



Certificate Course

on

5G and Wireless Communication for Beginners

From 10th February 2020 to 15th February 2020



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 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

5G, the **5th Generation of Wireless Mobile Communication** has taken 2019 by storm! Some people are making optimistic expectations, some are making ridiculous theories while others are awaiting any and every update about 5G. If we look at a few decades in the past... 1G, 2G, 3G and 4G have changed our social, professional and personal lives drastically. Yet 5G is expected to be the biggest game-changer of all which is amazing but not surprising!

TOPICS TO BE COVERED

- ➤ **Day-1:** Introduction 1G is Where All of it Began
- **Day-2:** Going Digital with 2G
- ➤ **Day-3:** Expanding Mobile internet with 3G
- **Day-4:** Higher-Further-Faster with 4G
- > **Day-5:** Open up the Future with 5G
- **Day-6:** 5G Update -2020

For registration please contact Miss B.Maha Laxmi, 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

CIRCULAR

Date: 06/02/2020

This is for informed to all the IV B.Tech ECE students that our department is planning to conduct one week course on "5G AND WIRELESS COMMUNICATIONS FOR BEGINNERS" scheduled from 10-02-2020 to 15-02-2020. It is directed to all the students of IV ECE to utilize this opportunity to enhance your technical skills. For more details about registration process and participation contact Course Coordinator Miss.B.Maha Laxmi, Assistant Professor, ECE.

Resource Person Details:

- I r. M.Rajan Babu,
 Professor,
 I epartment of ECE,
 I endi institute of engineering and technology,
 Vizianagaram.
- 2. I r .PA. Nageswara Rao
 A ssociate Professor,
 I epartment of ECE,
 C ayatri vidya parishad college, Rushikonda,
 V isakhapatnam.

Head of the Department,

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

Copy to: Principal, AIET



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5G and Wireless Communication for Beginners

From 10-02-2020 to 15-02-2020

SYLLABUS

- Day-1: INTRODUCTION 1G IS WHERE ALL OF IT BEGAN
- Day-2:GOING DIGITAL WITH 2G
- Day-3: EXPANDING MOBILE INTERNET WITH 3G
- Day-4: HIGHER-FURTHER-FASTER WITH 4G
- Day-5: OPENING UP THE FUTURE WITH 5G
- Day-6: 5G UPDATE -2020

E.Govinda
CHAIRMAN
&
B.Maha Laxmi
Asst. Professor
&
Head of the Department
Electronics and communication Ent ineering

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



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5G and Wireless Communications for Beginners

From 10-02-2020 to 15-02-2020

Schedule

Day-1 (10/02/20)

09:00 to 10:00	Intent Behind 1G
10:00 to 12:00	Understanding Frequency Modulation
12:00 to 01:00	Lunch Break
01:00 to 04:00	Issues of 1G

Day-2 (11/02/2020)

09:00 to 12:00	Going digital v ith 2G	
12:00 to 01:00	Lunch Break	
01:00 to 04:00	Securing 2G	

Day-3(12/02/2020)

09:00 to 12:00	Intention Behind 3G	
12:00 to 01:00	Lunch Break	-
01:00 to 04:00	Understandin cellular call hand-offs	

Day-4(13/02/2020)

09:00 to 12:00	Intention Behind 4G	
12:00 to 01:00	Lunch Break	
01:00 to 04:00	Understandin Circuit based switching and Packet-switched net	orks

Day-5(14/02/2020)

09:00 to 12:00	The Intention behind 5G
12:00 to 01:00	Lameli Brenk
01:00 to 04:00	Understanding 5G new Radio
of comment of the Com	Control to the transition of the property of the property of the transition of the t

Day-6(15/02/2020)

09:00 to 12:00	5G standards
12:00 to 01:00	Lunch Break
01:00 to 04:00	Software Defined Networking and Infrastructure as Code
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L.Govinda CHAIRMAN

Head of the Department Electronics and communication Engineering) IS,Maha Laxmi Asst. Professor

Coordinator

HEAD OF THE DEPARTMENT DEPARTMENT OF ECE

AVAILTH INSULITE OF ENGL & Toch.

Makavarapalem, Visakhapatham (2021-53): 113



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5G and Wireless Communications for Beginners From 10th February 2020 to 15th February 2020

IV B.Tech ECE STUDENTS ATTENDANCE LIST

0.55			T	14 12 2	40.00	10/02	14/02	15/02
S.NO	Regd No	Name of the Student	10/02	11/02	12/02	13/02	14/02	15/02
1	16811A0401	ADDEPALLI NAVYA SRI	/	//	1	/	1	1/
2	16811A0402	ALLA LAKSHMI	1	/		/ ,		
3	16811A0403	BAILAPUDI TARUN KUMAR			/			
4	16811A0404	BALIREDDI MOHANKUMAR		/	/	/		
5	16811A0405	BANTUPALLI BHASKAR RAO			/		/	
6	16811A0406	BATHI SAI PRASANNA					/	
7	16811A0407	BATTALA DILEEP KUMAR		1		/		
8	16811A0408	BATTULA USHA		V	V	1/		
9	16811A0409	BIKKAVILLI SAMBASIVA RAO		1/		./	1/	/
10	16811A0410	BOBBILI VAMSI	V	1	./		~	
11	16811A0411	BODDEDA SAIRAM		1			V	V
12	16811A0412	BOLEM VENKATA RAVI TEJA			./	./		1/
13	16811A0413	BOMMALI LEELAMOHAN						
14	16811A0414	BURRI MANASA				~		
15	16811A0415	CHADARAM MOUNIKA NOOKA ADI KUMARI		/	/			
16	16811A0416	CHINNI HEMANAGESWARA RAO					1/	
17	16811A0417	DATLA LAXMI SIVA SAHITHI		./	X			./
18	16811A0418	DIMILI RENUKA		V	1			1/
19	16811A0419	DODDI GIRIDHAR SAI		1/		1		
20	16811A0420	GANGARAPU MANIKANTA RAJA VARA PRASAD		V			/	/
21	16811A0421	GANGUPAM MOUNIKA	1/					
22	16811A0422	GARAGA YUGA SRI			V	1/		
23	16811A0423	HITHESHI SANJAY HAZARNIS		1/		1/		V
24	16811A0424	KAKI LALITHA		1		V	1/	
25	16811A0425	KOLLI JAYASRI	./		1/	/	1	V
26	16811A0426	KONCHA ARJUNAMMA			1		V	
27	16811A0427	KOSANA ASWINI		V	1			
28	16811A0428	KOTA CHITTIBABU			./			
29	16811A0429	KOYILADA V V PARASURAM	./		V			
30	16811A0430	KUNDRAPU SUSEELA			~		V	
31	16811A0431	KUPPILI CHANDAN MEHER		1	V	-		
32	16811A0432	KURACHA MADHU TRINADH	1		V	/		
33	16811A0433	LALAM REVATHI		. /	V			
34	16811A0434	MAKIREDDI RAMADEVI			1/			
35	16811A0435	MAKIREDDI VENKATA SIREESHA		1	r/~		/	
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John.

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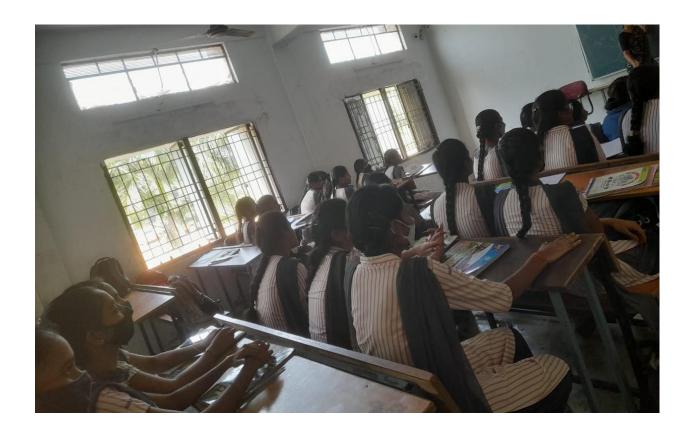
HEAD OF THE DEPARTMENT DEPARTMENT OF ECE Avanthi Institute of Engg. & Tech. Makayarapalam, Visakhapatnam Dist-53-113.

(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

5G AND WIRELESS COMMUNICATION FOR BEGINNERS

Dated -: 10/02/2020



Coordinator



AVANTHI

INSTITUTE OF ENGINEERING AND TECHNOLOG

(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-53111

Certificate of Participation

This is to certify that Mr./Ms	of	has
participated in the Certificate Course entitled on 5G A	AND WIRELESS COMMUI	NICATION FOR BEGINNERS
conducted from 10-02-2020 to 15-02-2020 was organ	nized by the Department of I	ELECTRONICS AND COMMUNICATION
ENGINEERINGAt Avanthi Institute of Engineering and Te	echnology.	

Coordinator HOD Principal



(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

Dt: 21/02/2020

BRIEF REPORT

Avanthi Institute of Engineering and Technology had organized a certificate course on "5G and wireless communication for beginners" From 10th Feb 2020 to 15th Feb 2020 in Department of Electronics and Communication Engineering

We had **Dr. M.** ajan Babu, Professor, Department of EC , Lendi institute of engineering and technology, Vizianagaramas a speaker to explain what exactly is 5G and 5G is like an entry pass for some of the following technologies to comfortably take over the commercial market

Dr.PA.Nagesv ara Rao, Associate Professor, Department of ECE, Gayatri vidya parishad college, Rushikonda, Visakhapatnam concluded 5g wireless is meant to deliver higher multi gbps peak data speed ultra low latency, more reliability, massive network capacity, increased availability and more uniform user experience to more users, higher performance and improved efficiency empower new user experiences and connects new industries.

oordinator

HOD

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