

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*

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

From 16th JULY 2018 to 21 JULY 2018



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

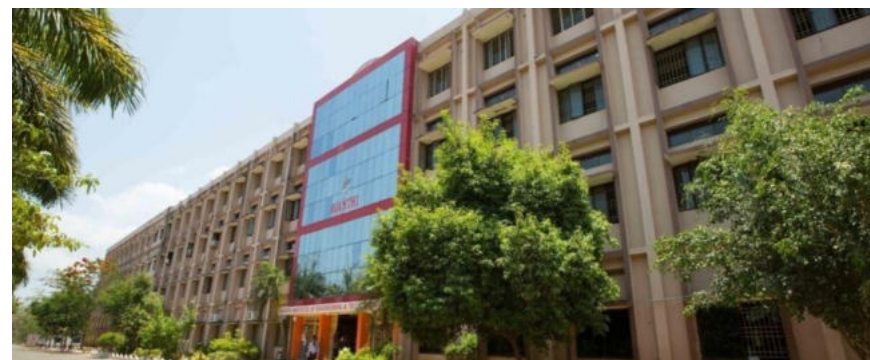
AVANTHI EDUCATIONAL SOCIETY

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 are a 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 are a 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: Linux for Data Science/ Machine Learning

Day-2: Python Foundations

Day-3: Getting Started with Git

Day-4: Machine Learning Prerequisites (Including Numpy, Pandas and Linear Algebra)

Day-5: Getting Started with SQL

Day-6: Statistics Foundations

For Registration please contact Miss B.Ajitha Teja, 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: 12/07/2018

This is for informed to all the IV B.Tech ECE students that our department is planning to conduct one week course on “INTRODUCTION TO ARTIFICIAL INTELLIGENCE” scheduled from 16-07-2018 to 21-07-2018. 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.Ajitha Teja, Assistant Professor, ECE.

Resource Person Details:

1. Dr. RAMAKRISHNA,
Professor,
Department of ECE,
NIT Warangal.

2. Dr. TSN Murthy,
Professor,
Department of ECE,
JNTU Vizianagaram.


E. Govinda

Head of the Department,
ECE.

Copy to: Principal, AIET

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



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INTRODUCTION TO ARTIFICIAL INTELLIGENCE

From 16th July 2018 to 21st July 2018

SYLLABUS

Day-1: Linux for Data Science/ Machine Learning

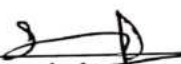
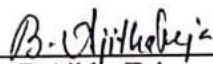
Day-2: Python Foundations

Day-3: Getting Started with Git

Day-4: Machine Learning Prerequisites (Including Numpy, Pandas and Linear Algebra)

Day-5: Getting Started with SQL

Day-6: Statistics Foundations

 E. Govinda CHAIRMAN & Head of the Department Electronics and communication Engineering	 B. Ajitha Teja Asst. Professor
	Coordinator

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
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INTRODUCTION TO ARTIFICIAL INTELLIGENCE

From 16th July 2018 to 21st July 2018

Schedule

Day-1 (16/07/2018)

09:00 to 10:00	Introduction to Machine Learning and Deep Learning
10:00 to 12:00	Data Preprocessing, Regression - Build end-to-end Machine Learning Project
12:00 to 01:00	Lunch Break
01:00 to 04:00	classification like Confusion Matrix, Precision and Recall, and ROC Curve.

Day-2 (17/07/2018)

09:00 to 12:00	Machine Learning Algorithms
12:00 to 01:00	Lunch Break
01:00 to 04:00	Introduction to Artificial Neural Networks with Keras

Day-3 (18/07/2018)

09:00 to 12:00	Training Deep Neural Networks
12:00 to 01:00	Lunch Break
01:00 to 04:00	Custom Models and Training with TensorFlow

Day-4 (19/07/2018)

09:00 to 12:00	Loading and Preprocessing Data with TensorFlow
12:00 to 01:00	Lunch Break
01:00 to 04:00	Deep Computer Vision using Convolutional Neural Network



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INTRODUCTION TO ARTIFICIAL INTELLIGENCE

From 16TH JULY 2018 To 21ST JULY 2018

IV B.Tech ECE STUDENTS ATTENDANCE LIST

S.NO	ROLL NO	STUDENT NAME	16/7	17/7	18/7	19/7	20/7	21/7
1	14811A0401	ADDEPALLI Y N R SABAREESH	✓	✓	✓	✓	✓	✓
2	14811A0402	AKULA VEERRAJU	✓	✓	✓	✓	✓	✓
3	14811A0403	ALLA SAI SOWJANYA	✓	✓	✓	✓	✓	✓
4	14811A0404	ARUN KUMAR YANDAKURTI	✓	✓	✓	✓	✓	✓
5	14811A0405	ATLA MANOJ KUMAR	✓	✓	✓	✓	✓	✓
6	14811A0406	BANDAM ARUNA	✓	✓	✓	✓	✓	✓
7	14811A0407	BATTULA RAKESH	✓	✓	✓	✓	✓	✓
8	14811A0409	BOTCHA SRILATHA	✓	✓	✓	✓	✓	✓
9	14811A0410	CHINTAKAYALA RAMU	✓	✓	✓	✓	✓	✓
10	14811A0411	DATTI ATCHUTARAO	✓	✓	✓	✓	✓	✓
11	14811A0413	DUNGALA RAMA DEVI	✓	✓	✓	✓	✓	✓
12	14811A0414	ETAMSETTI GOWTHAMI	✓	✓	✓	✓	✓	✓
13	14811A0415	GATTA SAI KIRAN	✓	✓	✓	✓	✓	✓
14	14811A0416	GAVIREDDI DEVI	✓	✓	✓	✓	✓	✓
15	14811A0417	GEDDAM JYOTHI	✓	✓	✓	✓	✓	✓
16	14811A0418	GOLLU GOPAL	✓	✓	✓	✓	✓	✓
17	14811A0419	GUMMALA POOJA BHARATI	✓	✓	✓	✓	✓	✓

18	14811A0420	GUNDUBOGULA ABHIPRIYA	✓	✓	✓	✓	✓	✓
19	14811A0421	GUNTA SRILEKHA	✓	✓	✓	✓	✓	✓
20	14811A0422	IMMIDISETTI PRIYANKA	✓	✓	✓	✓	✓	✓
21	14811A0423	JAVVADI CHAKRA SAI	✓	✓	✓	✓	✓	✓
22	14811A0424	JYOTHI SUNDEEP KUMAR	✓	✓	✓	✓	✓	✓
23	14811A0425	KACHCHALLA KUMARI	✓	✓	✓	✓	✓	✓
24	14811A0426	KADARI SRINU	✓	✓	✓	✓	✓	✓
25	14811A0428	KALLA DURGA BHAVANI	✓	✓	✓	✓	✓	✓
26	14811A0429	KALLA NAGENDRA	✓	✓	✓	✓	✓	✓
27	14811A0430	KANDREGULA RAVI	✓	✓	✓	✓	✓	✓
28	14811A0431	KANNURU PADMAJA	✓	✓	✓	✓	✓	✓
29	14811A0433	KOLLANA CHAITANYA	✓	✓	✓	✓	✓	✓
30	14811A0434	KOLLI ANVESH	✓	✓	✓	✓	✓	✓
31	14811A0435	KORASALA BHASKAR	✓	✓	✓	✓	✓	✓
32	14811A0436	KOTA VANITHA	✓	✓	✓	✓	✓	✓
33	14811A0438	LEKKALA RAMATULASI	✓	✓	✓	✓	✓	✓
34	14811A0440	MAKIREDDI CHINNA	✓	✓	✓	✓	✓	✓
35	14811A0442	MEESALA KEERTHI PRIYA	✓	✓	✓	✓	✓	✓
36	14811A0443	MOGALAPALLI ALEKYA	✓	✓	✓	✓	✓	✓
37	14811A0445	NAUGAPU HARISH	✓	✓	✓	✓	✓	✓
38	14811A0446	NOOTHI SIRISHA	✓	✓	✓	✓	✓	✓
39	14811A0447	PAKKURTHI VISWANADH	✓	✓	✓	✓	✓	✓

40	14811A0450	POLISETTY CHARMILA	✓	✓	✓	✓	✓	✓
41	14811A0452	PRASADI MANJULA	✓	✓	✓	✓	✓	✓
42	14811A0453	PUTRUPAKALA RESHMA	✓	✓	✓	✓	✓	✓
43	14811A0455	RAPETI JAGADEESH KUMAR	✓	✓	✓	✓	✓	✓
44	14811A0457	REDDI SAILAJA	✓	✓	✓	✓	✓	✓
45	14811A0458	RUTTALA JYOTHI	✓	✓	✓	✓	✓	✓
46	14811A0459	RUTTALA REVATHI	✓	✓	✓	✓	✓	✓
47	14811A0461	SAYYAPUREDDY SUSHMA	✓	✓	✓	✓	✓	✓
48	14811A0463	SHAIK INTYAZ BASHA	✓	✓	✓	✓	✓	✓
49	14811A0464	SIRAM ROHINI PRIYANKA	✓	✓	✓	✓	✓	✓
50	14811A0466	SUNKARA SANTHOSH	✓	✓	✓	✓	✓	✓
51	14811A0467	TETAKALLI SHIVA KUMAR	✓	✓	✓	✓	✓	✓
52	14811A0468	THAMIRI MALLIKARJUN	✓	✓	✓	✓	✓	✓
53	14811A0469	TUMMALAPALLI SWAMINADH	✓	✓	✓	✓	✓	✓
54	14811A0470	TWINKLA UPADHYAY	✓	✓	✓	✓	✓	✓
55	14811A0471	UGGINA HARISH	✓	✓	✓	✓	✓	✓
56	14811A0472	VADDI RAVI KUMAR	✓	✓	✓	✓	✓	✓
57	14811A0475	VASANTHAVADA SAI KRISHNA	✓	✓	✓	✓	✓	✓
58	14811A0476	VIYYAPU VARAHA ANIL KUMAR	✓	✓	✓	✓	✓	✓
59	14811A0477	Y BIMBADHAR	✓	✓	✓	✓	✓	✓
60	14811A0478	YERRA PREM KUMAR	✓	✓	✓	✓	✓	✓

61	14811A0479	YERUBOLU RAMYA	✓	✓	✓	✓	✓	✓
62	14811A0480	LAGUDU ROHINI	✓	✓	✓	✓	✓	✓
63	15815A0401	ALLU CHANDRA SEKHAR	✓	✓	✓	✓	✓	✓
64	15815A0402	ALLUGOLU HARI KRISHNA	✓	✓	✓	✓	✓	✓
65	15815A0403	BANDARUPALLI BALAJI	✓	✓	✓	✓	✓	✓
66	15815A0404	CHITIKILA GOVINDA	✓	✓	✓	✓	✓	✓
67	15815A0405	DODDI SYAM	✓	✓	✓	✓	✓	✓
68	15815A0406	DUVVADA PREM KUMAR	✓	✓	✓	✓	✓	✓
69	15815A0407	EKAMBERAN RAKESH	✓	✓	✓	✓	✓	✓
70	15815A0408	GATREDDI RAJU	✓	✓	✓	✓	✓	✓
71	15815A0409	JALLI LAKSHMI	✓	✓	✓	✓	✓	✓
72	15815A0410	JAMMULA SANTHOSHKUMAR	✓	✓	✓	✓	✓	✓
73	15815A0411	KOMMANA RAJESH	✓	✓	✓	✓	✓	✓
74	15815A0412	KOPPOJU VARAPRASAD	✓	✓	✓	✓	✓	✓
75	15815A0413	MADANADAPU ANANDU	✓	✓	✓	✓	✓	✓
76	15815A0414	MALLA SAI NAIDAMMA	✓	✓	✓	✓	✓	✓
77	15815A0415	MATRU SRINIVAS	✓	✓	✓	✓	✓	✓
78	15815A0416	NAKKINA BHAVYA	✓	✓	✓	✓	✓	✓
79	15815A0417	NEELI SATYANARAYANA	✓	✓	✓	✓	✓	✓
80	15815A0418	NUTIGATTU SAI KRISHNA	✓	✓	✓	✓	✓	✓
81	15815A0419	PALIPINI VENKATESH	✓	✓	✓	✓	✓	✓
82	15815A0420	PALLA TEJA	✓	✓	✓	✓	✓	✓
83	15815A0421	PEDIREDLA SIVA RAMA KRISHNA	✓	✓	✓	✓	✓	✓
84	15815A0422	PYLA RAJYA	✓	✓	✓	✓	✓	✓

		LAKSHMI						
85	15815A0423	REDDI BHARGAVARAJU	✓	✓	✓	✓	✓	✓
86	15815A0424	REDDI VARA LAKSHMI	✓	✓	✓	✓	✓	✓
87	15815A0425	RONGALA MANIKANTA	✓	✓	✓	✓	✓	✓
88	15815A0426	RONGALI SANDEEP KUMAR	✓	✓	✓	✓	✓	✓
89	15815A0427	SATAGHOPAM SAI PAVAN KUMAR	✓	✓	✓	✓	✓	✓
90	15815A0428	SINGAMPALLI GANGADHAR	✓	✓	✓	✓	✓	✓
91	15815A0429	SINGULURI BALAJI SIVA GANESH	✓	✓	✓	✓	✓	✓
92	15815A0430	SUREDDI SANDHYA	✓	✓	✓	✓	✓	✓
93	15815A0431	SURLA SAI	✓	✓	✓	✓	✓	✓
94	15815A0432	TALACHUTLA NAGABHUSHAN RAO	✓	✓	✓	✓	✓	✓
95	15815A0433	THATAVARTHI GOPI	✓	✓	✓	✓	✓	✓
96	15815A0434	UGGINA VENKATALAKSHMI	✓	✓	✓	✓	✓	✓
97	15815A0435	YELAMANCHILI RAGHU VARMA	✓	✓	✓	✓	✓	✓

B. Ajithkumar

Coordinator

S. S. S.
HOD

HEAD OF THE DEPARTMENT
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Avanathi Institute of Engg. & Tech.
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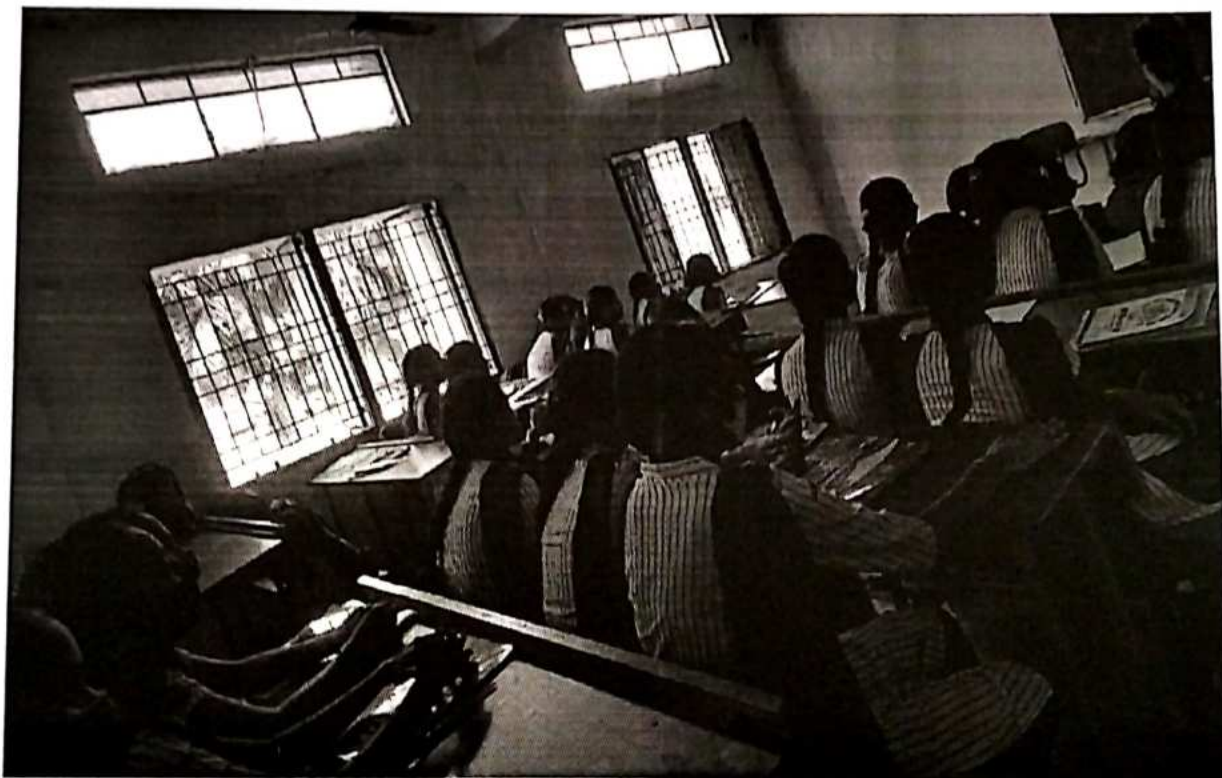
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Course on

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Dated :- 16/07/2018




Coordinator


HOD

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

Day-5(20/07/2018)

09:00 to 12:00	Processing Sequences Using RNNs and CNNs
12:00 to 01:00	Lunch Break
01:00 to 04:00	Natural Language Processing Concepts and RNNs

Day-6(21/07/2018)

09:00 to 12:00	Representation Learning & Generative Learning Using autoencoders
12:00 to 01:00	Lunch Break
01:00 to 04:00	Reinforcement Learning


E. Govinda
CHAIRMAN
&

Head of the Department
Electronics and communication Engineering


B. Ajitha Teja
Asst. Professor

Coordinator

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-531 111



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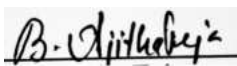
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Department of Electronics and Communication Engineering

Dt: 26/07/2018.

BRIEF REPORT

Avanathi Institute of Engineering and Technology had organized a certificate course on "Introduction To Artificial Intelligence" From 16th July 2018 To 21st JULY 2018 in the Department of electronics and communication Engineering.

We had Dr. RAMAKRISHNA, Professor, Department of ECE, NIT Warangal introduced this Courses is designed for those who want to gain hands-on experience in solving real-life problems using deep learning.

Dr.TSN Murthy, Professor, Department of ECI, JNTU Vizianagaram, elaborated after finishing this specialization, we will find creative ways to apply our learning to our work like building a robot which can recognize faces or change the path after discovering obstacles on the path.

Coordinator

Head of the Department

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DEPARTMENT OF ECE
Avanathi Institute of Engg.&Tech.
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Certificate of Participation

This is to certify that Mr./Ms. _____ of _____ has
Participated in the Certificate Course entitled on **INTRODUCTION TO ARTIFICIAL INTELLIGENCE** conducted
from 16-07-2018 to 21-07-2018 was organized by the Department of **ELECTRONICS AND COMMUNICATION
ENGINEERING** at Avanathi Institute of Engineering and Technology.

Coordinator

HOD

Principal