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Visakhapatnam-531113



Certificate Course

n

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 inworkshops, 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: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 (ourse Coordinator Miss B.Ajitha Teja,Assis ant Professor, ECE.

Resource Person Details:

1.Di.RAMAKRISHNA,
Pr fessor,
Department of ECE,
NIT Warangal.

2. Di.TSN Murthy,Pr∘fessor,Department of ECE,JNTU Vizianagaram.

E. Govindã

Head of the Department,

ECE.

Copy to: Principal, AIET

HEAD OF THE DEPARTMENT

DEPARTMENT OF ECE

Avanthi Institute of Engg. & Tech.

Makavarapalem. Visakhapatnam Dist-53: 113.



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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

&
Chairman

&
Coordinator

Head of the Department
Electronics and communication Engineering

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

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

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

From 16TH JULY 2018 To 21ST JULY 2018

IV B.Tech ECE STUDENTS ATTENDANCE LIST

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B. Mithely's

Coordinator

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



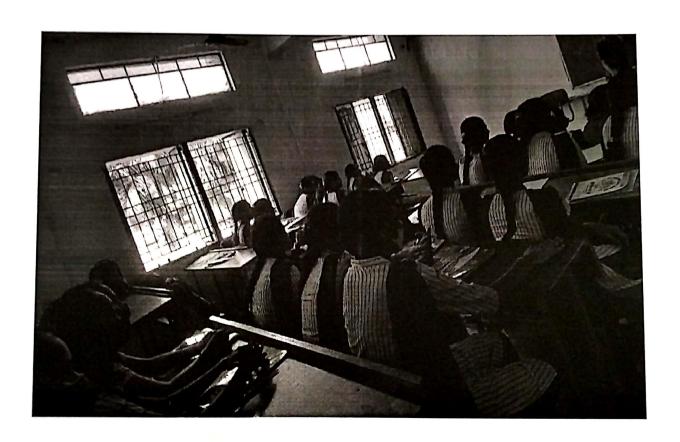
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Course on

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Dated :- 16/07/2018



B. Ajithely's Coordinator

> HEAD OF THE DEPARTMENT DEPARTMENT OF ECE Avanthi Institute of Engg.&Tech.

> Makavarapalem, Visakhapatnam Dist-53° 113.

Day-5(20/07/2018)

The second secon	CV 1 - DAINIS and CNNs
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

Salarinda .

B.Govinda CHAIRMAN

Head of the Department Electronics and communication Engineering B.Ajitha Teja Asst. Professor

Coordinator

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



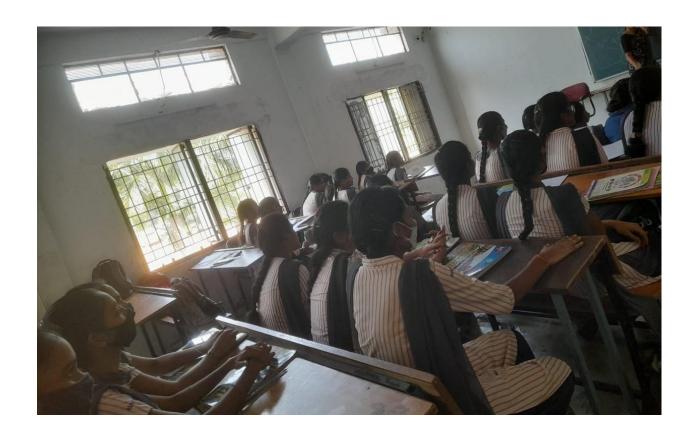
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Department of Electronics and Communication Engineering

Dt: 26/07/2018.

BRIEF REPORT

Avanthi 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 introdu ed 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

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



AVANTHI

INSTITUTE OF ENGINEERING AND TECHNOLOGY

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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 INTRODUCTION TO A	RTIFICIAL INTELLIGE	NCE conducted
from 16-07-2018 to 21-07-2018 was organized by the Department of	ELECTRONICS AND C	OMMUNICATION
ENGINEERING at Avanthi Institute of Engineering and Technology.		

Coordinator HOD Principal