

Estd : 2008



# TRINITY

## COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUH & SBTET)

JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

### List of Certificate/ Add-on Programs

Academic Year: 2017-18

S.No	Name of the Program	Duration of Course	No. of Participants
1	A two week certificate program on "Machine Learning & Artificial Intelligence"	26-02-2018 to 10-03-2018	64
2	A two week certificate program on "Wireless Telecommunication Network Operating On Optical Frequency"	26-02-2018 to 10-03-2018	53
3	A two week certificate program on "Application Of Computational Intelligence In Modelling And Control"	12-02-2018 to 24-02-2018	35
4	A two week certificate program on "Data Mining for advanced analytics"	01-11-2017 to 14-11-2017	76
5	A two week certificate program on "Switching Theory And Logic Design And It's Applications"	18-08-2017 to 31-08-2017	55
6	A two week certificate program on "Role of PLC programming in manufacturing industry"	14-08-2017 to 26-08-2017	70
7	A two week certificate program on "Opportunities For MBA Students"	10-07-2017 to 22-07-2017	66

  
**PRINCIPAL**  
**Dr. Nagendra Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

Estd : 2008



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Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 22-02-2018

### CIRCULAR

It is hereby informed to all B.Tech II, III & IV year students that our college is conducting A Two Week Certificate Program on "MACHINE LEARNING & ARTIFICIAL INTELLIGENCE" from 26-02-2018 to 12-03-2018. All the students register their names to coordinator listed below on or before 26-02-2018. Hence, all the students are hereby informed to attend the classes without fail.

**Venue:** Lab No-101, Block-1.

**Co-ordinator:** Mr.J. Shekar

Asst.Prof (Dept.CSE)

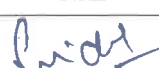




Contact No :9959120391

Mail id: shekarjakkula@gmail.com

**Copy to:**

The All HOD's  
Notice boards

  
**PRINCIPAL**  
**Dr. Nagender Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

CSE	ECE	EEE	MBA	H&S
				

**TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**KARIMNAGAR- 505001**

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DAY WISE SCHEDULE ON TWO WEEK CERTIFICATE PROGRAM ON  
“**MACHINE LEARNING & ARTIFICIAL INTELLIGENCE**”  
FROM(26-02-2018 to 12-03-2018), DEPARTMENT OF CSE

S.No	Date	Topics
1	26-02-2018	Artificial Intelligence
2	27-02-2018	Problem Solving
3	28-02-2018	Knowledge and Reasoning
4	02-03-2018	Uncertain Knowledge and Reasoning
5	03-03-2018	Machine Learning Introduction and ANN Structure
6	05-03-2018	Mathematical Foundations and Learning mechanisms
7	06-03-2018	Single layer perceptrons
8	07-03-2018	Feed forward ANN
9	08-03-2018	Competitive Learning and Self organizing ANN
10	09-03-2018	Fuzzy Neural Networks
11	10-03-2018	Machine Learning, Applications & Projects using Python Libraries
12	12-03-2018	Deep Learning

  
CO-ORDINATOR

  
PRINCIPAL  
Dr. Nagendra Singh  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

**DEPARTMENT OF COMPUTER  
SCIENCE & ENGINEERING  
A TWO WEEK CERTIFICATE PROGRAM ON  
“MACHINE LEARNING  
&  
ARTIFICIAL INTELLIGENCE”**

**FEB 26 - MARCH 12,2018  
REGISTRATION FORM**

**CSE DEPARTMENT ORGANISE  
A TWO WEEK CERTIFICATE PROGRAM  
ON  
“MACHINE LEARNING & ARTIFICIAL  
INTELLIGENCE”**

**Name:**-----

**Gender:** Male  Female

**Qualification:** -----

**Department:**-----

**E-mail id:**-----

**Phone/Mobile:**-----

**Address:**-----  
-----

**Place:**

**Date:**

**Signature of the Participant**



**ABOUT THE COLLEGE**

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her Endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen...

**ORGANIZING COMMITTEE  
CHIEF PATRON**

**SRI.D.MANO HAR REDDY**

**FOUNDER OF TRINITY  
EDUCATIONAL INSTITUTIONS  
PATRON**

**SRI.D.PRASHANTH REDDY**

**CHAIRMAN OF TRINITY  
EDUCATIONAL INSTITUTIONS  
PRINCIPAL**

**DR.NAGENDRA SINGH**

**ABOUT THE DEPARTMENT**

The Department of Computer Science and Engineering was established in the year 2008. The department offers UG course with an intake of 60 respectively. The department has excellent infrastructures facilities,well equipped laboratories and experienced faculty. Computer Science and Engineering is one of the largest and fastest growing fields of engineering. It covers a wide range of applications which make our life easier and enjoyable.Radio,television,telephones, computers,automobiles,life saving medical Equipment represent a mere sample in the wide spectrum of application of computers.

**Dr. Nagendra Singh  
PRINCIPAL**

**Trinity College of Engineering & Technology  
Karimnagar - 505 001**

## ABOUT THE PROGRAMME

Machine learning is a core sub-area of artificial intelligence as it enables computers to get into a mode of self-learning without being explicitly programmed. When exposed to new data, computer programs are enabled to learn, grow, change, and develop by themselves. Artificial intelligence (AI, also machine intelligence, MI) is intelligence displayed by machines, in contrast with the natural intelligence (NI) displayed by humans and other animals.

In computer science AI research is defined as the study of intelligent agents any device that perceives its environment and takes actions that maximize its chance of success at some goal. Particular applications of AI include expert systems, speech recognition and machine vision.

## THE OBJECTIVE OF PROGRAM

It aims to provide an interactive platform for the academicians/industrial personnel in imparting and dissipating the latest technological advances in wireless area and to promote research interest in network security among students and research community. This technically excellent program bridges the gap between college curriculum and Industry demand.

## COURSE CONTENTS

- Introduction to Artificial Intelligence
- Sources of security leaks & stealing information.
- Problem Solving
- Introduction Machine Learning
- Mathematical Foundations and Learning mechanisms
- Single layer perceptions, Feed forward ANN
- Competitive Learning and Self organizing ANN
- Fuzzy Neural Networks

## REGISTRATION DETAILS

No Registration fee.

## ELIGIBILITY

The Students should pursuing II, III & IV YEAR of B.Tech.

## IMPORTANT DATES

Last date for registration: 26.02.2018

## RESOURCE PERSON

**Mr.R.SRIDHAR**

ASSISTANT PROFESSOR  
CSE DEPARTMENT  
TRINITY COLLEGE OF ENGINEERING & TECHNOLOGY  
CONTACT NO: 9849835030  
MAIL ID : Sridhar.rachamalla@gmail.com  
KARIMNAGAR.-505001.

## CO-ORDINATOR

**Mr.J.SHEKAR**

ASSISTANT PROFESSOR  
Dept. of CSE  
CONTACT NO: 9959120391,  
MAIL ID: shekarjakkula@gmail.com

## Address For Communication

Trinity College of Engineering & Technology,  
Near by-pass flyover,  
bommakal,  
Karimnagar-505001  
Phone: 9030451394  
Website: trinityengineering.edu.in

  
Dr. Nagendra Singh  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001



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Office : **9030451394**  
Email ID : **trlnlty.tctk@gmail.com**  
Website : **www.trlnltyengineering.edu.in**

Date: 15-03-2018

### PROGRAM REPORT

Name of the Event: A Two Week Certificate Program on "**MACHINE LEARNING & ARTIFICIAL INTELLIGENCE**".

**Date:** 26-02-2018 to 12-03-2018.

**Resource person:** Mr.R.SRIDHAR

Asst.Prof (Dept.CSE)  
Trinity College of Engineering & Technology  
Contact No: 9849835030  
Mail id: Sridhar.rachamalla@gmail.com

**Co-ordinator :** Mr.J.SHEKAR

Asst.Prof (Dept.CSE)  
Contact No: 9959120391  
Mail id: shekarjakkula@gmail.com

**No. of Students attended:** 64

**Venue:** LAB NO -101, BLOCK-1

Trinity College of Engineering & Technology, Karimnagar, organized A Two Week Certificate Program on "MACHINE LEARNING & ARTIFICIAL INTELLIGENCE" for B.Tech II,III & IV students by the resource person Mr.R.SRIDHAR on ML&AI. Totally 64 students were participated in this program and after the completion of the program they were able to understand the following objectives and learning outcomes.

#### Objectives:

Machine getting to know is a core sub-area of synthetic talent as it allows computers to get into a mode of self-learning besides being explicitly programmed. When uncovered to new data, laptop applications are enabled to learn, grow, change, and improve by using themselves. Artificial talent (AI, also computing device intelligence, MI) is Genius displayed by means of machines, in distinction with the natural intelligence(NI) via people and animals.

**Dr. Nagendra Singh**  
PRINCIPAL

Trinity College of Engineering & Technology  
Karimnagar - 505 001

Near By-Pass Flyover, Bommakal. **KARIMNAGAR. TELANGANA STATE - 505 001.**

Artificial talent is the simulation of human brain strategies with the aid of machines, specifically pc systems. These techniques include learning (the acquisition of facts and rules for the usage of the information), reasoning and self-correction. Particular purposes of AI include specialist systems, speech attention and laptop vision.

**Learning outcomes:**

- Artificial Intelligence
- Problem Solving
- Knowledge & Reasoning
- Uncertain Knowledge & Reasoning
- Machine Learning
- Mathematical Foundations and Learning mechanisms
- Single layer perceptions
- Feed forward ANN
- Competitive Learning and Self organizing ANN
- Fuzzy Neural Networks
- Deep Learning's

**PHOTO:**



This course was very useful to the students and their feedback is positive. The management and Dr. Nagendra Singh, Principal of Trinity College Of Engineering & Technology thanked the resource person and participants for making program successful.

*J. R.*  
**CO-ORDINATOR**

*N. S.*  
**Dr. Nagendra Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

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Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 22-02-2018

## CIRCULAR

It is hereby informed to all B.Tech ECE students that our college is conducting A Two Week Certificate Program on "WIRELESS TELECOMMUNICATION NETWORK OPERATING ON OPTICAL FREQUENCY " from 26-2-2018 to 12-3-2018. All the students register their names to coordinator listed below on or before 24-02-2018. Hence, all the students are hereby informed to attend the classes without fail.

**Venue:** Seminar hall, Block-2.

**Co-ordinator:** Ms. V.SONALI

Asst. Prof (Dept.ECE),  
Contact No: 9704121735,  
Mail id: vadapalliwarsonali4@gmail.com.

**PRINCIPAL**

**Dr. Nagendra Singh**  
**PRINCIPAL**

Trinity College of Engineering & Technology  
Karimnagar - 505 001

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Signature of all HOD's					TPO	Office	Library



**TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**KARIMNAGAR- 505001**

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DAY WISE SCHEDULE ON TWO WEEK CERTIFICATE PROGRAM AND TRAINING ON  
“WIRELESS TELECOMMUNICATION NETWORK OPERATING ON OPTICAL FREQUENCY”  
DEPARTMENT OF ECE

S.No	Date	Topics to be covered
1	26-02-2018	optical satellite communication introduction
2	27-02-2018	optical satellite communication key technology
3	28-02-2018	optics technology
4	2-03-2018	signal processing technology
5	3-03-2018	ATP technology
6	5-03-2018	Mechanic technology
7	6-03-2018	Comparison between optical satellite communication technology and other communication technologies
8	7-03-2018	optical satellite communication current problems
9	8-03-2018	Atmospheric factors
10	9-03-2018	Anti interference technology
11	10-03-2018	optical satellite communication technology tendency analysis
12	12-03-2018	conclusion on optical satellite communication technology

  
**CO-ORDINATOR**

  
**PRINCIPAL**  
**Dr. Nagendra Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

**DEPARTMENT OF ELECTRONICS  
& COMMUNICATION ENGINEERING**

**A TWO WEEK CERTIFICATE PROGRAM ON  
“WIRELESS TELECOMMUNICATION  
NETWORK OPERATING ON  
OPTICAL FREQUENCY”**

**FEB 26 - MAR 12, 2018**

**REGISTRATION FORM**

**ECE DEPARTMENT ORGANIZING  
A TWO WEEK CERTIFICATE PROGRAM  
ON  
“WIRELESS TELECOMMUNICATION  
NETWORK OPERATING ON OPTICAL  
FREQUENCY”**

**Name:**-----

**Gender:** Male  Female

**Qualification:**-----

**Department:**-----

**E-mail id:**-----

**Phone/Mobile:**-----

**Address:**-----  
-----

**Place:**

**Date:**

**Signature of the Participant**



**ABOUT THE COLLEGE**

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her Endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen.

**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

**ORGANIZING COMMITTEE  
CHIEF PATRON**

**SRI. D.MANO HAR REDDY**  
FOUNDER OF TRINITY EDUCATIONAL  
INSTITUTIONS

**PATRON**

**SRI. D.PRASHANTH REDDY**  
CHAIRMAN OF TRINITY EDUCATIONAL  
INSTITUTIONS

**PRINCIPAL**

**Dr. NAGENDRA SINGH**

**ABOUT THE DEPARTMENT:**

Electronics and Communication Engineering is one of the largest and fastest growing fields of engineering. It covers a wide range of applications which make our life easier and enjoyable. Radio, television, telephones, computers, automobiles, office machinery and house-hold appliances, life saving medical equipments and space vehicles represent a mere sample in the wide spectrum of application of electronics. Modern society relies heavily on communicating information through mobile phones, TVs, Radios, Telecommunications and Wireless Networks. Electronics and Communication Engineers are a crucial part of meeting this demand.

## ABOUT THE PROGRAMME

Wireless communication, also known as optical telecommunication is communication at a distance using light to carry information. It can be performed visually or by using electronic devices. An optical communication system uses a transmitter, which encodes a message into an optical signal, a channel, which carries the signal to its destination, and a receiver, which reproduces the message from the received optical signal. Modern communication relies on optical networking systems using optical fibres, optical amplifiers, lasers, switches, routers, and other related technologies

## THE OBJECTIVE OF PROGRAM

The transmitted distance can be anywhere between a few meters and thousands of kilometers. Wireless communication can be used for cellular telephony, wireless access to the internet, wireless home networking, and so on. Other examples of applications of radio wireless technology include GPS units, garage door openers, wireless computer mice, keyboards and headsets, headphones, radio receivers, satellite television, broadcast television and cordless telephones. The evolution of wireless technology has brought many advancements with its effective features.

## COURSE CONTENTS

1. optical satellite communication introduction
2. optical satellite communication key technology
3. optics technology
4. signal processing technology
5. ATP technology
6. Mechanic technology
7. optical satellite communication current problems
8. Atmospheric factors
9. Anti interference technology
10. optical satellite communication technology tendency analysis

## REGISTRATION DETAILS

No Registration fee.

## ELIGIBILITY

The Students should be pursuing II, III & IV YEAR of B.Tech.

## IMPORTANT DATES

Last date for registration: 11.3.2018

## RESOURCE PERSON

**Mr.D.SAMPATH**

ASSISTANT PROFESSOR

Dept. of ECE

CONTACT NO: 8328621392,

MAIL ID: sampath459@gmail.com.

## COORDINATOR

**Ms.V.SONALI**

ASSISTANT PROFESSOR

ECE DEPARTMENT

CONTACT NO: 9704121735

MAIL ID : vadapalliwarsonali@gmail.com

## Address For Communication

**Trinity College of  
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Karimnagar-5050001

Phone: 9030451394

Website: trinityengineering.edu.in

  
**Dr. Nagendra Singh**  
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Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 15-03-2018

## PROGRAM REPORT

**Name of the Event:** A Two Week Certificate Program on "WIRELESS TELECOMMUNICATION NETWORK OPERATING ON OPTICAL FREQUENCY".

**Date:** 26-2-2018 to 12-3-2018.

**Resource Person:** Mr. D.SAMPATH

Asst. Prof. (Dept.ECE),  
Contact No: 8328621392,  
Mail id:sampath459@gmail.com.

**Co-ordinator :** Ms. V.SONALI

Asst. Prof. (Dept.ECE),  
Contact No: 9704121735,  
Mail id:vadapalliwarsonali4@gmail.com.

**No. of Students attended:** 53

**Venue:** ROOM 108, BLOCK-2

Trinity College of Engineering & Technology, Karimnagar, organized A Two Week Certificate Program and Training on "WIRELESS TELECOMMUNICATION NETWORK OPERATING ON OPTICAL FREQUENCY " for B.Tech ECE students by the resource person Mr.D.SAMPATH. Totally 53 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

  
**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

## **OBJECTIVES:**

Wireless communication, also known as optical telecommunication, is communication at a distance using light to carry information. It can be performed visually or by using electronic devices. An optical communication system uses a transmitter, which encodes a message into an optical signal, a channel, which carries the signal to its destination, and a receiver, which reproduces the message from the received optical signal. Modern communication relies on optical networking systems using optical fibres, optical amplifiers, lasers, switches, routers, and other related technologies. Free-space optical communication use lasers to transmit signals in space, while terrestrial forms are naturally limited by geography and weather

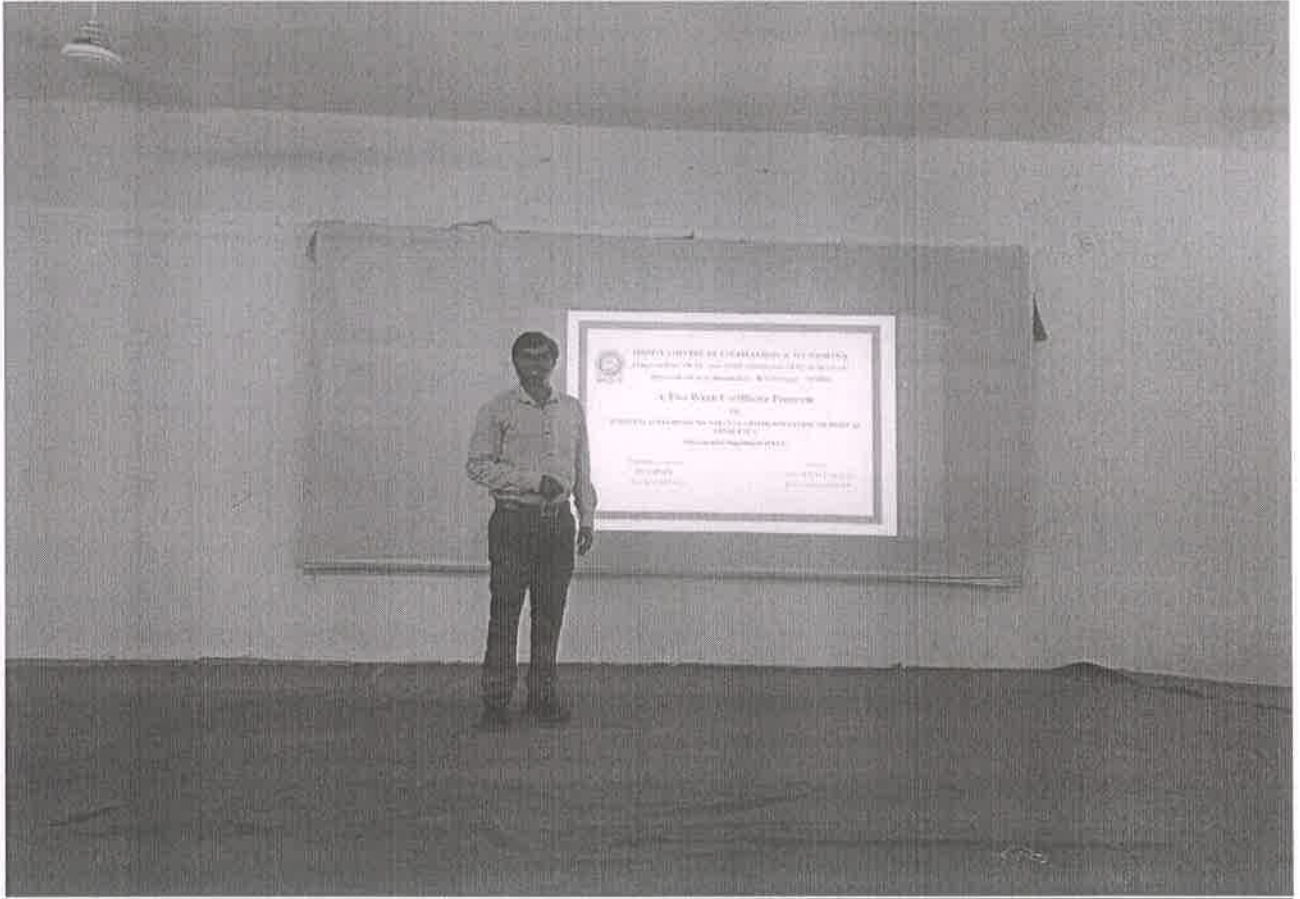
## **LEARNING OUTCOMES:**

- Wireless communication can be used for cellular telephony
- wireless access to the internet
- wireless home networking
- The transmitted distance can be anywhere between a few meters and thousands of kilometers
- GPS units, garage door openers, wireless computer mice, keyboards and headsets, headphones
- optical satellite communication technology tendency analysis
- optical satellite communication current problems
- optical satellite communication key technologies

  
**Dr. Nagendra Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001



**PHOTO:**



This course was very useful to the students and their feedback is positive. The management and Dr.Nagendra Singh, Principal of Trinity College Of Engineering & Technology thanked the resource person and participants for making program successful.

*Souli*

**CO-ORDINATOR**

**PRINCIPAL**  
**Dr. Nagendra Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

Estd : 2008



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Office : **9030451394**  
Email ID : **trlnlty.tctk@gmail.com**  
Website : **www.trlnltyengineering.edu.in**

Date: 05-02-2018

## CIRCULAR

It is hereby informed to all B.Tech EEE students that our college is conducting A Two Week Certificate Program on "APPLICATION OF COMPUTATIONAL INTELLIGENCE IN MODELLING AND CONTROL" from 12-02-2018 to 24-02-2018. All the students register their names to coordinator listed below on or before 09-02-2018. Hence, all the students are hereby informed to attend the classes without fail.

**Venue:** Seminar hall.

**Co-ordinator :**Mr. S.SAMPATHRAJ

Asst. Prof., Dept. of EEE

Mobile No.9491643644

Email. Id:sampathraj251@gmail.com

Copy to:

**PRINCIPAL**  
*Principal*  
**TRINITY College of  
Engineering & Technology  
KARIMNAGAR 505 001**

Signature of all HOD's					TPO	Office	Library

**TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY**

BOMMAKAL, KARIMNAGAR

(Approved by AICTE, New Delhi, Affiliated to JNTUH)


**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**A TWO WEEK CERTIFICATE PROGRAM ON APPLICATION OF  
COMPUTATIONAL INTELLIGENCE IN  
MODELLING AND CONTROL**

**From (12-02-2018 to 24-02-2018)**

**Day Wise Attendance Sheet**

Sl.no	Topic Name	Date of competition
1	Introduction to Data Science and AI & ML Data Science, AI & ML Use Cases in Business and Scope	12-2-2018
2	Use Cases in Business and Scope Scientific Method	13-2-2018
3	Modeling Concepts CRISP-DM Method	14-2-2018
4	R Essentials (Tutorial) Programming 2. Commands and Syntax	15-02-2018
5	Packages and Libraries Introduction to Data Types	16-02-2018
6	Data Structures in R - Vectors, Matrices, Arrays, Lists, Factors, Data Frames Importing and Exporting Data. Control structures and Functions Descriptive Statistics	17-02-2018
7	Data exploration (histograms, bar chart, box plot, line graph, scatter plot) Qualitative and Quantitative Data	19-02-2018
8	Measure of Central Tendency (Mean, Median and Mode), Measure of Positions (Quartiles, Deciles, Percentiles and Quantiles),	20-02-2018
9	Measure of Dispersion (Range, Median, Absolute deviation about median, Variance and Standard deviation), Anscombe's quartet Other Measures: Quartile and Percentile, Interquartile Range	21/2/2018

  
**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

Sl.no	Topic Name	Date of competition
10	Statistical Analysis Initial Data Analysis	22-02-2018
11	Relationship between attributes: Covariance, Correlation Coefficient, Chi Square	23-02-2018
12	Measure of Distribution (Skewness and Kurtosis), Box and Whisker Plot (Box Plot and its parts, Using Box Plots to compare distribution) and other statistical graphs	24-02-2018

*Sampath raj*  
CO-ORDINATOR

*NS*  
PRINCIPAL  
**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

## **A TWO WEEK CERTIFICATE PROGRAM**

**ON**

**APPLICATION OF COMPUTATIONAL INTELLIGENCE  
IN MODELLING AND CONTROL**

**12-24 FEB, 2018**



**TRINITY COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

**Coordinator:**

**S.SAMPATHRAJ**

Assistant Professor  
[sampathraj251@gmail.com](mailto:sampathraj251@gmail.com)

**Organized by  
DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

### **ABOUT THE INSTITUTION**

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen.

At Trinity learning pushes all boundaries of conventional thought in pursuit of understanding science in relation to the society. Every concept a Trinity acquires carries the inbuilt awareness of how it can be applied to render human life better.

### **ABOUT THE DEPARTMENT:**

Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics, and electromagnetism. Electrical engineering is concerned with the basic forms of energy that run our world like Thermal, Nuclear, gas, hydro, solar, geothermal, wind and tidal energy. Electrical engineers deal with distributing these energies from their sources to our homes, factories, offices, hospitals, and schools. Electrical power is an integral part of modern life. It is impossible to visualize the world without electricity. There has been rapid advancement in generation, transmission and distribution technologies, opening up new frontiers.

### **ABOUT THE PROGRAMME**

The objective of the programme is to transfer knowledge and to impart special skills to those engaged in the promotion and facilities of theory and application of computational intelligence in modelling and control of dynamical system. Modern engineering system show increasing complexity due to their high nonlinearity and large disturbances and uncertainties introduced by them. In many cases, conventional mathematical models, such as differential equations that can accurately describe the complex system and can be exploited in the real life application, do not exist.

However, with the fast development of advanced sensing, measurement, and data that represent input-output relationships of the system become available. This make data- driven modelling (DDM) possible and practical.

### **TOPICS TO BE COVERED**

- Mathematical foundation for system engineering
- Modelling of Stochastic and intelligent system
- Reinforcement learning
- Big data analytics for modeling
- Neural networks and fuzzy logic control
- Deep learning for sensing and perception
- Intelligent Robotics and autonomous systems ● Applications to unmanned aerial system
- Model predictive control
- Python/Matlab Programming Language during Lab Session
- Hands on: Data driven modeling, control and case studies.

  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001



**RESOURCE PERSON:**  
**Mr.B.SANTHOSH KUMAR**

ASSISTANT PROFESSOR  
Mobile No.9849440855  
santhosh226@gmail.com

**WHO SHOULD ATTAIN?**

Engineering students from various Engineering Colleges/Institutions/Research Organizations can apply. Maximum seats limited to 100 (first-come, first-serve basis).

**NO REGISTRATION FEE**

**HOW TO APPLY?**

Registration form in the prescribed format duly filled up in all respects and attested by head of the institution should reach the coordinator.

campus for participation on request.

**IMPORTANT DATES**

Last date for registration: 06.02.2018  
Intimation of Selection :08.02.2018

**ORGANIZING COMMITTEE**

**CHIEF PATRON**

**SRI.D.MANO HAR REDDY**  
FOUNDER OF TRINITY EDUCATIONAL INSTITUTIONS

**PATRON**

**SRI.D.PRASANTH REDDY**  
CHAIRMAN OF TRINITY EDUCATIONAL INSTITUTIONS

**PRINCIPAL**

**Dr. NAGENDRA SINGH**

**COORDINATOR**

**Mr.S.SAMPATHRAJ**  
ASSISTANT PROFESSOR  
9491643644  
sampathraj251@gmail.com

**Address for communication**

**The coordinator**

**Department of EEE**

**Trinity college of engineering & technology,**

**Bommakal, Karimnagar-5050001**

**Mobile no:9030451394**

**Email: trinity.tctk@gmail.com**

**Website:www.trinityengineering.edu.in**

**Application of Computational Intelligence in Modelling and Control**

**REGISTRATION FORM**

1. Name: .....
2. Date of birth: .....
3. Gender : .....
4. Department: .....
5. Institution: .....
6. Mobile:.....
7. E-mail: .....
8. Highest Qualification: .....
9. Specialization: .....
10. Category: .....
11. student.....

**Endorsement from Head of Institution**

I here by certify that Mr. /Ms. /Dr. .... Student of ----- and has no objection to register for the high end workshop on on "Application of Computational Intelligence in Modelling and Control" at Trinity college of engineering and technology during 05-17 feb 2018.

Place:

Date:

*Name & Signature of Head of Institution*

(Institute seal)

**Dr. Nagendra Singh**  
**PRINCIPAL**  
**Trinity College of Engineering & Technology**  
**Karimnagar - 505 001**

Estd : 2008



**TRINITY**  
COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUH & SBTET)

JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 27-02-2018

## PROGRAM REPORT

Name of the Event: A Two Week Certificate Program on “APPLICATION OF COMPUTATIONAL INTELLIGENCE IN MODELLING AND CONTROL”

Date: 12-02-2018 to 24-02-2018.

**Resource Person:** Mr. B.SANTHOSH KUMAR

Asst. Prof., Dept. of EEE

Mobile No. 9849440855

Email. Id: santhosh226@gmail.com

**Name of the Co-ordinator:** Mr. S.SAMPATHRAJ

Asst. Prof., Dept. of EEE

Mobile No.9491643644

Email. Id:sampathraj251@gmail.com

**No. of Students attended:** 35

**Venue:** Seminar Hall, Block – 2

Trinity College of Engineering & Technology, Karimnagar, organized a certificate program on "APPLICATION OF COMPUTATIONAL INTELLIGENCE IN MODELLING AND CONTROL" for B.Tech EEE students by the resource person Mr. B.SANTHOSH KUMAR on ML&AI. Totally 35 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

  
**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

## **OBJECTIVES:**

The objective of the programme is to transfer knowledge and to impart special skills to those engaged in the promotion and facilities of theory and application of computational intelligence in modelling and control of dynamical system. Modern engineering system show increasing complexity due to their high non-linearity and large disturbances and uncertainties introduced by them. In many cases, conventional mathematical models, such as differential equations that can accurately describe the complex system and can be exploited in the real life application, do not exist.

However, with the fast development of advanced sensing, measurement, and data that represent input-output relationships of the system become available. This make data-driven modelling (DDM) possible and practical.

## **LEARNING OUTCOME:**

1. Identify problems where artificial intelligence techniques are applicable
2. Apply selected basic AI techniques; judge applicability of more advanced techniques.
3. Participate in the design of systems that act intelligently and learn from experience.

  
**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

**PHOTO:**



This course was very useful to the students and their feedback is positive. The management and Dr. N.NAGENDRA SINGH, Principal of TCTK thanked the resource person and participants for making program successful.

*Sampath rj*  
CO-ORDINATOR

*NS*  
PRINCIPAL  
**Dr. Nagendra Singh**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

Estd : 2008



# TRINITY

COLLEGE OF ENGINEERING & TECHNOLOGY

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JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 30-10-2017

## CIRCULAR

All the B.Tech students are hereby notified that the college is hosting a two week certificate program on “**Data Mining For Advanced Analytics**” from 01-11-2017 to 14-11-2017. On or before 01-11-2017, the students must register their names to coordinator mentioned below. Therefore, it is imperative that every student must register their names without fail.

**Venue:** LAB 101, BLOCK-1.

**Coordinator:** Mr.J.SHEKAR(Asst.prof)  
CSE Dept.  
Contact No: 9959120391  
Mail id: shekarjakkula@gmail.com

**Copy to:**  
The All HOD's  
Notice boards

  
**DEAN ACADEMICS**

*Dean Academics*  
TRINITY College of  
Engineering & Technology  
KARIMNAGAR-505 001

CSE	ECE	EEE	MBA	H&S
				



**TRINITY COLLEGE OF ENGINEERING & TECHNOLOGY**  
Near Bypass Flyover, Bommakal, Karimnagar.505001

DAY WISE SCHEDULE ON  
TWO WEEK CERTIFICATE PROGRAM ON  
“DATAMINING FOR ADVANCED ANALYTICS”  
Dept. of CSE (01-11-2017 to 14-11-2017)

S.No	Date	Topics to be covered
1	01-11-2017	Demonstrate preparing, testing, and evaluation
2	02-11-2017	Decision tables and trees
3	03-11-2017	Decision tables and trees
4	04-11-2017	Classification rules
5	06-11-2017	Association rules
6	07-11-2017	Association rules
7	08-11-2017	Bayesian learning
8	09-11-2017	Numeric prediction
9	10-11-2017	Clustering
10	11-11-2017	Clustering, Hidden Markov models
11	13-11-2017	Ensemble learning
12	14-11-2017	Artificial neural networks, Support vector machines

**CO-ORDINATOR**

**DEAN ACADEMICS**

*Dean Academics*  
TRINITY College of  
Engineering & Technology  
KARIMNAGAR-505 001

## ABOUT THE COLLEGE

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her Endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen...

## ABOUT THE DEPARTMENT:

The Department of Computer Science and Engineering was established in the year 2008. The department offers UG course with an intake of 60 respectively. The department has excellent infrastructures facilities, well equipped laboratories and experienced faculty. Computer Science and Engineering is one of the largest and fastest growing fields of engineering. It covers a wide range of applications which make our life easier and enjoyable. Radio, television, telephones, computers, automobiles, life saving medical Equipment represent a mere sample in the wide spectrum of application of computers. Computer Science and Engineering are a crucial part of meeting this demand.



### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING A TWO WEEK CERTIFICATE PROGRAM ON

**“Data Mining for Advanced Analytics”**

**01-11-2017 to 14-11-2017**

#### Address for communication

Trinity College of Engineering &  
Technology,

Near by-pass flyover, bommakal,  
Karimnagar-505001

Phone:9030451394

Website:trinityengineering.edu.in

*TD*  
Dean Academics  
TRINITY College of  
Engineering & Technology  
KARIMNAGAR-505001

## ORGANIZING COMMITTEE

### CHIEF PATRON

**SRI.D.MANOHAR REDDY**

**FOUNDER OF TRINITY**

**EDUCATIONAL INSTITUTIONS**

### PATRON

**SRI.D.PRASHANTH REDDY**

**CHAIRMAN OF TRINITY**

**EDUCATIONAL INSTITUTIONS**

**DEAN ACADEMICS**

**DR.NAGENDRA SINGH**

**RESOURCE PERSON**

**Mr.P.SRINIVAS**

Asst. Prof, Dept. of CSE

Trinity College Of Engineering &  
Technology

Karimnagar-505001

Contact No: 9618202012

Mail id: sri23131@gmail.com

**CO-ORDINATOR**

**Mr.J.SHEKAR**

Asst.Prof,Dept. Of CSE

Mail id :shekarjakkula@gmail.com

Contact Number: 9959120391

### ABOUT THE PROGRAMME

- ✓ Data mining is a crucial component of successful analytics initiatives in organizations.
- ✓ The information it generates can be used in business intelligence (BI) and advanced analytics applications that involve analysis of historical data, as well as real-time analytics applications that examine streaming data as it's created or collected.
- ✓ Data mining supports fraud detection, risk management cybersecurity planning and many other critical business use cases.
- ✓ It also plays an important role in healthcare, government, scientific research, mathematics, sports and more.

### OBJECTIVES OF PROGRAM

- ✓ Information Mining for progressed Analytics gives you with the aptitudes to plan , construct, confirm and test prescient information models to create data driven choices in any industry.
- ✓ Modern databases can contain massive amounts of data. Within this data lies important information that can only be effectively analyzed using data mining. Data mining tools and techniques can predict future trends and behaviors, allowing individuals and organizations to make proactive, knowledge-driven decisions.

You'll learn to arrange and execute all the steps of information arrangement, investigation, learning and modelling, and distinguishing the predictive or descriptive and demonstrate that produces the best evolution scores.

### COURSE CONTENTS

- ✓ Demonstrate preparing, testing, and evaluation
- ✓ Decision tables and trees
- ✓ Classification rules
- ✓ Association rules
- ✓ Bayesian learning
- ✓ Numeric prediction
- ✓ Clustering
- ✓ Ensemble learning
- ✓ Artificial neural networks
- ✓ Hidden Markov models
- ✓ Support vector machines

### ELIGIBILITY

The students pursuing II, III & IV YEAR of B.Tech of CSE Dept.

### IMPORTANT DATES

Last date for registration: 01-11-2017

### REGISTRATION FORM

**CSE DEPARTMENT  
JOINTLY ORGANISE  
A TWO WEEK CERTIFICATE  
PROGRAM ON  
"Data Mining for Advanced Analytics"  
01-11-2017 to 14-11-2017**

Name: \_\_\_\_\_

Gender: Male  Female

Qualification: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

College Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

E-mail id: \_\_\_\_\_

Phone/Mobile: \_\_\_\_\_

Category : Student

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Participant: \_\_\_\_\_

*Handwritten Signature*  
Dean Academics  
TRINITY College of  
Engineering & Technology  
KARIMNAGAR-505 001

Estd : 2008



# TRINITY

## COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUH & SBTET)

JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 16-11-2017

### PROGRAM REPORT

Name of the Event: A Two Week Certificate Program On "**Data Mining for Advanced Analytics**".

Date: 01-11-2017 to 14-11-2017

**Resource Person:** Mrs.P.SRINIVAS

Asst. Prof, Dept. of CSE  
Trinity College Of Engineering & Technology  
Karimnagar-505001  
Contact No: 9618202012  
Mail id: sri23131@gmail.com

**Name of the Co-ordinator:** Mr.J.SHEKAR

Asst. Prof ,CSE Dept.  
Contact No: 9959120391  
Mail id: shekarjakkula@gmail.com

**No. of Students Registered:** 74

Venue: LAB 101, BLOCK-1

Trinity College of Engineering & Technology, Karimnagar, organized A Two Week Certificate Program On "**Data Mining for Advanced Analytics**" for B.Tech III & IV YEAR students by the resource person P.Srinivas. Totally 74 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

#### Objectives:

Information Mining for Advanced Analytics teaches you how to make educated decisions in any field using tested predictive models. New computers can store a lot of information. This is important information that needs to be studied using a special way of looking at it called data mining.

We can predict what may happen in the future by using specific tools and techniques. This helps people and groups to make good decisions based on real information. You'll learn how to get information, make guesses and check if they are right. Benefits of a software. You'll get training that'll teach you helpful things you can use right away. The things you can use right away.

You'll learn to arrange and execute all the steps of information arrangement, investigation, learning and modeling, and distinguishing the predictive/descriptive and demonstrate that produces the best evolution scores.



Modern databases can contain massive amounts of data. Within this data lies important information that can only be effectively analyzed using data mining. Data mining tools and techniques can predict future.

**Learning outcomes:**

- Demonstrate preparing, testing, and evaluation
- Decision tables and trees
- Classification rules
- Association rules
- Bayesian learning
- Numeric prediction
- Clustering
- Ensemble learning
- Artificial neural networks
- Hidden Markov models
- Support vector machines

**PHOTO:**



This course was very useful to the students and their feedback is positive. The management and DEAN ACADEMICS of Trinity College of Engineering & Technology thanked the resource person and participants for making program successful.

J.R.

CO-ORDINATOR

DEAN ACADEMICS

*Dean Academics*  
TRINITY College of  
Engineering & Technology  
KASBANAGAR-505 001



Estd : 2008



# TRINITY

COLLEGE OF ENGINEERING & TECHNOLOGY

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SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 13-8-2017

## CIRCULAR

It is hereby informed to all B.Tech ECE students that our college is conducting A Two Week Certificate Program on "SWITCHING THEORY AND LOGIC DESIGN AND IT'S APPLICATIONS" from 18-8-2017 to 31-8-2017. All the students register their names to coordinator listed below on or before 17-8-2017. Hence, all the students are hereby informed to attend the classes without fail.









**Venue:** Seminar hall, Block-2.

**Co-Ordinator:** Mr. D.Sampath

Asst.Prof (Dept.ECE),  
Contact No :8328621392,  
Mail id: sampath459@gmail.com.

**Copy to:**

  
**PRINCIPAL**  
**Dr. S.G. Sangashetty**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

Signature of all HOD's					TPO	Office	Library
							

**TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**KARIMNAGAR- 505001**

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A TWO WEEK CERTIFICATE PROGRAM AND TRAINING ON  
“SWITCHING THEORY AND LOGIC DESIGN AND IT’S APPLICATIONS”  
FROM (18-8-2017 to 31-8-2017), Dept. of ECE

DAY WISE SCHEDULE

S. No.	Date	Topics to be covered
1	18-08-2017	Introduction to the topic and number systems
2	19-08-2017	Boolean algebra
3	21-08-2017	Switching functions
4	22-08-2017	Code Boolean algebra
5	23-08-2017	Minimization of combinational circuits
6	24-0-8-2017	Design of combinational circuits
7	25-08-2017	Sequential machines fundamentals
8	26-08-2017	Sequential circuits design
9	28-08-2017	Sequential circuits analysis
10	29-08-2017	Salient features of ASM-charts, sample examples
11	30-08-2017	Advantages and disadvantages of sequential circuits
12	31-08-2017	Conclusion of the topic

  
CO-ORDINATOR

  
PRINCIPAL  
Dr. S.G. Sangashetty  
PRINCIPAL  
Trinity College of Engineering & Tech  
Karimnagar - 505 001

**DEPARTMENT OF ELECTRONICS  
& COMMUNICATION ENGINEERING**

**A TWO WEEK CERTIFICATE PROGRAM ON**

**"SWITCHING THEORY AND LOGIC DESIGN AND  
IT'S APPLICATIONS"**

**AUG18 - AUG31, 2017**

**REGISTRATION FORM**

**ECE DEPARTMENT ORGANIZING**

**A TWO WEEK CERTIFICATE PROGRAM ON**

**"SWITCHING THORY AND LOGIC DESIGN AND IT'S  
APPLICATIONS"**

Name:-----

Gender: Male  Female

Qualification:-----

Department:-----

E-mail id:-----

Phone/Mobile:-----

Address:-----  
-----

Place:

Date:

**Signature of the Participant**

**TRINITY COLLEGE OF ENGINEERING  
& TECHNOLOGY**

Approved by AICTE, New Delhi Affiliated to JNTU - Hyderabad & SBTET Telangana  
Bypass Road, Near Dabur

**KARIMNAGAR, TELANGANA STATE - 505001**



**ABOUT THE COLLEGE**

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her Endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen.

**Dr. S.G. Sangashetty**  
PRINCIPAL

Trinity College of Engineering & Technology  
Karimnagar - 505 001

**ORGANIZING COMMITTEE**

**CHIEF PATRON**

**SRI. D.MANO HAR REDDY**

**FOUNDER OF TRINITY EDUCATIONAL  
INSTITUTIONS**

**PATRON**

**SRI. D.PRASHANTH REDDY**  
**CHAIRMAN OF TRINITY EDUCATIONAL  
INSTITUTIONS**

**PRINCIPAL**

**Dr. S.G. SANGASHETTY**

**ABOUT THE DEPARTMENT:**

Electronics and Communication Engineering is one of the largest and fastest growing fields of engineering. It covers a wide range of applications which make our life easier and enjoyable. Radio, television, telephones, computers, automobiles, office machinery and house-hold appliances, life saving medical equipments and space vehicles represent a mere sample in the wide spectrum of application of electronics. Modern society relies heavily on communicating information through mobile phones, TVs, Radios, Telecommunications and Wireless Networks. Electronics and Communication Engineers are a crucial part of meeting this demand.

## ABOUT COLLEGE:

Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics, and electromagnetism. Electrical engineering is concerned with the basic forms of energy that run our world like Thermal, Nuclear, gas, hydro, solar, geothermal, wind and tidal energy. Electrical engineers deal with distributing these energies from their sources to our homes, factories, offices, hospitals, and schools. Electrical power is an integral part of modern life. Electrical engineering is a diversified profession concerned with the design and operation of the electrical devices and systems required by our technological society.

## ABOUT THE PROGRAMME

To study the basic philosophy underlying the various number systems, negative number representation, binary arithmetic, binary codes and error detecting and correcting binary codes. To study the theory of Boolean algebra and to study representation of switching functions using Boolean expressions and their minimization techniques. To study the combinational logic design of various logic and switching devices and their realization. To study the sequential logic circuits design both in synchronous and Asynchronous modes for various complex logic and switching devices, their minimization techniques and their realizations. To study some of the programmable logic devices and their use in realization of switching functions

## COURSE CONTENTS

1. Introduction to the topic and number systems
2. Boolean algebra
3. Switching functions, Code Boolean algebra, Minimization of combinational circuits.
4. Design of combinational circuits and sequential circuits.
5. Sequential circuits design
6. Salient features of ASM-charts, sample examples

## REGISTRATION DETAILS

No Registration fee.

## ELIGIBILITY

The Students should pursuing II, III & IV YEAR of B.Tech.

## IMPORTANT DATES

Last date for registration: 17.08.2017

  
Dr. S.G. Sangashetty  
PRINCIPAL

Trinity College of Engineering & Technology  
Karimnagar - 505 001

## RESOURCE PERSON

Mr. O.PRAVEEN

ASSISTANT PROFESSOR

ECE DEPARTMENT

CONTACT NO: 9505027799

MAIL ID : praveenkumarollala99@gmail.com,

## COORDINATOR

Mr. D.SAMPATH

ASSISTANT PROFESSOR

Dept. of ECE

CONTACT NO: 8328621392,

MAIL ID: sampath459@gmail.com.

## Address For Communication

Trinity College of Engineering & Technology,

Near by-pass flyover,

bommakal,

Karimnagar-5050001

Phone: 9030451394

Website: trinityengineering.edu.in

Estd : 2008



# TRINITY

## COLLEGE OF ENGINEERING & TECHNOLOGY

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Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 3-9-2017

### PROGRAM REPORT

**Name of the Event:** A Two Week Certificate Program on "SWITCHING THEORY AND LOGIC DESIGN AND IT'S APPLICATIONS".

**Date:** 18-8-2017 to 31-8-2017.

**Resource Person:** Mr. O.PRAVEEN

Asst. Prof (Dept.ECE),

Contact No: 9505027799,

Mail id:praveenkumarollala99@gmail.com.

**Co-Ordinator :** Mr. D.SAMPATH

Asst. Prof (Dept.ECE),

Contact No: 8328621392,

Mail id: sampath459@gmail.com.

**No. of Students attended:** 55

**Venue:** SEMINAR HALL, BLOCK-2

Trinity College of Engineering & Technology, Karimnagar, organized A Two Week Certificate Program and Training on "SWITCHING THEORY AND LOGIC DESIGN AND IT'S APPLICATIONS" for B.Tech ECE students by the resource person Mr.O.PRAVEEN. Totally 55 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

  
**Dr. S.G. Sangashetty**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001



**Objectives:**

To study the basic philosophy underlying the various number systems, negative number representation, binary arithmetic, binary codes and error detecting and correcting binary codes. To study the theory of Boolean algebra and to study representation of switching functions using Boolean expressions and their minimization techniques. To study the combinational logic design of various logic and switching devices and their realization. To study the sequential logic circuits design both in synchronous and Asynchronous modes for various complex logic and switching devices, their minimization techniques and their realizations. To study some of the programmable logic devices and their use in realization of switching functions.

**Learning outcomes:**

- Students will be aware of theory of Boolean Algebra & the underlying features of various number systems
- Students will be able to use the concepts of Boolean Algebra for the analysis & design of various combinational & sequential logic circuits
- Students will be able to design various logic gates starting from simple ordinary gates to complex programmable logic devices & arrays.

  
**Dr. S.G. Sangashetty**  
PRINCIPAL  
Trinity College of Engineering & Technology  
Karimnagar - 505 001



**PHOTO:**



— This course was very useful to the students and their feedback is positive. The management and Dr.S.G SANGA SHETTY, Principal of Trinity College Of Engineering & Technology thanked the resource person and participants for making program successful.

*sv*

**CO-ORDINATOR**

*S.G. Sangashetty*

**PRINCIPAL**

**Dr. S.G. Sangashetty**

**PRINCIPAL**

**Trinity College of Engineering & Technology  
Karimnagar - 505 001**

Estd : 2008



# TRINITY

COLLEGE OF ENGINEERING & TECHNOLOGY

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JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trlnlty.tctk@gmail.com**  
Website : **www.trlnltyengineering.edu.in**

Date: 27-07-2017

## CIRCULAR

It is hereby informed to all B. Tech 3<sup>rd</sup> and 4<sup>th</sup> year students that our college is conducting A Two-Week Certificate program on "ROLE OF PLC PROGRAMMING IN MANUFACTURING INDUSTRY" from 01-08-2017 to 14-08-2017. All the students are invited and advised to actively participate in the certificate program. Up on successful participation the students will be issued with participation certificate. Interested students can enroll their names on or before 28-07-2017. For further details contact the program coordinator Mr. D. ARJUN Assistant Professor, Department of EEE

Venue: Seminar Hall, TCTK College of Engineering

Co-Ordinator: Mr. D. ARJUN




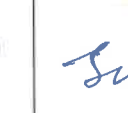

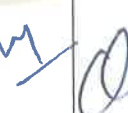

Asst. Prof., Dept. of EEE

Mobile No. 8978522389.

Email. Id: daarjunsmarty@gmail.com.

Copy to:

  
**DEAN ACADEMICS**  
*Dean Academic*  
TRINITY College of  
Engineering & Technology  
KARIMNAGAR-505 001

Signature of all HOD's				TPO	Office	Library
						

**TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY**

BOMMAKAL, KARIMNAGAR

(Approved by AICTE, New Delhi, Affiliated to JNTUH)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**A TWO WEEK CERTIFICATE PROGRAM ON ROLE OF PLC PROGRAMMING  
IN MANUFACTURING INDUSTRY**

**From (01-08-2017 to 14-08-2017)**

**DAY WISE SCHEDULE**

S. No	Date	Topics
1	01-08-2017	<ul style="list-style-type: none"><li>● Introduction to PLC Programming for manufacturing industry</li><li>● PLC programming for manufacturing industry Onramp, Analyzing and visualizing data with PLC programming for manufacturing industry.</li></ul>
2	02-08-2017	<ul style="list-style-type: none"><li>● Technical computing data analysis</li><li>● Programming for manufacturing industry overview, working in the development environment</li></ul>
3	03-08-2017	<ul style="list-style-type: none"><li>● Fundamentals of PLC programming for manufacturing industry</li></ul>
4	04-08-2017	<ul style="list-style-type: none"><li>● Data processing and visualization</li></ul>
5	05-08-2017	<ul style="list-style-type: none"><li>● Building interactive application</li></ul>
6	07-08-2017	<ul style="list-style-type: none"><li>● Types of data</li><li>● How to analyze them with PLC programming for manufacturing industry</li></ul>

  
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7	08-08-2017	<ul style="list-style-type: none"> <li>• Programming and developing Algorithms with PLC programming for manufacturing industry</li> </ul>
8	09-08-2017	<ul style="list-style-type: none"> <li>• Sharing and Deploying PLC programming for manufacturing industry programs</li> </ul>
9	10-08-2017	<ul style="list-style-type: none"> <li>• Sharing and Deploying PLC programming for manufacturing industry central</li> </ul>
10	11-08-2017	<ul style="list-style-type: none"> <li>• Programming Techniques</li> </ul>
11	12-08-2017	<ul style="list-style-type: none"> <li>• Accelerating PLC programming for manufacturing industry code</li> </ul>
12	14-08-2017	<ul style="list-style-type: none"> <li>• Desktop and Web Development</li> </ul>



**CO-ORDINATOR**



**DEAN ACADEMICS**

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KARIMNAGAR-505 001**

**ORGANIZING COMMITTEE:**

**CHIEF PATRON: D.MANO HAR  
REDDY**

**FOUNDER OF TRINITY EDUCATIONAL  
INSTITUTIONS**

**PATRON: D.PRASANTH REDDY**

**CHAIRMAN OF TRINITY EDUCATIONAL  
INSTITUTIONS**

**PRINCIPAL:**

**Dr. S.G.SANGASHETTY**

**CONVENOR:**

**M. PRAVEEN KUMAR**

**ASSISTANT PROFESSOR**

**Phone N. o: 7893223731**

**PROGRAM COORDINATORS:**

**D. ARJUN**

**ASSISTANT PROFESSOR**

**Phone No: 8978522389**

**daarjunsmarty@gmail.com**

**A TWO Week  
Certificate Program**

**On**

**ROLE OF PLC PROGRAMMING IN  
MANUFACTURING INDUSTRY**

**01-08-2017 to 14-08-2017**

**Organized by**

**Department of**

**Electrical and Electronics Engineering**



**RESOURCE PERSON**

**A. SRILATHA  
ASSISTANT PROFESSOR**

**Phone N. o: 8500313845**

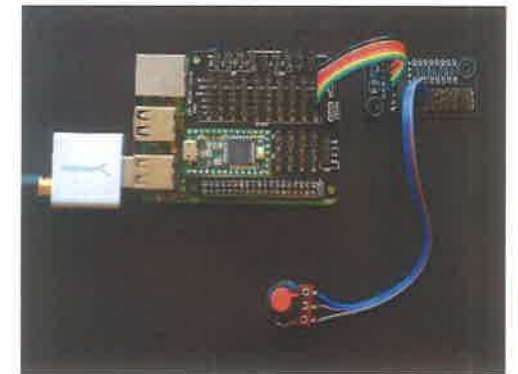
**Mail id: srilathanagoni@gmail.com**

**TRINITY COLLEGE OF  
ENGINEERING AND  
TECHNOLOGY**

**(Approved by AICTE, New Delhi, Affiliated  
to JNTUH)**



**NO REGISTRATION FEE**



  
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**Engineering & Technology**  
**KARIMNAGAR-505 001**



### ABOUT THE COLLEGE:

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her Endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen...

### ABOUT THE DEPARTMENT:

Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics, and electromagnetism. Electrical engineering is concerned with the basic forms of energy that run our world like Thermal, Nuclear, gas, hydro, solar, geothermal, wind and tidal energy. Electrical engineers deal with distributing these energies from their sources to our homes, factories, offices, hospitals, and schools. Electrical power is an integral part of modern life. Electrical engineering is a diversified profession concerned with the design and operation of the electrical devices and systems required by our technological society.

  
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### ABOUT THE PROGRAM:

In today's society, we rely on automated machinery to perform many of our most critical industrial process, from generating electricity to weaving fabric. Automation technology has allowed us to scale new heights of production and innovation. But our current level of automation wouldn't be possible without a critical invention called the programmable logic controller (PLC)

### TOPICS TO BE COVERED:

- Technical computing and data analysis, PLC programming for manufacturing industry overview, working in the development environment
- Introduction to PLC programming for manufacturing industry onramp, analysing and visualizing data with Plc programming for manufacturing industry.
- Plc programming for manufacturing industry fundamentals
- Data processing and visualization

### REGISTRATION FORM

#### CERTIFICATE PROGRAM ON ROLE OF PLC PROGRAMMING IN MANUFACTURING INDUSTRY

01-08-2017 to 14-08-2017

Name: \_\_\_\_\_

Department: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Mobile. No: \_\_\_\_\_

Email: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Estd : 2008



# TRINITY

COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUH & SBTET)

JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**

Office: **9030451394**

Email ID: [trinity.tctk@gmail.com](mailto:trinity.tctk@gmail.com)

Website: [www.trinityengineering.edu.in](http://www.trinityengineering.edu.in)

Date: 16-08-2017

## PROGRAM REPORT

Name of the Event: A Two Week Certificate program on “**ROLE OF PLC PROGRAMMING IN MANUFACTURING INDUSTRY**”

Date: 01-08-2017 to 14-08-2017.

Resource Person: Mrs. A.SRILATHA

Asst. Prof., Dept. of EEE

Mobile No. 8500313845.

Email. Id: [Srilatha.anagani@gmail.com](mailto:Srilatha.anagani@gmail.com)

Name of the Co-ordinator: Mr.D. ARJUN

Asst. Prof., Dept. of EEE

Mobile No. 8978522389.

Email. Id: [daarjunsmarty@gmail.com](mailto:daarjunsmarty@gmail.com)

No. of Students attended: 70

Venue: Seminar Hall, Block – 2

Trinity College of Engineering & Technology, Karimnagar, organized a certificate program on “**ROLE OF PLC PROGRAMMING IN MANUFACTURING INDUSTRY**” for B.Tech EEE students by the resource person Mrs. A.SRILATHA. Totally 70 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

  
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## **OBJECTIVES:**

1. Describe the purpose of each of the major PLC components.
2. Discuss basic PLC operation.
3. Describe the internal structure of the CPU.
4. Describe the internal architecture of a typical PLC.
5. Identify typical input and output devices.
6. Discuss the function of the I/O (input/output) modules.

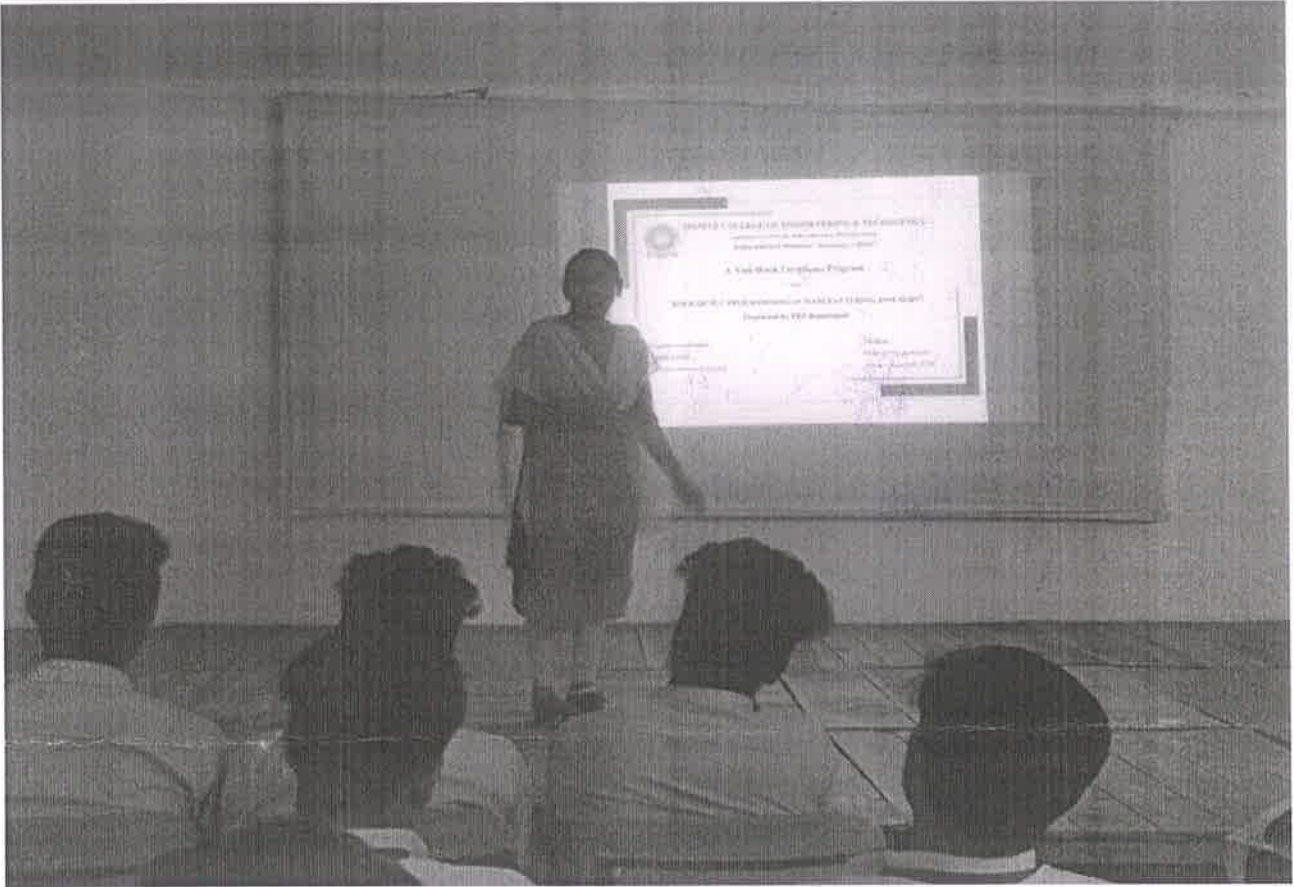
## **LEARNING OUTCOMES:**

1. Students will be able to describe typical components of a Programmable Logic Controller.
2. Students will be able to explain the basic concepts of a Programmable Logic Controller.
3. Students will be able to explain the basic concept of basic digital electronics and data manipulation.
4. Students will be able to use timer, counter and other intermediate programming functions.
5. Students will be able to explain and apply the concept of electrical ladder logic ,it's history and it's relationship to programmed PLC instruction.
6. Students will be able to design and program basis PLC circuits for entry level PLC APPLICATIONS.
7. Students will be able to design and program a small, automated industrial production line.



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**KARIMNAGAR-505 001**

**PHOTO:**



This course was very useful to the students and their feedback is positive. The management and Dr. NAGENDRA SINGH Dean Academics of TCTK thanked the resource person and participants for making program successful.

**CO-ORDINATOR**

**DEAN ACADEMICS**  
*Dean Academics*  
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Engineering & Technology  
KARIMNAGAR-505 001

Estd : 2008



# TRINITY

COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUH & SBTET)

JNTUH COLLEGE CODE : **UE**  
SBTET-TS COLLEGE CODE : **488**  
POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 07/07/2017

## CIRCULAR

It is here by knowledgeable to all I & II year MBA students that our college is conducting A Two Week Certificate program on “A TWO WEEK CERTIFICATE PROGRAM ON OPPORTUNITIES FOR MBA STUDENTS” from 10-07-2017 TO 22-07-2017. All the college students register their names to coordinator listed below on before 14-07-2017. Hence, all the interested students are hereby informed to attend the certificate program.

**Venue:** Seminar Hall, Block II.

**Co-coordinator:** Mrs. D. Rajitha

Asst. Professor MBA Dept

Mail ID: rajithadornala@gmail.com






Contact: 9490287250

**Copy to:**

The All HOD's  
Notice boards

  
**DEAN ACADEMICS**

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TRINITY College of  
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KARIMNAGAR-505 001

CSE	ECE	EEE	MBA	H&S
				



**TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**A TWO WEEK CERTIFICATE PROGRAM**  
**ON**  
**OPPORTUNITIES FOR MBA STUDENTS**  
**(10-07-2017 TO 22-07-2017)**

**DAY WISE SCHEDULE**

S.No	Date	TIME	Contents
1	10-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Responsibility</li> <li>➤ Introduction</li> <li>➤ Sales Plans</li> </ul>
2	11-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Brand Manager</li> <li>➤ Sales Manager</li> <li>➤ Back to Back Sales</li> </ul>
3	12-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Digital Marketing</li> <li>➤ Job Opportunities</li> <li>➤ Career Guidance</li> </ul>
4	13-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Finance Jobs</li> <li>➤ Investment Banking</li> <li>➤ Risk Management</li> </ul>
5	14-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Budget Making</li> <li>➤ Financial Planning</li> <li>➤ Financial Analyst</li> </ul>
6	15-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Finance Manager</li> <li>➤ Equity Associate</li> <li>➤ Decision Making System</li> </ul>
7	17-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Human Resources</li> <li>➤ Managing Talent</li> <li>➤ Safety</li> <li>➤ HR Responsibilities</li> </ul>
8	18-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ HR Manager</li> <li>➤ Key Responsibilities</li> <li>➤ Assistant Employ Relationships</li> </ul>

  
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9	19-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Job Profiles</li> <li>➤ Product Manager</li> <li>➤ Software Tools knowledge</li> </ul>
10	20-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Retail Managements Systems</li> <li>➤ Supervisions Concepts</li> <li>➤ Stock Management</li> <li>➤ Staffing</li> </ul>
11	21-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Future Growth</li> <li>➤ Sales Improvements</li> <li>➤ Innovative Techniques</li> <li>➤ Impact factor</li> <li>➤ Trending Technology</li> </ul>
12	22-07-2017	9.30 AM to 4.30 PM Lunch Break: 1PM to 2PM	<ul style="list-style-type: none"> <li>➤ Services</li> <li>➤ Broadcast Receivers</li> <li>➤ Question &amp;Answers</li> </ul>



CO-ORDINATOR



**DEAN ACADEMICS**  
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### ABOUT THE COLLEGE

Trinity College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her Endeavor to acquire wholesome education. The very strength of Trinity lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen...

### ABOUT THE DEPARTMENT:

The department offers soft-skills, case-studies, group discussions, expert Professional-Guest & Technical Lectures and Industrial Tours & Visits in addition to their curriculum which in-turn provide, rich professional experience which will be helpful in their professional career and stimulate simulative behavior in their employment career. In the face of present global recession especially in the IT sector resulting in crippling career opportunities since September 2008, a vulnerable necessity as arisen to all the graduates and post graduates in technical education to develop knowledge, skills and ability in the field of management to outshine in the changing global environment. Further, the management course has its stand at the helm as any position in the career finally culminates in administration of management.

### ORGANIZING COMMITTEE

#### CHIEF PATRON

**SRI.D.MANOHAR REDDY**  
FOUNDER OF TRINITY  
EDUCATIONAL INSTITUTIONS  
PATRON

**SRI.D.PRASHANTH REDDY**  
CHAIRMAN OF TRINITY  
EDUCATIONAL INSTITUTIONS  
DEAN ACADEMICS  
**Dr. NAGENDRA SINGH**

#### RESOURCE PERSON

**Dr. G. SANTHOSHI**  
ASST PROFESSOR  
MBA,TCTK

CONTACT: 7032040382

#### COORDINATOR

**MRS. D. RAJITHA**  
ASSISTANT PROFESSOR  
DEPT OF MBA

Mail ID: rajithadornala@gmail.com

CONTACT: 9490287250

Address for communication:  
Trinity college of engineering &  
technology,bommakal,Karimnagar-  
5050001

Email:rajithadornala@gmail.com  
Website:trinityengineering.edu.in

  
**Dr. Nagendra Singh**  
PRINCIPAL

Trinity College of Engineering & Technology  
Karimnagar - 505 001



### DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

### A TWO WEEK CERTIFICATE PROGRAM

ON

### “OPPORTUNITIES FOR MBA STUDENTS”

JULY 10 – JULY 22 , 2017.

### IMPORTANT DATES

Last date for registration:

10.07.2017

**MBA DEPT ORGANIZE  
A TWO WEEK CERTIFICATE  
PROGRAM AND TRAINING ON  
“OPPORTUNITIES FOR MBA  
STUDENTS”**

**JULY 10- JULY 22 , 2017  
REGISTRATION FORM**

**Name:**-----

**Father Name:**-----

**Gender: Male**  **Female**

**Year:**-----

**Semester:**-----

**Department:**-----

**Address:**-----  
-----  
-----

**E-mail id:**-----

**Phone/Mobile:**-----

**Place:**

**Date:**

**ABOUT THE PROGRAMME**

It's a two week certificate program for MBA I & II Year Students. In these days we will discuss about OPPORTUNITIES FOR MBA STUDENTS and its Benefits. Different sectors jobs and its features concentrated. How to overcome the difficulties and how to develop the career everything discussed in these two weeks.

**THE OBJECTIVES**

- Job Profiles
- Product Manager
- Software Tools knowledge
- Future Growth
- Sales Improvements
- Innovative Techniques
- Impact factor
- Finance Manager
- Equity Associate
- Decision Making System

**COURSE CONTENTS**

- Responsibility
- Introduction
- Sales Plans
- Budget Making
- Financial Planning
- Retail Managements Systems
- Supervisions Concepts
- Stock Management
- Services
- Broadcast Receivers
- Question & Answers

**REGISTRATION DETAILS**

**No registration fee**

**The last date for Registration on or before  
10.07.2017**

**ELIGIBILITY**

**The participants should be pursuing MBA  
students.**

  
**Dr. Nagendra Singh**  
**PRINCIPAL**  
Trinity College of Engineering & Technology  
Karimnagar - 505 001

Estd : 2008



**TRINITY**  
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POLYCET, EAMCET, ECET & ICET CODE : **TCTK**  
Office : **9030451394**  
Email ID : **trinity.tctk@gmail.com**  
Website : **www.trinityengineering.edu.in**

Date: 24/07/2017

## PROGRAM REPORT

Name of the Event: "A Two Week Certificate Program on OPPORTUNITIES FOR MBA STUDENTS"

Date: 10-07-2017 TO 22-07-2017.

**Resource Person:** Dr. G. SANTHOSHI

Asst. Professor MBA Dept

Mail ID: santhoshigundi123@gmail.com

Contact: 7032040382

**Coordinator:** Mrs. D. Rajitha

Asst. Professor MBA Dept

Contact: 9490287250

**No. of Students attended:** 66

**Venue:** Seminar Hall, Block – 2

Trinity College of Engineering & Technology, Karimnagar; organized a "A TWO WEEK CERTIFICATE PROGRAM ON OPPORTUNITIES FOR MBA STUDENTS" for MBA I & II Year students 66 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

  
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Engineering & Technology  
KARIMNAGAR-505 001

Near By-Pass Flyover, Bommakal. **KARIMNAGAR. TELANGANA STATE - 505 001.**



**Objectives& Learning outcomes:**

After the completion of this ADD-ON program the students got different sector jobs placed in the MBA Department. They Learn different sector knowledge resources and its factors for getting skills. Conducted different mock tests and interviews in all the areas to improve the standards of the students

- Marketing Fields
- Marketing jobs knowledge
- Interview skills
- Communication skills
- Awareness in market
- Different Sales
- Finance knowledge
- Human Resources Jobs
- Managing talent
- Employer benefits
- Employ relationships
- Financial planning
- Modern Technology
- Retail Management
- Business Analytic
- IT& Systems Jobs
- Profiles Jobs
- Future design

**PHOTO:**



This course was very useful to the students and their feedback is positive. The students and Department Congratulated the resource person and participants for making program successful.

  
Co-ordinator

  
HOD

  
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TRINITY College of  
Engineering & Technology  
KARIMNAGAR-505 001