

2020-21

### Topics Covered:

- About latest changes in Cementitious Materials
- About ground granulated blast-furnace slag and pulverised fly ash
- Admixture Technology
- Latest Fibre Technology

### Outcome of the Programme:

- An ability to analyse advancements in concrete technology
- An ability to analyse to estimate the strength of the structure through this advanced technologies in concrete
- Demonstrate an ability to apply principles of latest advancements in concrete technology

### Program Committee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. K.SUDHAKAR REDDY**  
Asst. Professor, G. pulla Reddy College Of  
Engineering, Kurnool.  
Email id: sudhakarreddy947@gmail.com  
Contact number: 8008286402

### Programme Coordinator:

**Mr. M. Ramesh,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 10-10-2020.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"RECENT ADVANCEMENTS IN  
CONCRETE TECHNOLOGY"**

**12<sup>th</sup> Oct 2020 to 16<sup>th</sup> Oct 2020**

**Organized by  
Department of CIVIL**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevi Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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The ideal junior college had been started to cater to the needs of student community. In due course the jr college flourished into Degree college and P.G courses like M.B.A, M.C.A, M.A, M.Sc and Engineering College.

Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students.

Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature.

In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to

provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students.

Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To learn the basic concepts and principles of recent advancements in concrete technology
- Learn the fundamental analysis methodology of recent advancements in concrete technology
- Apply the course knowledge to do a design project for an recent advancements in concrete technology
- To learn the basic concepts and principles of recent advancements in concrete technology



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date :19-10-2020

## Program Report

**Name of the program:** One week faculty development program on "Recent Advancements in Concrete Technology".

**Duration:** 12-10-2020 to 16-10-2020

**No.of participants:** 10

**Resource personal details:** Mr. K.SUDHAKAR REDDY

Asst.Professor, G.pulla Reddy College Of Engineering,  
Kurnool.

Email id: sudhakarreddy947@gmail.com

Contact number: 8008286402.

**Program co-ordinator:** Mr.M.Ramesh, Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To learn the basic concepts and principles of recent advancements in concrete technology
- Learn the fundamental analysis methodology of recent advancements in concrete technology
- Apply the course knowledge to do a design project for an recent advancements in concrete technology

### **Topics covered:**


- About latest changes in Cementitious Materials
- About ground granulated blast-furnace slag and pulverised fly ash
- Admixture Technology
- Latest Fibre Technology

### **Outcome of the program:**

- An ability to analyse advancements in concrete technology
- An ability to analyse to estimate the strength of the structure through this advanced technologies in concrete
- Demonstrate an ability to apply principles of latest advancements in concrete technology

  
Program co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the program:

- Introduction of various energy management techniques for better energy efficiency.
- Need for better Power Economics.
- The world need for clean energy.

## Topics:

- Various Energy Management techniques.
- Basics of power economics.
- 2012 Grid disturbances.
- Need for energy management
- Asserts in Energy Management.

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accomodation required:      Yes/No

### Note:

Last date for Registration is:

7<sup>th</sup> Nov, 2020

Intimation date: 8<sup>th</sup> Nov, 2020



## PROGRAM COMMITTEE:

**CHIEF PATRON**  
**Dr. P. Krishna Rao**  
Chairman

**PATRON**  
**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

**PRINCIPAL**  
**Dr. T. Srikanth**

**COORDINATOR**  
**Mrs N Rajaveni**  
Asst. Prof. EEE

### ADDRESS FOR COMMUNICATION:

Mrs N Rajaveni  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 9704351719

rajaveni9119@gmail.com

**Speaker:**  
**K.R.K.V. Prasad, Mtech**

Associate professor,  
Aditya College of Engineering and Technology,  
Surampalem,

Email id: krkvprasad219@gmail.com,

Contact number: 8309600083



# IDEAL

INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK

Kakinada



**One week FDP on**  
**"Power Economics and**  
**Energy Management"**

09.11.2020 to 14.11.2020

**Organized by**

# Department of EEE



## About the College:-

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

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The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

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The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:-

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program:-

An energy management system (EMS) is a system of computer-aided tools used by operators of electric utility grids to monitor, control, and optimize the performance of the generation and/or transmission system. Our world is already fraught with rising energy demands. As per the data available, the total energy consumption of the world is expected to increase by 48% before 2040, says a report published by US Energy Information Administration (EIA).

But favorably, employing an energy management system (EMS) in a building – that aims to make use of the energy sources efficiently – may save up to 29% on energy consumption costs. So, efficient energy usage is the solution for this world's ever-rising energy hunger. Now, the term – energy management – might be bringing to you an image of just switching off some unused lights and appliances. But here's the fact – energy management covers more than just switching on & off lights & fans. The process also has a role to play in many areas like Logistics, Industrial Production, Machine Maintenance, the Energy Procurement Process itself, and even your Personal Life.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 17-11-2020

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Power Economics And Energy Management"

**Duration/Dates:** One week/ 09.11.2020 to 14.11.2020.

**No.of participants:** 10

**Resource personal details:** Mr. K.R.K.V Prasad,  
Associate Professor,  
Aditya College Of Engineering And Technology, Surampalem,  
Email id: krkvprasad219@gmail.com,  
Contact number: 8309600083

**Program co-ordinator:** Mrs.N.Rajaveni, Assistant Professor, EEE Department.

### Objective of program:

- Introduction of various energy management techniques for better energy efficiency.
- Need for better Power Economics.
- The world need for clean energy.

### Topics covered:

- Various Energy Management techniques.
- Basics of power economics.
- 2012 Grid disturbances.
- Need for energy management
- Asserts in Energy Management.

### Outcome of the program:

- Gained knowledge on various Energy Management techniques
- Gained knowledge on need of Power economics.

*N. Raja Veni*  
Program co-ordinator

*A. B. Srinivas*  
Head of the department

*T. S. R.*  
Principal

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Programme Content:-

- Introduction of online teaching & information literacy
- Identifying & evaluating external online resources
- Communicative modes of engagement in online teaching
- Assignments, Assessments , Rubrics & Grading
- Building online learning modules.

### Resource Person:

**Dr. M. Radhika Mani**

HoD, CSE,

Pragati Engineering College, Ph:9440484800

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
3<sup>rd</sup> July, 2021

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**

Chairman

### PATRONS

**Dr. P. Chiranjeevini Kumari**

Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### CONVENOR

**Mr. M.S.R.S.Prasad**

Associate Professor & HOD, CSE

### COORDINATORS

**Mr. R.S.V.V. Prasad Rao**

Assistant Professor, CSE

### ADDRESS FOR COMMUNICATION:

**Mr. R.S.V.V. PRASAD RAO**

Coordinator

IDEAL Institute of Technology

Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 8885646864



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE  
ON  
PROFESSIONAL DEVELOPMENT  
FOR QUALITY ONLINE TEACHING**

5<sup>th</sup> to 7<sup>th</sup> July, 2021

### Venue:

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Advancement of fuzzy set theory and neural networks has made its inception for the last five decades with numerous development and applications. Applications of this fuzzy set theory and neural networks can be found from natural sciences, engineering, medicine, management science and artificial intelligence. The objectives of this FDP are Enriching the knowledge of fuzzy logic and Deep Learning Neural Networks with applications in Artificial Intelligence Interactions with nationwide experts in the area of fuzzy logic and Deep Learning Neural Networks, Providing guidelines and directions to begin research and ongoing research.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 18-01-2021

**Name of the programme:** "One week FDP on Professional Development for Quality Online Teaching".

**Duration/Dates:** One week/ 04-01-2021 to 09-01-2021

**No. of participants:** 12

**Resource personal details:** Dr. A. Radha Krishna, Associate Professor, CSE Department, Pragati Engineering College, Ph. No.: 9440614466

**Programme co-ordinator:** Mrs. M. JayaSree, Assistant Professor, CSE Department.

### Topics covered:

- ❖ Introduction to Online Teaching and Information Literacy
- ❖ Identifying and Evaluating External Online Resources
- ❖ Communicative Modes of Engagement in Online Teaching
- ❖ Assignments, Assessments, Rubrics, and Grading
- ❖ Building Online Learning Modules

### Outcome of the programme:

- Participants will utilize information from the online professional development to identify critical elements of an online classroom and implement best practices in an online environment.
- Participants will engage in asynchronous, online discussions and collaboration with peers about teaching and learning online.
- Participants will work on their own course content that will be used to create or modify courses that are already online or will be offered online in the future.

Programme co-ordinator

Head of the department

Principal

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Areas of Data Science:-

There is a strong appetite for data science in areas such as :

- ◆ Industry
- ◆ Banks and Insurances
- ◆ Healthcare
- ◆ Retail
- ◆ Environment
- ◆ Transportation and Urbanism



## REGISTRATION FORM

Name: .....

Designation: .....

Institution: .....

Address for Communication:  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

### FEE PARTICULARS

Accommodation Fee : Rs.300/-per day

**Note:** Last date for Registration is:

2<sup>nd</sup> Jan, 2021

Intimation to the participants:

3<sup>rd</sup> Jan, 2021

### ADDRESS FOR COMMUNICATION:

**Mr.S.D. VIJAYALAKSHMI**

Coordinator

IDEAL Institute of Technology

Vidyut Nagar, Kakinada

Contact us: 9491763902

**LUCKYVICKY.VIN@GMAIL.COM**

### Certificate

Certificates will be issued to the participants after the completion of the course

### Resource Person:

**Dr.V.SAILAJA**

PROFESSOR,

**PRAGATI ENGINEERING COLLEGE**

# A ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON DATA SCIENCE



4<sup>th</sup> - 9<sup>th</sup> Jan, 2021

*Convener*

**Dr.T. Srikanth**

Principal, IDEAL Institute of Technology

*Coordinator*

**Mrs. D. VIJAYALAKSHMI**

Asst. Prof. ECE

Phone : 9491763902

luckyvicky.vin@gmail.com

*Venue*

**SEMINAR HALL,**

**IDEAL INSTITUTE OF TECHNOLOGY**

Vidyut Nagar, Kakinada

*Organized by*

**Department of ECE**



**IDEAL**  
INSTITUTE OF TECHNOLOGY

VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi & Affiliated to JNTUK - Kakinada

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## About the Department:

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes.

Students are performing well in competitive exams like GATE, GRE, TOEFL. Some of the passed out students in prestigious Institutions like IIT's, NIT's and various Universities. A good number of students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

## About the Programme:

The objective of the data scientist is to explore, sort and analyze megadata from various sources in order to take advantage of them and reach conclusions to optimize business processes or for decision support. Examples include machine maintenance or (predictive maintenance), in the fields of marketing and sales with sales forecasting based on weather for example. The use cases are almost infinite...

The pillars on which the data scientist relies most often are data mining (data exploration), statistics, machine learning, search algorithms (random forest, decision tree, regression, neural network...), data visualization (Dataviz) with tools such as Matlo, Qlik... Data science is revolutionizing the processing of corporate or public data that until now were difficult to use with traditional (structured) technologies. The concomitance between the lightning growth of databases, the emergence of new technologies around machine learning, artificial intelligence and Big Data now allow to perform semi-structured data analysis.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 11.01.2021

## PROGRAM REPORT

**Name of the program:** One week Faculty Development Program (FDP) on "Data Science".

**Duration/Dates:** One week/ 04.01.2021 to 09.01.2021.

**No.of participants:** 12

**Resource personal details:** Dr.V.Sailaja, Professor, Pragati Engineering College,

Mail.id:sailaja.v@pragati.ac.in,

contact no:9491444434.

**Programme co-ordinator:** Mrs D.Vijayalakshmi,Asst professor ,ECE dept.

### Objective of the program

- The basic objective of data science is to explore, sort, and analyze mega data from various sources in order to take advantage of them and reach conclusions to optimize business processes for decision support.

### Topics covered:

- Basic function in data science.
- Data science Vs analytics.
- Data science Vs big data.

### Outcome of the program:

- Can test, debug, maintain version control and code in groups.
- Can create an efficient data pipe line using various programming concepts.
- Can evaluate various programming approaches for a specific data science task.

Program Co-ordinator

Head of the department

Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## REGISTRATION FORM

### One week FDP on “smart grid and Renewable energy integration”

Name: .....

Designation: .....

Institution: .....

Address for Communication:

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

### Resource Person:

**Dr.B.Rajani**

Professor, EEE department,  
Aditya college of engineering and technology,surampalem,  
Email id:drtrajaniboddepalli@gmail.com,  
Contact number:8019424826

### Certificate

Certificates will be issued to the participants after the completion of the course

#### FEE PARTICULARS

Accommodation Fee : Rs.300/-per day

**Note:** Last date for Registration is:

6<sup>th</sup> Feb, 2021

Intimate to the Participants:

7<sup>th</sup> Feb, 2021

#### ADDRESS FOR COMMUNICATION:

**Mr. D. Madhu**  
Coordinator

IDEAL Institute of Technology

Vidyut Nagar, Kakinada

Contact us: 9705585827

## One week FDP on “smart grid and Renewable energy integration”

8<sup>th</sup> - 13<sup>th</sup> Feb, 2021

*Convener*

**Dr.T. Srikanth**

Principal, IDEAL Institute of Technology

*Coordinator*

**Mr. D. Madhu**  
Asst. Prof. EEE  
Phone : 9705585827  
madhu272@gmail.com

*Venue*

**SEMINAR HALL,**  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyut Nagar, Kakinada

*Organized by*

**Department of EEE**



**IDEAL**  
INSTITUTE OF TECHNOLOGY

VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi & Affiliated to JNTUK - Kakinada

## About College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, (Late) Dr. N. S. R. Sastry, Dr. P. Chiranjeevi Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students. Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature. In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute. The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning. Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

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The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

## About the Department:

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program:

Smart grid technology is enabling the effective management and distribution of renewable energy sources such as solar, wind, and hydrogen. The smart grid connects a variety of distributed energy resource assets to the power grid. Renewable Energy Integration focuses on incorporating renewable energy, distributed generation, energy storage, thermally activated technologies, and demand response into the electric distribution and transmission system.

In April 2019, the amount of energy generated from renewable resources such as wind, solar and hydropower for the first time exceeded the total energy churned out by coal-powered electric plants, according to the Electric Power Monthly, published by the U.S. Energy Information Administration. It was a landmark event, although renewable's superiority was expected to be short-lived once seasonal adjustments such as the increase in hydropower dip. Still, it's hard to overlook the ascendancy of renewable electric power generation. Renewable energy, whether produced by regional utilities or self-contained enterprises, is thriving, and IoT infrastructure and related technologies can claim a considerable amount of credit for its rise. IoT enables effective management of these volatile and often widely dispersed electricity-producing resources through smart grid technology.

## Topics:

- Importance of emerging role of Smart Grids for future Power Systems
- Differences between Traditional Grids and Smart Grids
- Grid Integration and Renewable energy storage, integration and prediction.
- Grid integration challenges and prospective solutions
- The role of Smart Grid in Integrating Renewable Energy
- Comprehensive overview of Smart Grid Pilot Projects



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 18-02-2021

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Smart Grid And Renewable Energy Integration"

**Duration/Dates:** One week/ 08.02.2021 to 13.02.2021.

**No.of participants:** 10

**Resource personal details:** Dr.B.Rajani,  
Professor,EEE Department,  
Aditya College Of Engineering &Technology, Surampalem,  
Email id:dr Rajaniboddepalli @gmail.com,  
Contact number:8019424826

**Programme co-ordinator:** Mr.D.Madhu, Assistant Professor, EEE Department.

### Objective of program:

- To enhance the knowledge of the participants in the area of the "Smart Grid and Renewable Energy Integration
- Developing practical strategies that energy generators
- Project developers and grid operators can implement to overcome obstacles posed by local planning schemes and regulations, in an intelligent, cost-efficient and timely way

### Topics covered:


- Importance of emerging role of Smart Grids for future Power Systems
- Differences between Traditional Grids and Smart Grids
- Grid Integration and Renewable energy storage, integration and prediction.
- Grid integration challenges and prospective solutions

### Outcome of the program:

- Learn about the role of Smart Grid in Integrating Renewable Energy
- Know about differences between Traditional Grids and Smart Grids
- Got knowledge in grid Integration and Renewable energy storage, integration and prediction.

  
Program co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Topics Covered:

- Involvement of child labour.
- Health hazards.
- Volume of E-Waste generated.
- E-Waste imports.
- Lack of infrastructure.
- Poor awareness and sensitization outcome of the programme.

### Outcome of the Programme:

- The consumption of material resources and the waste generation that accompanies it can result in contamination of our air, land and water.
- The amount of waste is minimal and the waste management choices protect the environment.

### Program Committee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Dr. GANGAVARAPU SUREKHA**  
Asst. Professor, KIET.  
Email id: nsurekha1@gmail.com  
Contact number: 9542868788

### Programme Coordinator:

**Ms. D. Ramya,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

.....

.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 20-02-2021.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"ELECTRONIC WASTE MANAGEMENT"**

**22<sup>nd</sup> Feb 2021 to 26<sup>th</sup> Feb 2021**

**Organized by  
Department of CIVIL**

## About the College

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The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

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The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students.

Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To learn the access the activities involved for the proposed and determine the type, nature and estimated volumes of waste to be generated.
- To identify any potential environmental impact from generations of waste at the site.
- To increase recycling and reuse and to convert the remaining waste.
- To reduce and eliminate and adverse impacts of waste on human health and environment.
- Increase recycling and reuse and to convert the remaining waste.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 01-03-2021

## Program Report

**Name of the program:** One week faculty development program on "Electronic Waste Management".

**Duration:** 22-02-2021 to 26-02-2021

**No. of participants:** 10

**Resource personal details:** Dr. GANGAVARAPU SUREKHA

Asst. Professor, KIET.

Email id: nsurekha1@gmail.com

Contact number: 9542868788

**Programme co-ordinator:** Ms.D.Ramya, Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To learn the access the activities involved for the proposed and determine the type, nature and estimated volumes of waste to be generated.
- To identify any potential environmental impact from generations of waste at the site.
- To reduce and eliminate and adverse impacts of waste on human health and environment.
- Increase recycling and reuse and to convert the remaining waste.

### **Topics covered:**

- Involvement of child labour.
- Health hazards.
- Volume of E-Waste generated.
- E-Waste imports.
- Lack of infrastructure.
- Poor awareness and sentization outcome of the programme.

### **Outcome of the program:**

- The consumption of material resources and the waste generation that accompanies it can result in contamination of our air, land and water.
- They identified potential environmental impact from generations of waste at the site.
- Using the recycling method to protect the environment from the waste.

  
Program co-ordinator



Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the department

## Objective of the Programme:

Globalization is characterized by the free flow of technology.

Focusing on the effect of human systems on environmental systems.

## Topics Covered:

Organization Environmental Learning.

A strategic partnership between HRD and Environmental change.

Linking HRD and environmental management.

## Outcome of the Programme:

Promoting education, public awareness and training

These have given rise to the practice of HRD in environmental management.

## Program Committee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 05-03-2021.

### Resource Person Details:

**Dr. Raghavan, Professor**  
Chaitanya Institute of Science & Technology,  
Ph no: 9133111158,  
Email: raghavan@gmail.com

### Programme Coordinator:

**Smt. M. Sireesha**  
Assistant Professor, H&Bs Department



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"HRD IN EVERCHANGING  
GLOBAL ENVIRONMENT"**

**08<sup>th</sup> Mar 2021 to 13<sup>th</sup> Mar 2021**

**Organized by  
Department of H&BS**

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## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the



# IDEAL INSTITUTE OF TECHNOLOGY

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Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## REPORT

Date: 16.03.2021

Name of the programme: "One Week Online Faculty Development Program on HRD in Everchanging Global Environment"

Duration/Dates: One Week/ 08.03.2021 to 13.03.2021

No.of participants: 10

Resource personal details: Dr.Raghavan, Professor,  
Chaitanya Institute of Science & Technology,  
Ph no: 9133111158,  
Email: raghavan@gmail.com

Programme Co-ordinator: Smt. M.Sireesha, Assistant Professor,  
H &BS Department.

### Objective of the programme :

1. Globalization is characterized by the free flow of technology.
2. Focusing on the effect of human systems on environmental systems.

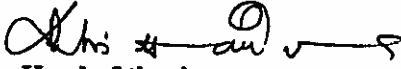
### Topics covered:

1. Organization Environmental Learning.
2. A strategic partnership between HRD and Environmental change.
3. Linking HRD and environmental management.

### Outcome of the programme:

1. Promoting education, public awareness and training
2. These have given rise to the practice of HRD in environmental management.

  
Programme Co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA

2019-20

## Objective of the Programme:

To learn the basic concepts and principles of Financial Planning.

The theme of the FDP was Financial Planning & Investing for Individuals.

The FDP was therefore aimed at giving insights to the participants about the vital aspects of financial planning people.

## Topics Covered:

The idea of Long Term, Medium Term and Short-Term Financial Goals and the strategies to achieve them.

Finance & Accountancy on the topic "Investment in Precious Metals and Mutual Funds"

The theme of the Talk was "Investment in Equity Markets and Bonds".

The concept of Bonds and the pros and cons of investing in Bonds.

## Outcome of the Programme:

Discussing about the benefits of investing in precious metals like gold and silver and the modes of investing in them.

Investment in Real Estate and Housing Loans.

The concept of Credit Rating of an individual and its importance for the purpose of obtaining loans.

## Program Comitee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 24-05-2019.

### Resource Person Details:

**Smt. M.Prathyusha,**  
Assistant Professor, Aditya Business School,  
Surampalem. Ph no:9177652222,  
Email : Vabhilineniprathyusha@gmail.com

### Programme Coordinator:

**Smt.K.Rama Sunitha,**  
Assistant Professor, H&Bs Department



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"FINANCIAL SECURITIES"**

**27<sup>th</sup> May 2019 to 01<sup>st</sup> Jun 2019**

**Organized by  
Department of H&BS**

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# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## REPORT

Date:04.06.2019

Name of the Programme: "One Week Faculty Development Program on Financial Securities."

Duration/Dates: One week/ 27.05.2019 to 01.06.2019

No. of participants: 10

Resource personal details: Smt. M.Prathyusha, Assistant Professor,

Aditya Business School, Surampalem.

Ph no:9177652222,

Email : Vabhilineniprathyusha@gmail.com

Programme Co-ordinator: Smt.K.RamaSunitha, Assistant Professor,

H & BS Department.

### Objective of the programme:

- To learn the basic concepts and principles of Financial Planning.
- The theme of the FDP was Financial Planning & Investing for Individuals.
- The FDP was therefore aimed at giving insights to the participants about the vital aspects of financial planning people.

### Topics covered:

- The idea of Long Term, Medium Term and Short-Term Financial Goals and the strategies to achieve them.
- Finance & Accountancy on the topic "Investment in Precious Metals and Mutual Funds"
- The theme of the Talk was "Investment in Equity Markets and Bonds".
- The concept of Bonds and the pros and cons of investing in Bonds.

### Outcome of the programme:

- Discussing about the benefits of investing in precious metals like gold and silver and the modes of investing in them.
- Investment in Real Estate and Housing Loans.
- The concept of Credit Rating of an individual and its importance for the purpose of obtaining loan

*K. Rama Sunitha*  
Programme Co-ordinator

*T. S. K.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*K. R. S. S.*  
Head of the Department

## **Programme Content:-**

Topic 1. Introduction on Fuzzy Logic, Fuzzy Sets, and Fuzzy Mathematical Principles.

Topic 2. Fuzzy Mathematical Modelling in Artificial Intelligence using Decision Making Methods, Fuzzy Clustering Techniques and Fuzzy Control theory.

Topic 3. Applications of Fuzzy Logic in Manufacturing Technology, Computer Science and Engineering, Optimization Problems in Transportation Engineering and Management and Power systems and Electrical Engineering.

Topic 4. Introduction to Intuitionistic Fuzzy sets, Modelling of Incomplete Imprecise Information and its applications.

### **Resource Person:**

**Dr. A. Radha Krishna**

Associate Professor, CSE,  
Pragati Engineering College, Ph:9440614466

### **REGISTRATION FORM**

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

### **Note:**

Last date to Registration:  
15<sup>th</sup> June, 2019

## **PROGRAM COMMITTEE:**

### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

### **PATRONS**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### **PRINCIPAL**

**Dr. T. Srikanth**

### **CONVENOR**

**Mr. M.S.R.S. Prasad**  
Associate Professor & HOD, CSE

### **COORDINATORS**

**Mrs. M. Jayasree**  
Assistant Professor, CSE

### **ADDRESS FOR COMMUNICATION:**

**Mrs. M. Jayasree**  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 7013140844



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE**  
**ON**  
**ADVANCES IN FUZZY LOGIC**  
**AND NEURAL NETWORKS IN AI**

17<sup>th</sup> to 22<sup>nd</sup> June, 2019

### **Venue:**

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

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The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be a dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Advancement of fuzzy set theory and neural networks has made its inception for the last five decades with numerous development and applications. Applications of this fuzzy set theory and neural networks can be found from natural sciences, engineering, medicine, management science and artificial intelligence. The objectives of this FDP are Enriching the knowledge of fuzzy logic and Deep Learning Neural Networks with applications in Artificial Intelligence Interactions with nationwide experts in the area of fuzzy logic and Deep Learning Neural Networks, Providing guidelines and directions to begin research and ongoing research.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 25-06-2019

**Name of the programme:** "One week FDP on Advances in Fuzzy Logic & Neural Networks in AI".

**Duration/Dates:** One week/ 17-06-19 to 22-06-19

**No. of participants:** 11

**Resource personal details:** Dr. A. Radha Krishna, Associate Professor, CSE Department, Pragati Engineering College, Ph. No.: 9440614466

**Programme co-ordinator:** Mrs. M. JayaSree, Assistant Professor, C.S.E. Department.

### **Topics covered:**

- ❖ Introduction on Fuzzy Logic, Fuzzy Sets, and Fuzzy Mathematical Principles.
- ❖ Fuzzy Mathematical Modelling in Artificial Intelligence using Decision Making Methods, Fuzzy Clustering Techniques, and Fuzzy Control theory.
- ❖ Applications of Fuzzy Logic in Manufacturing Technology, Computer Science and Engineering, Optimization Problems in Transportation Engineering and Management and Power Systems, and Electrical Engineering.
- ❖ Introduction to Intuitionistic Fuzzy sets, Modelling of Incomplete Imprecise Information, and its applications.
- ❖ Fundamentals of first and second-generation Neural Networks using Matlab programming and tools along with hybrid techniques in Engineering applications.
- ❖ Recent advances in Deep Learning techniques in AI using Bio Plausible and Deep Neural networks with the illustration.

### **Outcome of the programme:**

- Understand usage of fuzzy logic & fuzzy mathematical modelling
- Implementing fundamentals using matlab

**Programme co-ordinator**

**Head of the department**

Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Major Course Content:-

Overview of Embedded systems in practical world

- Introduction to Sensors and Actuators
- Arduino and its Programming
- Interfacing sensors and actuators to Arduino
- Introduction to Internet of Things (IoT)
- Wireless communication technologies and protocols for
- IoT Implementing IoT with Arduino
- Introduction to Raspberry PI
- Programming RaspberryPi with Python
- Implementing IoT with RaspberryPi

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:.....

Accommodation required: Yes/No

### **Note:**

*Last date for Registration is:*

*30<sup>th</sup> June, 2019*

*Intimation to the participants:*

*30<sup>th</sup> June, 2019*

## PROGRAM COMMITTEE:

### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

### **PATRON**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### **PRINCIPAL**

**Dr. T. Srikanth**

### **COORDINATOR**

**Mr. P.S.J. Sreeram**  
*Asst. Prof. ECE*

### **ADDRESS FOR COMMUNICATION:**

**Mr.P.S.J. SREERAM**

Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 9441138058

sreeram453@gmail.com



# IDEAL

**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK

Kakinada



**ONE WEEK FDP**

**ON**

**EMBEDDED SYSTEM &**

**IOT**

1<sup>st</sup> to 6<sup>th</sup> July, 2019

**Organized by**

**Department of ECE**

## About the College:-

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The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:-

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes. Students are performing well in competitive exams like GATE, GRE, TOEFL. Some of the passed out students are pursuing PG Programmes in prestigious Institutions like IIT's, NIT's and various Universities. A good number of students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

## About the Program:-

The "Embedded Systems" and "Internet of Things (IoT)" is becoming an increasingly growing topic of conversation both in the workplace and outside of it. There are so many complexities around the "Internet of Things" which we are going to discuss the "Things" in the session of Internet of Things. The course focus on Raspberry Pi 3 upgrades, which is a next generation Quadcore Broadcom BCM 2837, 64-bit ARMv8 processor with Wi-Fi chip built in to Raspberry Pi. The course also focuses on Python Scripting Language and Basic Linux commands with applications of Embedded Systems and IoT

**Resource Person:**  
**MR. P. VENUMADHAV**

ASSOCIATE PROFESSOR, ECE,  
PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY,  
VILAYAWADA



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 09.07-2019

## PROGRAM REPORT

**Name of the programme:** "One week faculty development program ( FDP) on Embedded Systems &IOT".

**Duration/Dates:** One week/ 01.07.19 to 06.07.19.

**No.of participants:** 7.

**Resource personal details:** Mr.P.Venu Madhav, Associate Professor, Department of ECE,  
PVP siddhartha Institute of Technology, Vijayawada ,  
contact no:9052906648.

Mail id:venumadhav@pvpsiddhartha.com .

**Programme co-ordinator:** Mr.P.S.J.Sreeram,Asst professor ,ECE dept.

### Objective of the programme

- Understanding of IOT & ES including essence, basic design strategies.
- To developing comprehensive approach towards building small low cost embedded IOT system.
- To learn to implement secure infrastructure for IOT.

### Topics covered:

- Design strategies OF ES.
- infrastructure of IOT.
- APPLICATION AREAS OF IOT.
- Building blocks of IOT and their characteristics.

### Outcome of the programme:

- Solve the given societal challenge using IOT.
- Choose between available technologies & devices for stated IOT challenge.
- Get familiarized with programming environment to develop embedded solutions.
- Understand the key concepts of embedded system.

  
Programme co-ordinator

  
Principal

  
Head of the department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Objective of the programme:

- Understand the importance of the Taguchi method in research and in industry
- Apply Taguchi method in their field of application and analyze the effect of factors affecting the response
- Understand and apply Artificial Neural Network (ANN) in research and in industry

### Topics:-

- Introduction to Design of Experiment
- Taguchi method and Analysis of variance, Case studies utilizing the Taguchi Method
- Introduction to Artificial Neural Network
- Hands on Practice

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### Note:

Last date for Registration is:  
20<sup>th</sup> July, 2019

### PROGRAM COMMITTEE:

**CHIEF PATRON**  
**Dr. P. Krishna Rao**  
Chairman

**PATRON**  
**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

**PRINCIPAL**  
**Dr. T. Srikanth**

**COORDINATOR**  
**Mr.CH.RAJU**  
Asst. Prof., ME

### Address for communication:

**Mr. CH. Raju**  
Coordinator  
Assistant Professor, ME department  
Email:raju.iiit2008@gmail.com  
Contact number-9603528705

**Speaker:**  
**Dr.P.S.Ranjit**

Professor, Mechanical department,  
Aditya engineering College

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
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FDP on  
“Design of experiment using  
Taguchi method and  
artificial neural network”

22<sup>nd</sup> to 27<sup>th</sup> July, 2019



### Venue:

Seminar Hall,  
Mechanical Department,  
IDEAL Institute of Technology

Organized by

**MECHANICAL DEPARTMENT**

## About the College

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## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech inovation – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## About the Programme

In this workshop, lectures were delivered on the basic principles of statistics, Design of Experiment, Taguchi method and ANN. Also, a live demonstration on software was given to enhance the learning.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 29-07-2019

## REPORT

**Name of the program:** One week faculty development program on “ Design of Experiment using Taguchi Method and Artificial Neural Network”.

**Duration/Dates:** One week/ 22.07.2019 to 27.07.2019

**No of participants:** 10

**Resource personal details:** Dr.P.S.Ranjit,  
Professor, Mechanical department,  
Aditya engineering College,  
Ph: 9997999448  
Email: psranjit1234@gmail.com

**Program Co-ordinator:** Mr.CH.RAJU, Asst.Professor,  
Department of Mechanical Engineering

**Objective of the program:**

- Understand the importance of the Taguchi method in research and in industry
- Apply Taguchi method in their field of application and analyze the effect of factors affecting the response
- Understand and apply artificial neural network in research and in industry

**Topics covered:**

- Introduction to Design of Experiment
- Taguchi method and Analysis of variance, Case studies utilizing the Taguchi Method
- Introduction to Artificial Neural Network
- Hands on Practice

**Outcome of the program:**

- Analyzing and interpreting the output response to evaluate the factors, which control the value of a parameter or group of parameters
- Ability to understand strategically planned and executed experiment may provide a great deal of information about the effect on a response variable due to one or more factors

  
Program Co-ordinator

  
Head of the Department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Topics Covered:

- Ground improvement techniques.
- Based on field load tests analysing the behaviour of foundations.
- Case histories of geotechnical earthquakes engineering.
- Methods of geotechnical exploration.

### Outcome of the Programme:

- An ability to evaluate the bearing capacity of foundation.
- An ability to analyse the cause of earthquake and quantification.
- Understand need for and methods of ground improvement techniques.

### Program Comittee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. K.SUDHAKAR REDDY**  
Asst.Professor, Gpulla Reddy College Of  
Engineering, Kurnool.  
Email id: sudhakarreddy947@gmail.com  
Contact number:8008286402

### Programme Coordinator:

**Ms. M. Geetha Sri,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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.....  
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Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 02-08-2019.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"PRINCIPLES AND FIELD  
PRACTICES OF GTE"**

**05<sup>th</sup> Aug 2019 to 10<sup>th</sup> Aug 2019**

**Organized by  
Department of CIVIL**

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## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To impart knowledge on the various factors governing the engineering behaviour of soils and the suitability of soils for various geotechnical engineering applications.
- To make the participants gain the state-of-the-art knowledge in geotechnical engineering.
- To enable the ability to evaluate the bearing capacity of foundation.
- To foresee the potential consequences of strong earthquakes on urban areas and civil infrastructure.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 12-08-2019

## Program Report

**Name of the program:** One week faculty development program on "Principles and field practices of GTE".

**Duration:** 05-08-2019 to 10-08-2019

**No. of participants:** 10

**Resource personal Details:** Mr.K.SUDHAKAR REDDY

Asst.Professor,G.pulla Reddy College Of Engineering,  
Kurnool.

Email id:sudhakarreddy947@gmail.com

Contact number:8008286402

**Programme co-ordinator:** Miss.M.Geetha Sri, Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To impart knowledge on the various factors governing the engineering behaviour of soils and the suitability of soils for various geotechnical engineering applications.
- To make the participants gain the state-of-the-art knowledge in geotechnical engineering.
- To enable the ability to evaluate the bearing capacity of foundation.
- To foresee the potential consequences of strong earthquakes on urban areas and civil infrastructure.

### **Topics covered:**

- Ground improvement techniques.
- Based on field load tests analysing the behaviour of foundations.
- Case histories of geotechnical earthquakes engineering.
- Methods of geotechnical exploration.

### **Outcome of the program:**

- An ability to evaluate the bearing capacity of foundation.
- An ability to analyse the cause of earthquake and quantification.
- Understand need for and methods of ground improvement techniques.

*M. Geetha Sri*  
Program co-ordinator

*T. S. H.*  
Principal

*[Signature]*  
Head of the department

## REGISTRATION FORM

### One week FDP on “Soft Computing Applications in Power System”

26<sup>th</sup> - 31<sup>st</sup> August, 2019

Name: .....

Designation: .....

Institution: .....

Address for Communication:

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

#### Resource Person:

**Dr.D. Ravi Kishore**

Professor, EEE department,  
GIET Rajamundry,  
Contact number: 9490711464  
email: dravikishore@gmail.com

#### Certificate

Certificates will be issued to the participants after the completion of the course

#### FEE PARTICULARS

Accommodation Fee : Rs.300/-per day

**Note:** Last date for Registration is:

24<sup>th</sup> August, 2019

Intimate to the Participants:

25<sup>th</sup> August, 2019

#### ADDRESS FOR COMMUNICATION:

**Mr. M. Jagadeesh**  
Coordinator  
IDEAL Institute of Technology  
Vidyut Nagar, Kakinada  
Contact us: 9908038390

## One week FDP

on

### “Soft Computing Applications in Power System”



26<sup>th</sup> - 31<sup>st</sup> August, 2019

*Convener*

**Dr.T. Srikanth**

Principal, IDEAL Institute of Technology

*Coordinator*

**Mr.M. Jagadeesh**

Asst. Prof. EEE

Phone : 9908038390

jagadishmailsu@gmail.com

*Venue*

**SEMINAR HALL, Dept. of EEE**

IDEAL INSTITUTE OF TECHNOLOGY

Vidyut Nagar, Kakinada

*Organized by*

**Department of EEE**



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi & Affiliated to JNTUK - Kakinada

## About College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, (Late) Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students. Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature. In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute. The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning. Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

## About the Department:

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program:

Power engineering software is software used to create models, analyze or calculate the design of Power stations, Overhead power lines, Transmission towers, Electrical grids, Grounding and Lightning systems and others. It is a type of application software which is used for power engineering problems, which are transformed into mathematical expressions.

- Various soft computing techniques.
- Convergence characteristics of algorithms like BPA, Fuzzy and GA  
Randomness in the final output.
- Applications of above techniques to problems like ATC calculations etc.,

## Objectives:

- Application of BPA, Fuzzy Logic and GA to power system problems.
- Issues like Capacitor placement, DG placement, Load flows and Economic Load
- Dispatch solved using Soft computing techniques.

## Topics:

- Various soft computing techniques.
- Convergence characteristics of algorithms like BPA, Fuzzy and GA
- Randomness in the final output.
- Applications of above techniques to problems like ATC calculations etc.,



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 03-09-2019

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Soft Computing Applications In Power System"

**Duration/Dates:** One week/ 26.08.19 to 31.08.2019

**No.of participants:** 10

**Resource personal details:** Dr.D.Ravi Kishore,  
Professor, EEE Department, GIET ,Rajamundry,  
Email id:dravikishore@gmail.com  
Contact number: 9490711464

**Program co-ordinator:** Mr.M.Jagadeesh, Assistant Professor, EEE Department.

### Objective of program:

- Application of BPA, Fuzzy Logic and GA to power system problems.
- Issues like Capacitor placement, DG placement, Load flows and Economic Load Dispatch solved using Soft computing techniques.

### Topics covered:


- Various soft computing techniques.
- Convergence characteristics of algorithms like BPA, Fuzzy and GA  
Randomness in the final output.
- Applications of above techniques to problems like ATC calculations etc.,

### Outcome of the program:

- Gained knowledge on various Soft Computing Techniques
- Designing and usage of better soft computing techniques for power system issues.

  
Program co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the Programme:

Appreciate the usefulness, power and beauty of mathematics

Enjoy mathematics and develop patience and persistence when solving problems

Understand and be able to use the language, symbols and notation of mathematics

Develop mathematical curiosity and use inductive and deductive reasoning when solving problems

## Topics Covered:

Geometry and Cartesian Geometry.

Calculus- Differential and Integral.

Matrix Algebra.

Probability and Statistics.

## Outcome of the Programme:

Improve performance of faculty members in education and research as well as increase the value of organizational capacities and culture.

Bring Researchers, Academia and Technocrats from different parts of the country to a common platform for exchanging and sharing the recent developments in some of the areas of Mathematics and Statistics.

## Program Committee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 19-10-2019.

### Resource Person Details:

**Mrs. R. Uma Maheswari,**  
Associate Professor, KIET Engineering College for Women,

Ph no: 9494664074,

Email: [kietcubs@gmail.com](mailto:kietcubs@gmail.com)

### Programme Coordinator:

**Mr. D.P.S. Kiran,**  
Assistant Professor, H&Bs Department



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"RECENT TRENDS IN APPLICATIONS  
OF MATHEMATICS"**

**21<sup>st</sup> Oct 2019 to 26<sup>th</sup> Oct 2019**

**Organized by  
Department of H&BS**

## About the College

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The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be a dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Report

Date: 29.10.2019

Name of the Programme: "One Week Faculty Development Program on Recent Trends in Applications of Mathematics".

Duration/Dates: One week/ 21.10.2019 to 26.10.2019

No. of Participants: 12

Resource personal details: Mrs. R.Uma Maheswari, Associate Professor,

KIET Engineering College for Women,

Ph no: 9494664074,

Email: kietcubs@gmail.com

Programme Co-ordinator: Mr. D.P.S. Kiran, Assistant Professor,

H&Bs Department.

### Objectives of the Programme:

- Appreciate the usefulness, power and beauty of mathematics
- Enjoy mathematics and develop patience and persistence when solving problems
- Understand and be able to use the language, symbols and notation of mathematics
- Develop mathematical curiosity and use inductive and deductive reasoning when solving problems

### Topics covered:

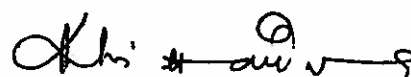
- Geometry and Cartesian Geometry.
- Calculus- Differential and Integral.
- Matrix Algebra.

### Outcome of the Programme:

- Improve performance of faculty members in education and research as well as increase the value of organizational capacities and culture.
- Bring Researchers, Academia and Technocrats from different parts of the country to a common platform for exchanging and sharing the recent developments in some of the areas of Mathematics and Statistics

  
Programme Co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the Department

## Programme Content:-

- Introduction to Data Sciences Concepts
- Data structures in python
- Reading and writing different kinds of data formats in Python
- Data Pre-processing using Python
- Machine Learning-Techniques
- Visualization of Data
- Neural network models and Deep-Learning
- Introduction to Data Security
- Hands-on session on the Python and Data visualization.

### Resource Person:

**Dr. A. Radha Krishna**

Associate Professor, CSE,  
Pragati Engineering College, Ph:9440614466

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:.....

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
5<sup>th</sup> Jan, 2020

## PROGRAM COMMITTEE:

### **CHIEF PATRON**

**Dr. P. Krishna Rao**

Chairman

### **PATRONS**

**Dr. P. Chiranjeevini Kumari**

Secretary & Correspondent

### **PRINCIPAL**

**Dr. T. Srikanth**

### **CONVENOR**

**Mr. M.S.R.S.Prasad**

Associate Professor & HOD, CSE

### **COORDINATORS**

**Mrs. M. Jayasree**

Assistant Professor, CSE

### **ADDRESS FOR COMMUNICATION:**

**Mrs. M. Jayasree**

Coordinator

**IDEAL Institute of Technology**  
Vidyut Nagar, Kakinada -533003 (A.P.)

Contact us: 8885646864



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE**  
**ON**  
**DATA STRUCTURES USING**  
**PYTHON PROGRAMMING**

**6<sup>th</sup> to 11<sup>th</sup> Jan, 2020**

### **Venue:**

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Data science is a multi-disciplinary area that uses scientific methods, algorithms and systems to extract hidden knowledge and insights from data (Structured and Unstructured). It is the study of where information comes from, what it represents and how it can be transformed into a valuable resource in the creation of business and IT strategies. Mining large amounts of structured and unstructured data to identify patterns can help an organization in many ways. Data Science is confluence of mathematics, statistics and computer science disciplines, and incorporates techniques like machine learning, cluster analysis, data mining and visualization. As Python programming language is framed for Data Science applications it is essential to visualize Data science applications using Python to ripe maximum benefits. Hence, it is important to bring awareness among researchers & academicians and train manpower on data science using Python programming to do innovative research, projects and to create knowledge base.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 20-01-2020

**Name of the programme:** "One week FDP on Data Structures using Python Programming".

**Duration/Dates:** One week/ 06-01-2020 to 11-01-2020

**No. of participants:** 12

**Resource personal details:** Dr. A. Radha Krishna, Associate Professor, CSE Department, Pragati Engineering College, Ph. No.: 9440614466

**Programme co-ordinator:** Mrs. M. JayaSree, Assistant Professor, C.S.E. Department.

### Topics covered:

- ❖ Introduction to Python programming.
- ❖ Introduction to data structures in python
- ❖ Implementation of lists.
- ❖ Implementation of sets & tuples
- ❖ Implementing data dictionary
- ❖ Real-time usage of data structures

### Outcome of the programme:

- Understand data structures in python
- Understanding differences among several data structures in python

Programme co-ordinator

Head of the department

Principal

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## REGISTRATION FORM

### A ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON DSP PROCESSORS

21<sup>st</sup> - 25<sup>th</sup> Jan, 2020

Name: .....

Designation: .....

Institution: .....

Address for Communication: .....

Mobile:.....

email:.....

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

**Payment Details:** DD drawn in favour of “ .....

” payable at .....

#### FEE PARTICULARS

Accommodation Fee : Rs.300/-per day

**Note:** Last date for Registration is:

13<sup>th</sup> Jan, 2020

Intimation to the participants:

18<sup>th</sup> Jan, 2020

#### ADDRESS FOR COMMUNICATION:

Mr.M.VARA PRASAD

Coordinator

IDEAL Institute of Technology

Vidyut Nagar, Kakinada

Contact us: 8142686863

varaprasad.mortha@gmail.com

#### Certificate

Certificates will be issued to the participants after the completion of the course

#### Resource Person:

**Dr.M.SIVAKUMAR**

PROFESSOR,

K.LUNIVERSITY,

GUNTUR

## A ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON DSP PROCESSORS



20<sup>th</sup> - 25<sup>th</sup> Jan, 2020

*Convener*

**Dr.T. Srikanth**

Principal, IDEAL Institute of Technology

*Coordinator*

**Mr. M. Vara Prasad**

Asst. Prof. ECE

Phone : 8142686863

varaprasad.mortha@gmail.com

*Venue*

**SEMINAR HALL,**

IDEAL INSTITUTE OF TECHNOLOGY

Vidyut Nagar, Kakinada

*Organized by*

**Department of ECE**



# IDEAL

INSTITUTE OF TECHNOLOGY

VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi & Affiliated to JNTUK - Kakinada

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## About the Department:

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes.

Students are performing well in competitive exams like GATE, GRE, TOEFL. Some of the passed out students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

## About the Programme:

Signal processing is concerned with the representation, manipulation and transformation of signals and the information that they carry. It provides techniques for processing acquired time-series data for the purpose of efficient analysis and synthesis. Over the years, it has been developed to give great advancements in the areas of microchips, digital systems and computer hardware. The applications of signal processing are vast and interdisciplinary, ranging from engineering to economics and astronomy to biology. The research in many areas such as signal coding and de noising has paved the path for advancements. Recent decade has witnessed major revolution in communication and processing of digital media. As a consequence solutions to major problems in processing, transmission and reception have made signal processing an integral part of modern electronic systems. This program will provide an opportunity to highlight recent trends and developments to identify emerging and future areas of growth in these exciting fields. It will further give impetus to the researchers towards bringing out newer and efficient techniques.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 27.01.2020

## PROGRAM REPORT

**Name of the programme:** One week Faculty development program (FDP) on “ DSP PROCESSORS”.

**Duration/Dates:** One week/ 20.01.2020 to 25.01.2020.

**No.of participants:** 7.

**Resource personal details:** Dr.M.Sivakumar, Professor,KL University, Guntur,  
Mail id: siva4580@kluniversity.in , Contact no:8985822821.

**Programme co-ordinator:** Mr.M.Varaprasad ,Asst professor ,ECE dept.

### Objective of the program

- To encourage participants in research & innovation in the field of DSP and promote entrepreneurship through training.
- To enable the participants to hone their skills and make them resource persons.
- To update the knowledge of participants through mutual interactions and knowledge sharing.
- To enhance the knowledge of the participants through mutual interactions and knowledge Sharing.

### Topics covered:

- Components of DSP processor.
- System design in DSP.
- Image data processing and analysis.
- Various algorithms along with their structures.

### Outcome of the program:

- The fdp provided inputs to the participants on DSP Processors which will enhance their ability to work in inter disciplinary areas. Concept of DSP processors and their applications.

Program co-ordinator

Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Objective of the programme:

The main objective of this FDP was to develop the creating thinking to develop something new that doesn't exist.

### Topics:-

- Modeling and Analysis using Software
- Prototyping and Proofing of Concepts
- Engineering Economics of Design
- . Design for Use, Reuse and Sustain-ability
- Test the prototype
- Ethics in Design

### Resource Person:

**Dr. T. Jayanand**

Professor,

Department of Mechanical engineering,  
Godavari Institute of Engineering and Technology

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required:      Yes/No

Accommodation Fee:300/- per day

### PROGRAM COMMITTEE:

#### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

#### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### PRINCIPAL

**Dr. T. Srikanth**

#### COORDINATOR

**Mr.G. Ravikumar**  
Asst. Prof. ME

### Address for communication:

**Mr. G.RAVIKUMAR**

Coordinator

Department of Mechanical Engineering,  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 9948093805  
Email: rk.gorsagmail.com@gmail.com

### Note:

Last date for Registration is:  
1<sup>st</sup> Feb, 2020

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP  
on  
"Design Engineering"**

3<sup>rd</sup> to 8<sup>th</sup> Feb, 2020



### Venue:

Seminar Hall,  
Mechanical Dept.,  
IDEAL Institute of Technology

### Organized by

**MECHANICAL DEPARTMENT**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, (Late) Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

During early seventies Kakinada used to have only two colleges. Student community used to suffer a set-back to upgrade their education even to the level of intermediate. The ideal junior college had been started to cater to the needs of student community. In due course the jr. college flourished into Degree college and P.G courses like M.B.A, M.C.A, M.A, M.Sc and Engineering College.

Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students. Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature. In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be a dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech invasion – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

### Program Highlights:-

- AEIOU Summary
- Empathy Mapping
- Ideation Canvas
- Product development canvas
- Learning Need Matrix
- Prototype model



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 10-02-2020

## REPORT

**Name of the program:** One week faculty development program on "Design Engineering"

**Duration/Dates:** One week/ 03.02.2020 to 08.02.2020

**No of participants:** 10

**Resource personal details:** Dr. T. Jayanand,  
Professor, Department of Mechanical engineering,  
Godavari Institute of Engineering and Technology,  
Ph : 9440128113  
Email: jktatipaka@gmail.com

**Programme Co-ordinator:** Mr. G.RAVIKUMAR, Asst.Professor,  
Department of Mechanical Engineering

**Objective of the program:**


- The main objective of this FDP was to develop the creating thinking to develop something new that doesn't exist

**Topics covered:**


- Modeling and Analysis using Software
- Prototyping and Proofing of Concepts
- Engineering Economics of Design
- Design for Use, Reuse and Sustain-ability
- Test the prototype
- Ethics in Design

**Outcome of the program:**

- To understand the AEIOU Summary , Empathy Mapping ,Ideation Canvas
- Ability to understand Product development canvas, Learning Need Matrix ,Prototype model

  
Program Co-ordinator

  
Head of the Department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the program:

- Application of BPA, Fuzzy Logic and GA to power system and Power Electronic problems.
- Issues like Capacitor placement, DG placement, Load flows and Economic Load Dispatch, Closed loop control of Multi Level inverters solved using Artificial Intelligent Techniques

## Topics:-

- Various Artificial Intelligent Techniques.
- Convergence characteristics of algorithms like BPA, Fuzzy and GA
- Randomness in the final output.
- Applications of above techniques to problems like ATC calculations, Converter Control etc.

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:.....

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### COORDINATOR

**Mr. D. Madhu**  
Asst. Prof. EEE

### Address for communication:

**Mr.D Madhu**

Coordinator

Assistant Professor, EEE, department  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 9705585827, madhu272@gmail.com

### Speaker:

**Dr.B.Rajani**

Professor, EEE Department,  
Aditya College of Engineering and Technology,  
Surampalem, drrajaniboddepalli @gmail.com,  
Contact number:8019424826

### Note:

Last date for Registration is: 8<sup>th</sup> Feb, 2020

Intimation date: 9<sup>th</sup> Feb, 2020

Certificates will be issued to the participants  
after the completion of the course



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP on  
"Applications of Artificial  
Intelligence Techniques to  
Power System and  
Power Electronics Issues"**

**10<sup>th</sup> to 15<sup>th</sup> Feb, 2020**



### Venue:

Seminar Hall,  
IDEAL Institute of Technology

**ORGANIZED BY  
EEE DEPARTMENT**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

Artificial intelligence power system is developing rapidly at present, artificial intelligence includes expert system, artificial neural network, fuzzy diagnosis theory and genetic algorithm. Each has its advantages and limitations, and the lack of a universal and effective method applied to all fields of power system. The artificial intelligence which is an important branch of computer science or computer engineering includes expert system, fuzzy logic, artificial neural network and genetic algorithm. The application of artificial intelligence in electrical engineering, power electronics and motion control has been rapidly extended recently. The objective of this chapter is to describe how neuro-fuzzy techniques can be applied in the automatic control area, particularly in feedback control. In addition, the fuzzy logic and neural network principles are briefly studied and the applications of neural networks techniques in converter modeling and the control of power electronics converters are described.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 18-02-2020

## Program Report

**Name of the program:** One week FDP on "Applications Of Artificial Intelligence Techniques To Power Systems And Power Electronic Issues"

**Duration/Dates:** One week/ 10.02.2020 to 15.02.2020.

**No.of participants:** 10

**Resource personal details:** Dr.B.Rajani,  
Professor, EEE Department,  
Aditya College Of Engineering & Technology, Surampalem,  
Email id: drrajaniboddepalli@gmail.com,  
Contact number: 8019424826.

**Program co-ordinator:** Mr.D.Madhu, Assistant Professor, EEE Department.

### Objective of program:

- Application of BPA, Fuzzy Logic and GA to power system and Power Electronic problems.
- Issues like Capacitor placement, DG placement, Load flows and Economic Load Dispatch, Closed loop control of Multi Level inverters solved using Artificial Intelligent Techniques

### Topics covered:


- Various Artificial Intelligent Techniques.
- Convergence characteristics of algorithms like BPA, Fuzzy and GA
- Randomness in the final output.
- Applications of above techniques to problems like ATC calculations, Converter Control etc.,

### Outcome of the program:

- Gained knowledge on various Artificial Intelligent Techniques
- Designing and usage of better Artificial Intelligent Techniques for power system and power electronics issues.

  
Program co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Topics Covered:

- Overview of Research and its Methodologies.
- Literature review, Selecting and defining a research problem
- Conducting Research, examples, Writing Research report/proposals and Thesis
- Publication ethics: definition, introduction and importance, best practices and Identification of publication misconduct

### Outcome of the Programme:

- Provide knowledge, general competence, and analytical skills in Research Methodology and Research & Publication Ethics.
- Build their foundation for research in Civil Engineering
- Build a strong foundation for future research work in a systematic manner by applying notions of Research Methodology.
- Gain ability to apply knowledge of Civil Engineering to research in real-world issues.

### Program Committee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. DANDRU APPANNA**  
Asst. Professor, Lenora College Of Engineering,  
Rampachodavaram.  
Email id: appannanani78@gmail.com  
Contact number: 9491252941

### Programme Coordinator:

**Mr. R.Kiran Kumar,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 06-03-2020.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"RESEARCH METHODOLOGY IN  
RESEARCH AND PUBLICATION ETHICS"**

**09<sup>th</sup> Mar 2020 to 14<sup>th</sup> Mar 2020**

**Organized by  
Department of CIVIL**

## About the College

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Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To understand some basic concepts of research and its methodologies.
- To identify appropriate research topics., select and define appropriate research problem and parameters
- To Become familiar with and understand different publication ethics areas



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 16-03-2020

## Program Report

**Name of the program:** One week faculty development program on "Research Methodology in Research and Publication Ethics".

**Dates:** 09-03-2020 to 14-03-2020

**No. of participants:** 10

**Resource personal details:** Mr. DANDRU APPANNA

Asst. Professor, Lenora College of Engineering,

Rampachodavaram.

Email id: appannanani78@gmail.com

Contact number: 9491252941

**Programme co-ordinator:** Mr. R. Kiran Kumar, Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To understand some basic concepts of research and its methodologies.
- To identify appropriate research topics., select and define appropriate research problem and parameters
- To Become familiar with and understand different publication ethics areas

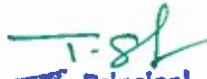
### **Topics covered:**

- Overview of Research and its Methodologies.
- Literature review, Selecting and defining a research problem
- Conducting Research, examples, Writing Research report/proposals and Thesis
- Publication ethics: definition, introduction and importance, best practices and Identification of publication misconduct

### **Outcome of the program:**

- Provide knowledge, general competence, and analytical skills in Research Methodology and Research & Publication Ethics.
- Build their foundation for research in Civil Engineering
- Build a strong foundation for future research work in a systematic manner by applying notions of Research Methodology.
- Gain ability to apply knowledge of Civil Engineering to research in real-world issues.

  
Program co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA

  
Head of the department

2018-19

## Programme Content:-

- Industrial Internet of Things, Introduction of Arduino IDE Arduino Mega /UNO
- Introduction of Python, Raspberry Pi
- Different protocols, IoT Device Design & Management, WebSocket, OPC and UA
- Working with different wireless networking technology
- Industrial Automation, IoT Platform-Connect, Monitor, Notification
- AWS-IoT using MQTT, Dynamo DB, SNS (Simple Noti Service)

### Resource Person:

**Dr. B.N. Jagadeesh**

HoD, CSE,

Srinivasa Institute of Technology, Ph:9441958969

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
2<sup>nd</sup> June, 2018

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**

Chairman

### PATRONS

**Dr. P. Chiranjeevini Kumari**

Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### CONVENOR

**Mr. M.S.R.S.Prasad**

Associate Professor & HOD, CSE

### COORDINATORS

**Mrs. S. Jyothirmayee**

Assistant Professor, CSE

### ADDRESS FOR COMMUNICATION:

**Mrs. S. Jyothirmayee**

Coordinator

IDEAL Institute of Technology

Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 8885646864



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE  
ON  
INTERNET OF THINGS**

**4<sup>th</sup> to 9<sup>th</sup> June, 2018**

### **Venue:**

CSE Department

E-Class Room,

IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

The Internet of Things is the concept of everyday objects - from industrial machines to wearable devices - using built-in sensors to gather data and take action on that data across a network. This FDP is aimed at giving hands-on training to the faculty members and research scholars on various aspects of IoT. The FDP comprises a series of technical presentations and video demonstration of laboratory-based IoT projects. The projects will use the Arduino and other relevant IoT support technologies.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 12-06-2018

**Name of the programme:** "One week FDP on Internet of Things".

**Duration/Dates:** One week/ 04.06.2018 to 09.06.2018

**No.of participants:** 11

**Resource personal details:** Dr. B.N. Jagadeesh, HoD CSE, Srinivasa Institute of Technology, Ph. No.: 9441958969 Email: nagajagadeesh@gmail.com

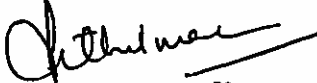
**Programme co-ordinator:** Mrs. S.Jyothirmayee, Assistant Professor, C.S.E. department.

### **Topics covered:**


- Introduction to IoT
- IoT Architecture
- Recent protocols in IoT (6LoWPAN, RPL, MQTT, Zigbee)
- M2M to IoT
- System design of an IoT system--- Power supply, Processor, Memory Sensor Interface
- Cloud-centric Internet of Things
- Data pre-processing and analysis
- Industrial IoT requirements

### **Outcome of the programme:**

1. Participants will practically be able to implement IoT
2. Participants will be able to understand real-time application(s) of IoT

  
Programme co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Topics:-

1. Evolution of Electronics & VLSI Design.
2. Very large scale integration – Monolithic and Hybrid IC.
3. VLSI Design isolation, Oxide isolation, Diode Isolation, Building blocks, Layout of Passive element.
4. Resistor geometry, Power dissipation, Power density, Tolerance.
5. Design of semiconductor diffused resistors, thin film resistor and Monolithic Capacitor. Fabrication of thick oxide MOSFET and CMOS.
6. Design of Silicon Integrated circuits, Concept of buried layer, Initial Artwork, Isolation Diffusion.
7. Analytical modelling of MOS Devices in VLSI, Deep sub-micron modelling, Advance MOSFET Design Structure.
8. CMOS Digital IC Design, Threshold Voltage of Digital IC, Inverter Design

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**  
Assoc. Prof., HoD, ECE

### COORDINATOR

**Mrs. P.V. Ratnam**  
Asst. Prof. ECE

### ADDRESS FOR COMMUNICATION:

**Mrs.P.V. RATNAM**  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 7337425589

pvratnam@gmail.com

### Note:

Last date for Registration is:  
16<sup>th</sup> June, 2018

Intimation to the participants:  
16<sup>th</sup> June, 2018



# IDEAL

## INSTITUTE OF TECHNOLOGY

VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi

& Affiliated to JNTUK

Kakinada



## ONE WEEK FDP

## ON

## RECENT TRENDS IN VLSI DESIGN

18<sup>th</sup> to 23<sup>rd</sup> June, 2018

Organized by

# Department of ECE

## About the College:-

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, (Late) Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students. Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature. In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

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The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:-

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes. Students are performing well in competitive exams like GATE, GRE. A good number of students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

## Objectives of the Program:-

In the last few years, VLSI Design Technologies have gained immense popularity in the research community. The aim of this FDP is to provide research aspects and solutions to the various problems related to the VLSI Design & Modelling.

1. To provide a comprehensive overview of the fundamental concepts as well as latest CAD TOOLS (Mentor Graphics & Silvaco).
2. Focus on emerging concepts of VLSI Design & Modelling.
3. To expand the in-depth knowledge of faculties, industry delegates.
4. To generate more open problems for research in related areas.

**Resource Person:**

**MR.G.NAGARAJU**

FOUNDER CEO, HENOTIC, HYDERABAD



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date :25.06.2018

## Program Report

**Name of the program:** One week faculty devoloment program (FDP) on Recent Trends In "VLSI Design".

**Duration/Dates:** One week / 18.06.2018 to 23.06.2018.

**No.of participants:** 7

**Resource personal details:** Mr.G.Nagaraju, FounderCEO, Henotic, Hyderabad,

Mail id: [gnagaraju@hotmail.com](mailto:gnagaraju@hotmail.com) Contact no:9701881308.

**Programme Co-ordinator:** Mrs.P.V.Ratnam ,Asst professor ,ECE dept.

### Objective of the program

- To learn the HDL based design approach.
- To learn digital CMOS logic design.
- To nurture with CMOS analog circuits designs.
- To realize importance of testability in logic circuit design.
- To overview SoC issues and understand PLD architectures with advanced features.

### Topics covered:

- CMOS analog circuit designs.
- Testability and applications.
- Digital CMOS logic design.
- PLD architectures.

### Outcome of the program:

- Model digital circuit with HDL, simulate, synthesis and prototype PLDs .
- Understand chip level issues and need of testability.
- Design analog and digital CMOS circuits for specified applications.

  
Program Co-ordinator

  
Principal

  
Head of the department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## REGISTRATION FORM

### One week FDP on "Emerging Trends in Concentrated Solar Technologies"

16<sup>th</sup> - 21<sup>st</sup> July, 2018

Name: .....

Designation: .....

Institution: .....

Address for Communication:

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

**Payment Details:** DD drawn in favour of ".....

....." payable at.....

#### FEE PARTICULARS

Accommodation Fee : Rs.300/-per day

**Note:** Last date for Registration is:  
14<sup>th</sup> July, 2018

#### ADDRESS FOR COMMUNICATION:

**Mr. B. Dharma Kumar**  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada  
Contact us: 8121371543

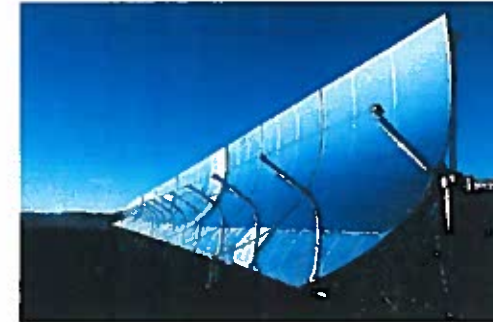
#### Resource Person:

**Dr.V.V.Kamesh**  
Mechanical department,  
Aditya Engineering College,  
Ph: 9948566975,  
Email: kameshvv@gmail.com

## One week FDP

on

### "Emerging Trends in Concentrated Solar Technologies"



16<sup>th</sup> - 21<sup>st</sup> July, 2018

*Convener*

**Dr.T. Srikanth**

Principal, IDEAL Institute of Technology

*Coordinator*

**Mr. B. Dharma kumar**  
Asst. Prof. ME  
Phone : 8121371543

*Venue*

**SEMINAR HALL, Dept. of ME**  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyut Nagar, Kakinada

*Organized by*

**Department of ME**



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi & Affiliated to JNTUK - Kakinada

## About College

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## About the Department:

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all India gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech innovation – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## Objectives:

- To get the knowledge of recent work going on in the world of solar energy.
- Enrichment of the project work that could be possible in the world of solar which can help to solve the future energy demand.
- To know the more ideas about concentrated solar energy generating devices and different challenges related to those.

## Topics:

- Concentrated Solar thermal System based Industrial Process Heating
- Modeling and Optimization of Solar Thermal Power Plant
- Linear Fresnel and Parabolic Through Demonstration Plant for CSP Technologies
- Solar Refrigeration
- Heliostat based Solar Thermal Power Plant

## Certificate

Certificates will be issued to the participants after the completion of the course



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date :23-07-2018

## REPORT

**Name of the program:** One week faculty development program on "Emerging Trends in Concentrated Solar Technologies"

**Duration/Dates:** One week/ 16.07.2018 to 21.07.2018

**No of participants:** 11

**Resource personal details:** Dr.V.V.Kamesh,  
Mechanical department,  
Aditya Engineering College,  
Ph: 9948566975,  
Email: kameshv@gmail.com

**Program Co-ordinator:** Mr. B. Dharma kumar , Asst.Professor,  
Department of Mechanical Engineering

**Objective of the program:**

- To get the knowledge of recent work going on in the world of solar energy.
- Enrichment of the project work that could be possible in the world of solar which can the help to solve the future energy demand.
- To know the more ideas about concentrated solar energy generating devices and different challenges related to those.

**Topics covered:**

- Concentrated Solar thermal System based Industrial Process Heating
- Modeling and Optimization of Solar Thermal Power Plant
- Linear Fresnel and Parabolic Through Demonstration Plant for CSP Technologies
- Solar Refrigeration
- Heliostat based Solar Thermal Power Plant

**Outcome of the program:**

- Ability to understand CST Technology, it's strategy, power generation using oil based system It's limitations
- Make use of solar energy for refrigeration and different systems like VAR, Desiccant cooling, porous material etc.

B. Dharma  
Program Co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA

  
Head of the Department

### Topics Covered:

- The waste to energy combustion process
- Thermal treatment on grate.
- World widespread, prevalent technologies.
- Plasma Arc Gasification.
- Pyrolysis.

### Outcome of the Programme:

- By generating electrical power or team waste to energy avoid carbon dioxide emission from fuel based electrical generation.
- The waste to energy combustion process effectively eliminate.
- Development of waste to energy technologies are observes.

### Program Comittee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Personal Details:

**Dr. GANGAVARAPU SUREKHA**  
Asst.Professor, KIET.  
Email id: nsurekha1@gmail.com  
Contact number: 9542868788

### Programme Coordinator:

**Mr. M.VenkataRao,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

.....

.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 17-08-2018.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"SUSTAINABILITY TECHNOLOGIES  
FOR WASTE TO ENERGY"**

**20<sup>th</sup> Aug 2018 to 25<sup>th</sup> Aug 2018**

**Organized by  
Department of CIVIL**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD, Pro and ArcGIS.

## Objective of the Programme:

- To identify the economic growth.
- To balance our economic environment and social needs allowing prosperity for now and future generations.
- Development of waste to energy technologies.
- To ensure universal access to affordable and modern energy services.
- To measure the environmental protection.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 27-08-2018

## Program Report

**Name of the program:** One week faculty development program on "Sustainability Technologies for Waste to Energy".

**Dates:** 20-08-2018 to 25-08-2018

**No. of participants:** 10

**Resource personal details:** Dr. GANGAVARAPU SUREKHA

Asst. Professor, KIET.

Email id: nsurekhal@gmail.com

Ph.No: 9542868788

**Programme co-ordinator:** Mr. M. VenkataRao, Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To identify the economic growth.
- To balance our economic environment and social needs allowing prosperity for now and future generations.
- Development of waste to energy technologies.
- To ensure universal access to affordable and modern energy services.
- To measure the environmental protection.

### **Topics covered:**

- The waste to energy combustion process
- Thermal treatment on grate.
- World widespread, prevalent technologies.
- Plasma Arc Gasification.
- Pyrolysis.

### **Outcome of the program:**

- By generating electrical power or team waste to energy avoids carbon dioxide emission from fuel based electrical generation.
- The waste to energy combustion process effectively eliminates.
- Development of waste to energy technologies are observes.
- Proper measure should be taken for protecting environment.

  
Program co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the department

## Objective of the program:

- Pulse Width Modulation techniques have wide applications for controlling IGBTs and MOSFETs.
- For multi level inverters and analysis of harmonic spectrum understanding of PWM Technique is needed.
- PWM applications

## Topics:-

- About Various random pulse width modulation techniques.
- Harmonic spectrum
- PWM converters with multi-level topology.
- Random PWM, Random SVPWM, Multi-level inverters and drives
- Random carrier frequency-PWM
- Applications of random PWM

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

Dr. P. Krishna Rao  
Chairman

### PATRON

Dr. P. Chiranjeevini Kumari  
Secretary & Correspondent

### PRINCIPAL

Dr. T. Srikanth

### COORDINATOR

Mr. G Ravi Kumar  
Asst. Prof. EEE

### Address for communication:

**Mr.G Ravi Kumar**

Coordinator

Assistant Professor, EEE, department

IDEAL Institute of Technology

Vidyut Nagar, KAKINADA-533033 (A.P.)

Ph.: 8520994961, ravigottumukkala216@gmail.com

### Speaker:

**Dr. S. Srikanth**

Professor, EEE department,

BVC odalarevu,

Email id:sambani.srikanth@gmail.com,

Contact number: 9491688842

### Note:

Last date for Registration is:

18<sup>th</sup> Oct, 2018

Intimation date: 19<sup>th</sup> Oct, 2018

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP on  
“Fuzzy based random pulse  
width modulation technique  
for performance improvement  
of induction motor”**

**22<sup>nd</sup> to 27<sup>th</sup> Oct, 2018**



### Venue:

Seminar Hall,

IDEAL Institute of Technology

Organized by

**EEE DEPARTMENT**

## About the College

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## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

Pulse-width modulation, or pulse-duration modulation, is a method of reducing the average power delivered by an electrical signal, by effectively chopping it up into discrete parts. The average value of voltage fed to the load is controlled by turning the switch between supply and load on and off at a fast rate. This paper proposes fuzzy based Random Pulse Width Modulation (RPWM) technique to trim down the overriding harmonic clusters in the output current's spectrum. Asynchronous Motor is fed by PWM inverter and current is controlled by Field Oriented Control (FOC) algorithm. When an inverter with constant switching frequency is used, it would result in narrow-band harmonics. These harmonic clusters can make acoustic noises and Electromagnetic Interference (EMI). In order to diminish the noises and EMI consequence of these harmonic clusters, adaptive fuzzy controller based random-switching PWM strategies have been introduced. The concept of RPWM technique is to spread the original narrow-band harmonic throughout a wide range of frequencies. Acoustic noises and EMI are reduced uniformly in output current's spectrum.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 30-10-2018

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Fuzzy Based Random Pulse Width Modulation Technique For Performance Improvement Of Induction Motor"

**Duration/Dates:** One week/ 22.10.18 to 27.10.2018

**No. of participants:** 10

**Resource personal details:** Dr.S.Srikanth,  
Professor,EEE Department ,BVC Engineering College,  
Email id:sambani.srikanth@gmail.com,  
Contact number: 9491688842

**Program co-ordinator:** Mr.G.Ravi Kumar, Assistant Professor, EEE Department.

### Objective of program:

- Pulse Width Modulation techniques have wide applications for controlling IGBTs and MOSFETs.
- For multi level inverters and analysis of harmonic spectrum understanding of PWM Technique is needed.
- PWM applications

### Topics covered:

- Various random pulse width modulation techniques.
- Harmonic spectrum
- PWM converters with multi-level topology.
- Random PWM, Random SVPWM, Multi-level inverters and drives
- Random carrier frequency-PWM
- Applications of random PWM

### Outcome of the program:

- Gained knowledge on various Pulse width modulation techniques
- Designing and usage of better PWM techniques for an induction motor.

*G. Ravi Kumar*  
Program co-ordinator

*[Signature]*  
Principal

*Ch. Sreenivas Kumar*  
Head of the department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the Programme:

Role of Atmosphere impact on daily life.

Future aspects of Atmosphere and Ocean prediction.

## Topics Covered:

Importance of Physics and Mathematics in study of predicting Atmospheric changes.

Applications of physics to retrieve the data from Atmospheric and Ocean monitoring satellites.

Future scope of Atmospheric and Ocean studies.

## Outcome of the Programme:

Exposure of Theoretical and Technical details about Atmospheric Science.

Motivate towards research careers.

## Program Comittee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 17-11-2018.

### Resource Person Details:

**Mr.V.Siva Prasad**, M.Tech, M.Sc,  
Andhra University,  
Ph no:7893517885,  
Email : sivavanum@gmail.com

### Programme Coordinator:

**Kum V.S.G.Iswarya**,  
Assistant Professor, H & BS Department.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"ROLE OF PHYSICS IN ATMOSPHERIC  
AND OCEAN STUDIES"**

**19<sup>th</sup> Nov 2018 to 24<sup>th</sup> Nov 2018**

**Organized by  
Department of H&BS**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

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In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and

possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

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The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## REPORT

Date: 27.11.2018

Name of the Programme: "One Week Faculty Development Program on Role of Physics in Atmospheric and Ocean Studies."

Duration/Dates: One week/ 19.11.2018 to 24.11.2018

No. of participants: 8

Resource personal details: Mr.V.Siva Prasad, M.Tech, M.Sc,

Andhra University,

Ph no: 7893517885,

Email : sivavanum@gmail.com

Programme Co-ordinator: Kum V.S.G.Iswarya, Assistant Professor,

H & BS Department.

### Objective of the programme:

- Role of Atmosphere impact on daily life.
- Future aspects of Atmosphere and Ocean prediction.

### Topics covered:

- Importance of Physics and Mathematics in study of predicting Atmospheric changes.
- Applications of physics to retrieve the data from Atmospheric and Ocean monitoring satellites.
- Future scope of Atmospheric and Ocean studies.

### Outcome of the programme:

- Exposure of Theoretical and Technical details about Atmospheric Science.
- Motivate towards research careers.

  
Programme Co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the Department

## Programme Content:-

- o Introduction to Android Development.
- o Working with Activities, Intents, Notifications and Media.
- o Android Layouts and Widgets.
- o Customize Views and Implement Event Receivers.
- o Working with Location and Sensors.
- o Using Input Controls and Settings.
- o Using SQLite Database.
- o Animation and Services.
- o Building and Testing Tools using Android.
- o Publishing to Google Play Store

### Resource Person:

**Dr. B.N. Jagadeesh**

HoD, CSE,

Srinivasa Institute of Technology, Ph:9441958969

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
20<sup>th</sup> Jan, 2019

## PROGRAM COMMITTEE:

### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

### **PATRONS**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### **PRINCIPAL**

**Dr. T. Srikanth**

### **CONVENOR**

**Mr. M.S.R.S.Prasad**  
Associate Professor & HOD, CSE

### **COORDINATORS**

**Mrs. S. Jyothirmayee**  
Assistant Professor, CSE

### **ADDRESS FOR COMMUNICATION:**

**Mrs. S. Jyothirmayee**  
Coordinator

**IDEAL Institute of Technology**

**Vidyut Nagar, Kakinada-533003 (A.P.)**

Contact us: 8885646864



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE**  
**ON**  
**ANDROID APP DEVELOPMENT**

21<sup>st</sup> to 28<sup>th</sup> Jan, 2019

### **Venue:**

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

In this Faculty Development Programme, you will learn to develop applications in the latest operating system with practical implementation and begin managing your own cool applications like a professional. Attendees will be provided with instructions to build and manage new cool applications. What's more you can even sell out these application and earn good money. A live speaker and instructor are available to answer questions during this two day Programme. Let a trained professional show you how to create and manage Android Applications.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 30-01-2019

**Name of the programme:** "One week FDP on Android App Development".

**Duration/Dates:** One week/ 21.01.2019 to 28.01.2019

**No.of participants:** 11

**Resource personal details:** Dr. B.N. Jagadeesh, HoD CSE, Srinivasa Institute of Technology, Ph. No.: 9441958969 Email: nagajagadeesh@gmail.com

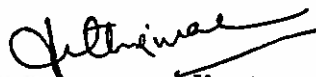
**Programme co-ordinator:** Mrs. S.Jyothirmayee, Assistant Professor, C.S.E. department.

### **Topics covered:**

- Introduction to Android Development.
- Working with Activities, Intents, Notifications and Media.
- Android Layouts and Widgets.
- Customise Views and Implement Event Receivers.
- Working with Location and Sensors.
- Using Input Controls and Settings.
- Using SQLite Database.
- Animation and Services.
- Building and Testing Tools using Android.
- Publishing to Google Play Store.

### **Outcome of the programme:**

1. Participants will practically be able to develop an android app
2. Participants will be able to publish android app to google play store

  
Programme co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## About Program:-

The methods can be grouped categorized as: image segmentation, image registration, image-based physiological modeling, Research in Medical Image Processing (MIP) is mainly driven by a technology oriented point of view. MIP research should always be able to give an answer to the question of what is the potential benefit of a solved MIP problem or a newly developed MIP-based system supporting a diagnostic or therapeutic process, in terms of outcome criteria like, e. g., Quality Adjusted Life Years (QALYs) for the patient or cost savings in health care.

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required:      Yes/No



## PROGRAM COMMITTEE:

**CHIEF PATRON**  
**Dr. P. Krishna Rao**  
Chairman

**PATRON**  
**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

**PRINCIPAL**  
**Dr. T. Srikanth**

**COORDINATOR**  
**Mr. P.S.J. Sreeram**  
*Asst. Prof. ECE*

**ADDRESS FOR COMMUNICATION:**  
**Mr.P.S.J.SREERAM**  
**Coordinator**

**IDEAL Institute of Technology**  
**Vidyut Nagar, Kakinada-533003 (A.P.)**  
**Contact us: 9441138058**  
**sreeram453@gmail.com**

### **Note:**

**Last date for Registration is:**  
**2<sup>nd</sup> Feb, 2019**

**Intimation to the participants:**  
**2<sup>nd</sup> Feb, 2019**



# IDEAL

**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK

Kakinada



**ONE WEEK FDP**  
**ON**

**RESEARCH PERCEPTIVE IN**  
**MEDICAL IMAGE PROCESSING**

**4<sup>th</sup> to 9<sup>th</sup> Feb, 2019**

**Organized by**

**Department of ECE**

## About the College:-

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:-

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes. Students are performing well in competitive exams like GATE, GRE. A good number of students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

## Objectives of the Program:-

Medical image processing is a multifaceted field at the intersection of computer science, electrical engineering, physics, mathematics and medicine. Medical Image processing has developed versatile computational and mathematical methods for solving problems pertaining to medical images and their use for biomedical research and clinical care. The prominent and important motive of Medical Image Processing is to extract clinically relevant information or knowledge from medical images. MIP focuses on the computational analysis of the images, not their acquisition.

**Resource Person:**

**Dr. M RADHIKAMANI**

**HOD, PRAGATHI ENGG COLLEGE**



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## PROGRAM REPORT

Date : 11-2-2019

**Name of the programme:** One week faculty development program (FDP) on "Research Perceptives In Medical Image Processing".

**Duration/Dates:** One week/ 04.02.2019 to 09.02.2019.

**No.of participants:** 10.

**Resource personal details:** Dr.M.Radhikamani, Professor, Pragati Engineering College  
Mail.id:radhika\_manireddy@yahoo.com,  
contact no:9440484800.

**Programme Co-ordinator:** Mr.P.S.J.Sreeram, Asst professor ,ECE dept.

### Objective of the programme

- Better image capture image capturing equipment (MRI, X ray ,ultrasound etc ),noise removal during capture,enhanced resolution or contrast,image compression,data bases etc.
- Better image processing ( diagnostics, object identification, object segmentation, search, etc).
- Better image display(3D viewing, volumetric display, generating 3D from 2D slices).

### Topics covered:

- 3d image data sets of human body.
- Segmentation tools.
- Enhancement the image to improve its quality.

### Outcome of the programme:

- Better image policy techniques.
- Better image diplay techniques .
- Various methods to remove noise and blur.

  
Programme Co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the department

### Topics Covered:

- Types of foundation
- Design of foundations
- To study about various foundations used for famous structures

### Outcome of the Programme:

- To know about foundation
- To know about how to design and foundations
- To know about type of foundations
- To know about structures various foundations used for famous structures

### Program Committee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. K.SUDHAKAR REDDY**  
Asst. Professor, G.pulla Reddy College Of  
Engineering, Kumool.  
Email id: sudhakarreddy947@gmail.com  
Contact number: 8008286402

### Programme Coordinator:

**Ms. B. Mounica,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 08-02-2019.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"FOUNDATIONS"**

**11<sup>th</sup> Feb 2019 to 16<sup>th</sup> Feb 2019**

**Organized by  
Department of CIVIL**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To learn about foundation
- To learn about type of foundation
- To learn about structures of foundation
- To learn about design and failures
- To learn about live examples



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 18-02-2019

## Program Report

**Name of the program:** One week faculty development program on "Foundations".

**Dates:** 11-02-2019 to 16-02-2019

**No.of participants:** 10

**Resource personal details:** Mr.K.SUDHAKAR REDDY

Asst.Professor, G.pulla Reddy College Of Engineering,  
Kurnool.

Email id: sudhakarreddy947@gmail.com

Contact number:8008286402

**Programme co-ordinator:** Ms.B.Mounica, Assistant Professor, Civil Engineering  
department.

### **Objective of the Program:**

- To learn about foundation
- To learn about type of foundation
- To learn about structures of foundation
- To learn about design and failures
- To learn about live examples

### **Topics Covered:**

- Types of foundation
- Design of foundations
- To study about various foundations used for famous structures

### **Outcomes of the Program:**

- To know about foundation
- To know about how to design and foundations
- To know about type of foundations
- To know about structures various foundations used for famous structures

*Mounica*  
Program co-ordinator

*T.S.R.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*eu*  
Head of the department

### Objective of the programme:

To get the knowledge about the Advances in the field of Research Method- ology.

To know the up coming requirements related to research of alternates in different field.

To study the varieties optimization of the sys- tem.

### Topics:-

- Importance - Expected Outcome of Research
- Selection of Research Topic
- Emerging Research Areas in Engineering & Technology Nano-Technology,
- Space Technology,
- Smart Materials,
- Sustainable Development
- Mathematical Modeling
- Availability of Research Fund
- Application of Statistical & Probability Methods in Research
- Use of Optimization Methods
- Applications of Numerical Methods

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:.....

Accomodation required: Yes/No

Accomodation Fee:300/- per day

### PROGRAM COMMITTEE:

#### CHIEF PATRON

Dr. P. Krishna Rao  
Chairman

#### PATRON

Dr. P. Chiranjeevini Kumari  
Secretary & Correspondent

#### PRINCIPAL

Dr. T. Srikanth

#### COORDINATOR

Mr.M. Dedeepya  
Asst. Prof. ME

#### Address for communication:

#### Mr. M.DEDEEPPYA

Coordinator  
Department of Mechanical Engineering,  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 7794961972  
Email: mdedeepya3022 @gmail.com

#### Speaker:

Dr.T. DharmaRaju  
Mechanical department,  
KITS engineering College

#### Note:

Last date for Registration is:  
9<sup>th</sup> March, 2019

Certificates will be issued to the participants  
after the completion of the course



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

## One week FDP on "Research methodology"

11<sup>th</sup> to 16<sup>th</sup> March, 2019



#### Venue:

Seminar Hall,  
Mechanical Dept.,  
IDEAL Institute of Technology

#### Organized by

**MECHANICAL DEPARTMENT**

## About the College

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The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech invation – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## About the Programme

Faculty got the good advance knowledge of about Research Methodology the expert explained the following topics.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 18-03-2019

## REPORT

**Name of the program:** One week faculty development program on "Research Methodology"

**Duration/Dates:** One week/ 11.03.2019 to 16.03.2019

**No of participants:** 11

**Resource personal details:** Dr.T. DharmaRaju,  
Mechanical department,  
KITS engineering College,  
Ph: 9440116517  
Email: raju\_thummala@yahoo.co.in

**Program Co-ordinator:** Mr. M. Dedeepya, Asst.Professor,  
Department of Mechanical Engineering

### **Objective of the program:**

- To get the knowledge about the Advances in the field of Research Methodology.
- To know the upcoming requirements related to research of alternates in different field.
- To study the varieties optimization of the system.

### **Topics covered:**

- Importance - expected outcome of research
- Selection of research topic
- Emerging research areas in engineering & technology nanotechnology,
- Space technology,
- Smart materials,
- Sustainable development
- Mathematical modeling

### **Outcome of the program:**

- Ability to understand research provides higher order learning opportunities involving analysis, evaluation and synthesis (creation of new knowledge).
- Make use of self-learning, problem-solving skills can prove crucial for surviving in today's challenging job market. Also, research is important for creation of knowledge and development of science, technology and overall welfare of society

  
Program Co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the Department

## Objective of the program:

- To enable the participants to learn and conceptualize renewable energy technologies and distribution generation systems.
- To enhance the learning capabilities of the participants in grid integration issues of above energy sources.
- To empower the participants with usage of MATLAB tools for grid integration and optimization

## Topics:-

- About Various renewable energy technologies.
- Various distribution generation sources.
- Placement and sizing of DGs.
- Eliminating the uncertainties involved in DG output.
- Understanding uncertainties on renewable energy

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:.....

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**

Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**

Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### COORDINATOR

**Mr. D. Madhu**

Asst. Prof. EEE

### *Address for communication:*

**Mr.D Madhu**

Coordinator

Assistant Professor, EEE, department

IDEAL Institute of Technology

Vidyut Nagar, KAKINADA-533033 (A.P.)

Ph.: 9705585827, madhu272@gmail.com

*Certificates will be issued to the participants  
after the completion of the course*

### **Note:**

Last date for Registration is:

**4<sup>th</sup> May, 2019**

Intimation to the Participants:

**5<sup>th</sup> May, 2019**



**IDEAL**  
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VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



One week FDP on  
**“Renewable Energy Technologies  
and Distributed Generation**

**6<sup>th</sup> to 11<sup>th</sup> May, 2019**

### **Venue:**

Seminar Hall,  
IDEAL Institute of Technology

**Organized by**

**EEE Department**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

The distributed generation resources are renewable energies and cogeneration (simultaneous production of heat and electricity). Renewable energy is energy from natural resources such as wind, sunlight, tides, waves, geothermal heat and biomass.

Distributed generation is the term used when electricity is generated from sources, often renewable energy sources, near the point of use instead of centralized generation sources from power plants. Renewable energy technologies" is an umbrella term that stands for energy production using a renewable energy source like solar, wind, water (hydro and tidal), biomass (biofuels and wastes), and geothermal heat.

**Speaker:**

**K.R.K.V. Prasad, M.Tech**

Associate professor,

Aditya College of Engineering and Technology,  
Surampalem, Email id: krkvprasad219@gmail.com,

Contact number: 8309600083



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 13-05-2019

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Renewable Energy Technologies and Distributed Generation."

**Duration/Dates:** One week/ 06.05.2019 to 11.05.2019

**No. of participants:** 10

**Resource personal details:** Mr. K.R.K.V.Prasad,  
Associate Professor,  
Aditya College Of Engineering & Technology, Surampalem,  
Email id: krkvprasad219@gmail.com,  
Contact number: 8309600083.

**Programme co-ordinator:** Mr.D.Madhu, Assistant Professor, EEE Department.

### Objective of program:

- To enable the participants to learn and conceptualize renewable energy technologies and distribution generation systems.
- To enhance the learning capabilities of the participants in grid integration issues of above energy sources.

### Topics covered:

- Various renewable energy technologies.
- Various distribution generation sources.
- Placement and sizing of DGs.
- Eliminating the uncertainties involved in DG output.
- Understanding uncertainties on renewable energy.

### Outcome of the program:

- Gained knowledge on various renewable energy technologies and distribution generation systems
- To encourage the participants to offer a course in renewable energy technologies and distribution generation systems.

*D. Madhu*  
Program co-ordinator

*T. S. J.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*Chandrasekhar*  
Head of the department

2017-18

## Programme Content:-

- ☛ To disseminate the knowledge of data sciences among faculty, researchers and academicians.
- ☛ To provide conceptual understanding of how data sciences can be used to innovate and improve business processes.
- ☛ To create awareness and interest in Python programming among students, and researchers.
- ☛ Train manpower in the field of data sciences to fulfill the growing necessity of various organizations.
- ☛ To focus on providing the researchers and students insight of overall components of data science

### Resource Person:

**Dr. M. Vamsi Krishna**

Principal,  
Chaitanya Institute of Science & Technology

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required:      Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
24<sup>th</sup> June, 2017

## PROGRAM COMMITTEE:

### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

### **PATRONS**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### **PRINCIPAL**

**Dr. T. Srikanth**

### **CONVENOR**

**Mr. M.S.R.S.Prasad**  
Associate Professor & HOD, CSE

### **COORDINATORS**

**Mrs. R.V.V.G.Lakshmi,**  
*Assistant Professor, CSE*

### **ADDRESS FOR COMMUNICATION:**

**Mrs. R.V.V.G LAKSHMI**

Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)

Contact us: 9441138055



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE**  
**ON**  
**DATA SCIENCE USING PYTHON**

**26<sup>th</sup> to 30<sup>th</sup> June, 2017**

### **Venue:**

CSE.Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Data science is a multi-disciplinary area that uses scientific methods, algorithms and systems to extract hidden knowledge and insights from data (Structured and Unstructured). It is the study of where information comes from, what it represents and how it can be transformed into a valuable resource in the creation of business and IT strategies. Mining large amounts of structured and unstructured data to identify patterns can help an organization in many ways. Data Science is confluence of mathematics, statistics and computer science disciplines, and incorporates techniques like machine learning, cluster analysis, data mining and visualization. As Python programming language is framed for Data Science applications it is essential to visualize Data science applications using Python to reap maximum benefits. Hence, it is important to bring awareness among researchers & academicians and train manpower on data science using Python programming to do innovative research, projects and to create knowledge base.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 03-07-2017

**Name of the programme:** "One week FDP on Data Science using Python".

**Duration/Dates:** One week/ 26.06.2017 to 01.07.2017

**No.of participants:** 12

**Resource personal details:** Dr. M. Vamsi krishna, Chaitanya Institute of Science & Technology, Ph. No.: 9010166698 Email: vkmangalampalli@gmail.com


**Programme co-ordinator:** Mrs. R.V.V.G. Lakshmi, Assistant Professor, C.S.E. department.

### **Topics covered:**

1. Introduction to Python
2. Machine learning using Python
3. Data Analytics using Python
4. Hands-on session on Python
5. Hands-on session on Machine Learning,
6. Data Analytics

### **Outcome of the programme:**

1. Participants will develop relevant programming abilities.
2. Participants will demonstrate proficiency with statistical analysis of data.
3. Participants will develop the ability to build and assess data-based models.
4. Participants will execute statistical analyses with professional statistical software.
5. Participants will demonstrate skill in various tools used for data science.
6. Participants will apply data science concepts and methods to solve problems in real world contexts and will communicate these solutions effectively.

  
**Programme co-ordinator**



Principal

**IDEAL INSTITUTE OF TECHNOLOGY**  
Vidyutnagar, KAKINADA.

  
**Head of the department**

*Contents of the FDP -*

- ✔ Design and simulation of digital communication systems
- ✔ Advances in error control strategies
- ✔ Design and simulation of Antennas
- ✔ Reconfigurable RF/Microwave filters
- ✔ Candidate technologies for 5G
- ✔ A physical layer perspective
- ✔ Design & simulation of non-orthogonal multiple access (NOMA)-based systems
- ✔ Radio-frequency integrated circuits (RFIC) for wireless communications
- ✔ Use of machine learning in communication systems –
- ✔ Wireless optical communication (WOC) –
- ✔ An overview – Role of WOC in next generation communication

**REGISTRATION FORM**

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required:      Yes/No

Accommodation Fee: 300/- per day

**PROGRAM COMMITTEE:**

**CHIEF PATRON**  
**Dr. P. Krishna Rao**  
Chairman

**PATRON**  
**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

**PRINCIPAL**  
**Dr. T. Srikanth**

**COORDINATOR**  
**Mr. Ch. V. Prakash**  
Asst. Prof. ECE

**ADDRESS FOR COMMUNICATION:**  
**Mr.CH.V. PRAKASH**

**Coordinator**

**IDEAL Institute of Technology**  
**Vidyut Nagar, Kakinada-533003 (A.P.)**  
**Contact us: 7416559955**  
**mail.id:cvenkataprakash@gmail.com**

**Note:**

**Last date for Registration is:**  
**8<sup>th</sup> July, 2017**

**Intimation to the participants:**  
**9<sup>th</sup> July, 2017**



**IDEAL**

**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK

**Kakinada**



**ONE WEEK FDP**  
**ON**

**RECENT TRENDS IN ADVANCED**  
**COMMUNICATIONS**

10<sup>th</sup> to 15<sup>th</sup> July, 2017

*Organized by*

**Department of ECE**

### *About the College*

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

### *About the Department*

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes. Students are performing well in competitive exams like GATE, GRE. A good number of students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

### *About the Program*

The demand for advances in communication systems has been exploding over the past few decades owing to the bloom of cutting edge novel digital technologies. Current communication technology has enabled the realization of the three key goals - data rates in excess of 10 Gbps, connectivity to support 1 million per square kilometre device density, and sub millisecond latencies that caters the need for future gigabit communication network. The FDP course will cover the recent trends in broad research fields namely RF front-end antenna, core concepts of wireless radio and optical communications with major emphasis in terms of design and simulation perspective.

**Resource Person:**

**Dr. M. RADHIKA MANI**

HOD, ECE, PRAGATHI ENGG COLLEGE



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## PROGRAM REPORT

Date : 17-7-2017

**Name of the programme:** One week faculty development program (FDP) on "Recent Trends in Advanced Communication".

**Duration/Dates:** One week/ 10.07.17 to 15.0.7.17.

**No.of participants:** 8.

**Resource personal details:** Dr.M. Radhikamani, Professor, Pragati Engineering College ,

Mail.id:[Radhika\\_manireddy@yahoo.com](mailto:Radhika_manireddy@yahoo.com) ,

Contact no:9440484800.

**Programme Co-ordinator:** Ch.V.Prakash ,Asst professor ,ECE dept.

### Objective of the programme

- To introduce the advanced topics in digital communications.
- Overview of fundamental techniques used in design ,performance analysis and implementation of current communication system .
- Overview of the communication system of the future.

### Topics covered:

- Review of digital modulation schemes.
- Carrier and symbol synchronization.
- Equalization.
- Multichannel and multi carrier systems.

### Outcome of the programme:

- Review the fundamental components of DIP identify and describe properties and limiting effects of wireless communication channels.
- Apply mathematical modelling to problems in wireless digital communications and explain how this is used to analyze and synthesize methods and algorithms in the field.
- Identify and describe standardized technologies in the field in particular 3G,4G, and different WLAN standards.

*Ch.V. Prakash*  
Programme Co-ordinator

*1-8f*  
Principal

*Alankar*  
Head of the department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the programme:

- To study the advance and new technique used in internal combustion engine.
- To aware of the new trends and technologies applied in petrol, diesel and hybrid engines.

## Topics:-

- 1.Hydrogen Internal Com- bustion Engines
- 2.Direct Fuel Injection Sys- tem for Petrol & Diesel Engines
- 3.Hybrid Engines
- 4.Economics & Perform- ance of Alternative fuel for I C Engines
- 5.Development of Low Emission I C Engines

**Resource Person:**  
**Dr.D.V.V.S. Prasad**

Professor,  
Department of Mechanical engineering,  
Aditya college of Engineering  
Email: myselfdvsprasad@gmail.com

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accomodation required: Yes/No

Accomodation Fee:300/- per day

## PROGRAM COMMITTEE:

**CHIEF PATRON**  
**Dr. P. Krishna Rao**  
Chairman

**PATRON**  
**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

**PRINCIPAL**  
**Dr. T. Srikanth**

**COORDINATOR**  
**Mr.M. Dedeepya**  
*Asst. Prof. ME*

## Address for communication:

**Mr. M.DEDEEPIYA**  
Coordinator  
Department of Mechanical Engineering,  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 7794961972  
Email: mdedeepya3022 @gmail.com

## Note:

Last date for Registration is:  
22<sup>nd</sup> July, 2017

Intimation to the participants:  
23<sup>rd</sup> July, 2017

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP**  
**on**  
**"Advances in internal  
combustion Engines"**

24<sup>th</sup> to 29<sup>th</sup> July, 2017



## Venue:

Seminar Hall,  
Mechanical Dept.,  
IDEAL Institute of Technology

**Organized by**

**MECHANICAL DEPARTMENT**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech inovation – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## About the Programme

The fossil fuels are limited and the amount of these type of conventional fuels are decreasing day by day. So, all around the world there is the trend comes of using these fuels with the better advance techniques and with the systems using renewable and non-renewable fuels, called Hybrid Fuels.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 01-08-2017

## REPORT

**Name of the program:** One week faculty development program on "Advances in Internal Combustion Engines".

**Duration/Dates:** One week/ 24.07.2017 to 29.07.2017

**No of participants:** 12

**Resource personal details:** Dr.D.V.V.S. Prasad,  
Professor, Department of Mechanical engineering,  
Aditya college of Engineering  
Ph : 9492508781  
Email: myselfdvsprasad@gmail.com

**Program Co-ordinator:** Mr. M.DEDEEPIYA, Asst .Professor,  
Department of Mechanical Engineering

### **Objective of the program:**

- To study the advance and new technique used in internal combustion engine.
- To aware of the new trends and technologies applied in petrol, diesel and hybrid engines.

### **Topics covered:**

- Hydrogen Internal Combustion Engines
- Direct Fuel Injection System for Petrol & Diesel Engines
- Hybrid Engines
- Economics & Performance of Alternative fuel for I C Engines
- Development of Low Emission I C Engines

### **Outcome of the Program:**

- The fossil fuels are limited and the amount of these type of conventional fuels are decreasing day by day.
- All around the world there is the trend comes of using these fuels with the better advance techniques and with the systems using renewable and non-renewable fuels, called Hybrid Fuels.

  
Program Co-ordinator

  
Principal

  
Head of the Department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Topics Covered:

- Basic concepts of Composite Materials.
- Properties and uses of Composite Materials.
- Components Used for Composite Materials.
- Concepts & techniques of Composite Materials.

### Outcome of the Programme:

- Demonstrate basic concepts of the Composite Materials.
- Apply basic concepts to develop construction (materials) techniques.
- Ability to use materials in the Construction.
- Understand geometric construction. Produce different materials and to know different Composite Materials.
- Understanding the Different Materials and Composite Materials for the Construction.

### Program Comittee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. R Kiran Kumar**  
Assistant Professor, Srinivasa Institute of  
Engineering & Technology, Cheyyuru.  
Email-id: revu.kiran143@gmail.com  
Ph No: 9989628093

### Programme Coordinator:

**Ms. R Gayatri Devi,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 04-08-2017.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"COMPOSITE MATERIALS  
AND STRUCTURES"**

**07<sup>th</sup> Aug 2017 to 12<sup>th</sup> Aug 2017**

**Organized by  
Department of CIVIL**

## About the College

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## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To Understand the manufacturing processes of reinforcement fibers and matrices for composites.
- To Understand the Concept of tailored design philosophy.
- To Extend a knowledge of applications and selection of different composites in consideration of the properties.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 14-08-2017

## Program Report

**Name of the program:** One week faculty development program on "Composite Materials and Structures".

**Duration:** 07-08-2017 to 12-08-2017.

**No. of participants:** 10

**Resource personal details:** Mr.R.KIRAN KUMAR

Asst. Professor, Srinivasa Institute of Technology, Cheyyuru.

Email: Id: reve.kiran143@gmail.com

Ph: no: 9989628093

**Program co-ordinator:** Miss. R. Gayatri Devi, Assistant Professor, Civil Engineering department.

### **Objective of the program:**


- To understand the manufacturing processes of reinforcement fibers and matrices for composites.
- To Understand the Concept of tailored design philosophy.
- To extend a knowledge of applications and selection of different composites in consideration of the properties.

### **Topics covered:**

- Basic concepts of Composite Materials.
- Properties and uses of Composite Materials.
- Components Used for Composite Materials.
- Concepts & techniques of Composite Materials.

### **Outcome of the program:**

- Demonstrate basic concepts of the Composite Materials.
- Apply basic concepts to develop construction (materials) techniques.
- Ability to use materials in the Construction.
- Understand geometric construction. Produce different materials and to know different Composite Materials.
- Understanding the Different Materials and Composite Materials for the Construction.

  
Program co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the department

## Objective of the program:

- Artificial intelligence foundations
- Optimization algorithms
- Data-driven tools to enable power grid resiliency
- Optimal planning of active distribution networks using multi-objective optimization algorithms.
- AI/ML aspects of smart grid from Generation to Utilization

## Topics:-

- The program is aimed to equip the attendees with basic understanding of AI trends
- The fields for current program are limited to power systems, signal processing and control system.
- This practice will expose the audience with practices of academia and industry including the enriched insights of the algorithms

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### COORDINATOR

**Mr. M. Jagadeesh**  
Asst. Prof. EEE

### *Address for communication:*

***Mr.M Jagadeesh***

Coordinator

Assistant Professor, EEE, department  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 9908038390, jagadishmailsu@gmail.com

*Certificates will be issued to the participants  
after the completion of the course*

### Note:

Last date for Registration is:

**19<sup>th</sup> Aug, 2017**

Intimation to the Participants:

**20<sup>th</sup> Aug, 2017**



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



*One week FDP on  
Emerging trends in Artificial Intelligence  
methods to power systems*

**21<sup>st</sup> to 26<sup>th</sup> August, 2017**

### Venue:

Seminar Hall,  
IDEAL Institute of Technology

**Organized by**

**EEE Department**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

Artificial intelligence, or AI, has the potential to cut energy waste, lower energy costs, and facilitate and accelerate the use of clean renewable energy sources in power grids worldwide. AI can also improve the planning, operation, and control of power systems. Today the main AI techniques found in power systems applications are those utilising the logic and knowledge representations of expert systems, fuzzy systems, artificial neural networks (ANN) and, more recently, evolutionary computing

### Resource Person:

**Mr. B Ramesh**

Associate professor, KITS, DIVILI

Email id: bojjaganiramesh@gmail.com

Contact number: 9912485625



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 28-08-2017

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Emerging Trends In Artificial Intelligence Methods To Power Systems"

**Duration/Dates:** One week/ 21.08.2017 to 26.08.2017

**No.of participants:** 10

**Resource personal details:** Mr. B.Ramesh,

Associate Professor, KITS,Divili,

Email id:bojjaganiramesh@gmail.com

Contact number:9912485625

**Program co-ordinator:** Mr.M.Jagadeesh,Assistant Professor, EEE Department.

### Objective of the program:

- Artificial intelligence foundations
- Optimization algorithms
- Data-driven tools to enable power grid resiliency
- Optimal planning of active distribution networks using multi-objective optimization algorithms.
- AI/ML aspects of smart grid from Generation to Utilization

### Topics covered:

- The program is aimed to equip the attendees with basic understanding of AI trends
- The fields for current program are limited to power systems, signal processing and control system.
- This practice will expose the audience with practices of academia and industry including the enriched insights of the algorithms

### Outcome of the program:

- To learn about the AI techniques in guidance & control for power systems
- To get knowledge in Data-driven tools to enable power grid resiliency
- This programme endeavours to provide conceptual clarity to popular techniques in optimization, machine learning.

*M. Jagadeesh*  
Program Co-ordinator

*Christod Kumar*  
Head of the department

*T. S. R.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the Programme:

To enhance the personality and human relations of an individual.

To encapsulate the social, personal, intellectual and emotional skills.

To help the learners for meaningful and successful living in today's globalized context.

## Topics Covered:

Decision making.

Self-Awareness and Empathy.

Coping with stress and emotions.

Effective Communication.

## Outcome of the Programme:

Possess a range of different Perspectives on what counts as an effective decision.

To help the listeners to become more Self confident.

Manage stress and emotions to think clearly, perform professional role productively.

Better management of work load and to resolve conflicts quickly.

## Program Comittee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 09-09-2017.

### Resource Person Details:

**Mr.V.Arun Kumar,**  
Assistant Professor, Lenora Engineering College,  
Ph no:9493832497,  
Email: Arunkumar@gmail.com

### Programme Coordinator:

**Mr.N. Rahul Khanna,**  
Assistant Professor, H&Bs Department



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"IMPARTING SOFT SKILLS FOR SUCCESS  
AND LIFE SKILLS FOR SURVIVAL  
AT THE WORK PLACE"**

**11<sup>th</sup> Sep 2017 to 16<sup>th</sup> Sep 2017**

**Organized by  
Department of H&BS**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students.

Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature.

In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is

exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

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The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

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The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

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The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the importance of English in their careers. The laboratories of Physics, Chemistry are well equipped so that each student can do the experiment individually.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## REPORT

Date: 19.09.2017

Name of the Programme: "One Week Faculty Development Program on Imparting Soft Skills for success and life skills for survival at the work place."

Duration/Dates: One week/ 11.09.2017 to 16.09.2017

No. of participants: 15

Resource personal details: Mr. V. Arun Kumar, Assistant Professor,  
Lenora Engineering College,  
Ph no: 9493832497,  
Email: Arunkumar@gmail.com

Programme Co-ordinator: Mr. N. Rahul Khanna, Assistant Professor,  
H&Bs Department

### Objective of the programme:

- To enhance the personality and human relations of an individual.
- To encapsulate the social, personal, intellectual and emotional skills.
- To help the learners for meaningful and successful living in today's globalized context.

### Topics covered:

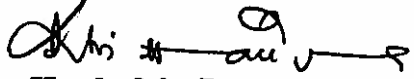
- Decision making.
- Self-Awareness and Empathy.
- Coping with stress and emotions.
- Effective Communication.

### Outcome of the programme:

- Possess a range of different Perspectives on what counts as an effective decision.
- To help the listeners to become more Self confident.
- Manage stress and emotions to think clearly, perform professional role productively.
- Better management of work load and to resolve conflicts quickly.

  
Programme Co-ordinator

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the Department

## Programme Content:-

- Introduction to Big Data & Hadoop
- Getting Started with Hadoop
- Hadoop deployment
- MapReduce
- PIG
- HIVE

### Resource Person:

**Prof. Y. Venkateswarulu**

Dean, CSE,  
ISTS Engineering College, Ph:9948388000

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

Mobile:.....

email:.....

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
18<sup>th</sup> June, 2016

### PROGRAM COMMITTEE:

#### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

#### **PATRONS**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### **PRINCIPAL**

**Dr. T. Srikanth**

#### **CONVENOR**

**Mr. M.S.R.S.Prasad**  
Associate Professor & HOD, CSE

#### **COORDINATORS**

**Mr. R.S.V.V. Prasad Rao**  
Assistant Professor, CSE

#### **ADDRESS FOR COMMUNICATION:**

**Mr. R.S.V.V. PRASAD RAO**  
Coordinator

**IDEAL Institute of Technology**  
Vidyut Nagar, Kakinada-533003 (A.P.)  
Contact us: 9494979929



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE**  
**ON**  
**HADOOP**

22<sup>nd</sup> to 29<sup>th</sup> Jan, 2018

#### **Venue:**

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Teaching-Learning is an important process in academic institutions. Transfer of knowledge takes place from the teacher to the students only when the teaching is effective. The young teachers need orientation and training in effective teaching. This one week FDP will be an excellent opportunity to listen to the experts in this field and also to discuss about the underlying intention in areas applications. It has become important for the educators and practicing Engineers, to continuously update their knowledge and skills in evidence-based practice strategies, small group facilitation, active lecturing, and the productive use of technology which also helps the researchers and faculty members to update their research skills.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 30-01-2018

**Name of the programme:** "One week FDP on HADOOP".

**Duration/Dates:** One week/ 22.01.2018 to 29.01.2018

**No. of participants:** 11

**Resource personal details:** Prof. Y. Venkateswarulu, Dean, Dept., of CSE, ISTS Engineering College, Ph. No.: 9948388000

**Programme co-ordinator:** Mr. R.S.V.V. Prasad Rao , Assistant Professor, C.S.E. Department.


### **Topics covered:**

- Understanding Hadoop
- The Hadoop Distributed File System (HDFS)
- Feeding Data into HDFS
- The MapReduce Framework
- Introduction to Pig
- Introduction to Hive
- Lab Hands on

### **Outcome of the programme:**

- Understand usage of hadoop and its implementation
- Implementing feeding data into HDFS
- Implementing Pig & Hive

  
Programme co-ordinator

  
Head of the department

  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## About MATLAB –

MATLAB has many advantages compared to conventional computer languages (e.g., C, FORTRAN) for solving technical problems. MATLAB is an interactive system whose basic data element is an array that does not require dimensioning. The software package has been commercially available since 1984 and is now considered as a standard tool at most universities and industries worldwide.

It has powerful built-in routines that enable a very wide variety of computations. It also has easy to use graphics commands that make the visualization of results immediately available. Specific applications are collected in packages referred to as toolbox. There are toolboxes for signal processing, symbolic computation, control theory, simulation, optimization, and several other fields of applied science and engineering.

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

### PROGRAM COMMITTEE:

#### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

#### **PATRON**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### **PRINCIPAL**

**Dr. T. Srikanth**

#### **COORDINATOR**

**Mr. V. Sivakrishnan**  
Asst. Prof. ECE

#### **ADDRESS FOR COMMUNICATION:**

**Mr. V. SIVAKRISHNAN**  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)  
Contact us: 9700364496  
Mail id: siva248921@gmail.com

#### **Note:**

**Last date for Registration is:**  
**3<sup>rd</sup> Feb, 2018**

**Intimation to the participants:**  
**3<sup>rd</sup> Feb, 2018**



# IDEAL

**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi

& Affiliated to JNTUK

Kakinada



**ONE WEEK FDP**

**ON**

**MATLAB TOOLS AND  
THEIR APPLICATIONS**

5<sup>th</sup> to 10<sup>th</sup> Feb, 2018

**Organized by**

## **Department of ECE**

## About the College

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## About the Department

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes. Students are performing well in competitive exams like GATE, GRE. A good number of students are being selected for the jobs in the campus interviews conducted by different multinational companies like IBM, TCS, CTS, Wipro, Accenture, Infosys and other prestigious companies every year.

## About the Program

The name MATLAB stands for MATrix LABoratory. MATLAB was written originally to provide easy access to matrix software developed by the LINPACK (linear system package) and EISPACK (Eigen system package) projects.

MATLAB is a high-performance language for technical computing. It integrates computation, visualization, and programming environment. Furthermore, MATLAB is a modern programming language environment: it has sophisticated data structures, contains built-in editing and debugging tools, and supports object-oriented programming. These factors make MATLAB an excellent tool for teaching and research.

**Resource Person:**

**MR. G. RAMAKRISHNA**

HOD, ECE, ADITYA ENGINEERING COLLEGE



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 13.02.2018

## PROGRAM REPORT

**Name of the program:** One week faculty development program(FDP) on "MATLAB Tools and their Applications".

**Duration/Dates:** One week/ 05.02.2018 to 10.02.2018.

**No.of participants:** 8.

**Resource personal details:** Mr.G.Ramakrishna ,HOD ,Department of ECE,Aditya College of Engineering ,mail.id: [hodece@acoee.edu.in](mailto:hodece@acoee.edu.in) Contact no:9701293003.

**Program Co-ordinator:** Mr V.SivaKrishnan ,Asst professor ,ECE dept.

### Objective of the program

- To impart the knowledge with MATLAB software .
- To provide a working introduction to the MATLAB technical computing environment.
- To introduce the use of high level program language Matlab.

### Topics covered:

- Basics of Matlab and Matlab compiler.
- Programming with simple examples.
- Discussion of toolboxes and applications.
- Simulink and hardware interfacing.

### Outcome of the program:

- Understand the basics of MATLAB.
- Case study.
- Break a complex task up into smaller ,simpler tasks.
- Tabulate results and analyze.

*V. Na*  
Program Co-ordinator

*Alkumar*  
Head of the department

*T. S. K.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the programme:

- CFD is a powerful tool for solving a wide variety of industrial problems.
- CFD is a branch of fluid mechanics that solve and analyze problems that involve fluid flows.
- This program includes the basic knowledge of CFD, theories behind it, how to use it in real problems.

## Topics:-

- Basic of CFD
- What is CFD?
- Application of CFD in Industry
- Process of CFD Geo-metric : Modeling, Meshing, Problem Definition, Solution, Post Processing
- Various case studies

### Resource Person:

**Dr. T. Jayanand**

Professor,

Department of Mechanical engineering,  
Godavari Institute of Engineering and Technology,  
Ph : 9440128113 Email: jktatipaka@gmail.com

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**

Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**

Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### COORDINATOR

**Mrs. V. Chandrika**

Asst. Prof:ME

### Address for communication:

**Mrs V.CHANDRIKA**

Coordinator

Department of Mechanical Engineering,  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 7729085999  
Email: chandrikav30@gmail.com

## Note:

Last date for Registration is:

17<sup>th</sup> Feb, 2018

Intimation to the participants:

18<sup>th</sup> July, 2018

Certificates will be issued to the participants  
after the completion of the course



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP on  
"Product Development using  
Computational Fluid Dynamics"**

**19.02.2018 to 24.02.2018**



## Venue:

Seminar Hall,  
Mechanical Dept.,  
IDEAL Institute of Technology

Organized by

**MECHANICAL DEPARTMENT**

## About the College

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## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech-innovation -- a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinator car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## About the Programme

- To get the knowledge on the basic theories related to fluid mechanics
- Ability to solve fluid problems using CFD
- To solve the problems on various bars and containing tools using CFD



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 26-02-2018

## REPORT

**Name of the program:** One week faculty development program on "Product Development using Computational Fluid Dynamics".

**Duration/Dates:** One week/ 19.02.2018 to 24.02.2018

**No of participants:** 10

**Resource personal details:** Dr. T. Jayanand,  
Professor, Department of Mechanical engineering,  
Godavari Institute of Engineering and Technology,  
Ph : 9440128113  
Email: jktatipaka@gmail.com

**Program Co-ordinator:** Mrs. V.CHANDRIKA, Asst.Professor,  
Department of Mechanical Engineering

**Objective of the program:**

- CFD is a powerful tool for solving a wide variety of industrial problems.
- CFD is a branch of fluid mechanics that solve and analyze problems that involve fluid flows.
- This program includes the basic knowledge of CFD, theories behind it, how to use it in real problems.

**Topics covered:**

- Basic of CFD
- What is CFD?
- Application of CFD in Industry
- Process of CFD Geo-metric : Modeling, Meshing, Problem Definition, Solution, Post Processing
- Various case studies

**Outcome of the program:**

- To get the knowledge on the basic theories related to fluid mechanics
- Ability to solve fluid problems using CFD
- To solve the problems on various bars and containing tools using CFD

*V. Chandrika*  
Program Co-ordinator

*T. Jayanand*  
Principal

*R.V.*  
Head of the Department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Topics Covered:

- General air-conditioning system and applications
- Cooling and refrigeration cycle.
- Indoor air quality and air circulation
- Heat transmission in building structure, solar radiation, energy calculation

## Outcome of the Programme:

- An ability to analyse psychometric processes and cycles of air conditioning system
- An ability to analyse to estimate the energy requirements of cooling and heat equipment for simple air conditioning applications
- Demonstrate an ability to apply principles of air conditioning to perform an energy analysis of simple air conditioning appliances

## Program Committee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. Srinivas Angadi**  
Institute of Aeronautical Engineering, Dundigal,  
Hyderabad.  
Email-id: sreeneea@gmail.com  
Ph No: 9701405241

### Programme Coordinator:

**Ms. K Sumavalli,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 16-03-2018.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"ADVANCES IN REFRIGERATION  
AND AIR-CONDITIONING"**

**19<sup>th</sup> Mar 2018 to 24<sup>th</sup> Mar 2018**

**Organized by  
Department of CIVIL**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

During early seventies Kakinada used to have only two colleges. Student community used to suffer a setback to upgrade their education even to the level of intermediate.

The ideal junior college had been started to cater to the needs of student community. In due course the jr .college flourished into Degree college and P.G courses like M.B.A, M.C.A, M.A, M.Sc and Engineering College.

Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students.

Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature.

In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values.

This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be a dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To learn the basic concepts and principles of refrigeration and air-conditioning
- Learn the fundamental analysis methodology of air conditioning and refrigeration
- Apply the course knowledge to do a design project for an HVAC System



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 26-03-2018

## Program Report

**Name of the program:** One week faculty development program on "Advances in Refrigeration and Air-conditioning".

**Dates:** 19-03-2018 to 24-03-2018.

**No. of participants:** 10

**Resource personal details:** Mr. SRINIVAS ANGADI

Institute of Aeronautical Engineering, Dundigal, Hyderabad.

Email id: sreenee.a@gmail.com

Ph. No: 9701405241

**Programme Co-ordinator:** Miss. K. Sumavalli Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To learn the basic concepts and principles of refrigeration and air-conditioning
- Learn the fundamental analysis methodology of air conditioning and refrigeration
- Apply the course knowledge to do a design project for an HVAC System

### **Topics covered:**

- General air-conditioning system and applications
- Cooling and refrigeration cycles
- Indoor air quality and air circulation
- Heat transmission in building structure, solar radiation, energy calculation

### **Outcome of the program:**

- An ability to analyse psychometric processes and cycles of air conditioning system
- An ability to analyse to estimate the energy requirements of cooling and heat equipment for simple air conditioning applications
- Demonstrate an ability to apply principles of air conditioning to perform an energy analysis of simple air conditioning appliances

*Sumavalli*  
Program Co-ordinator

*T.S.L.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*[Signature]*  
Head of the Department

## Objective of the programme:

- To train and update the faculties and research scholars for effective teaching & learning with the state of art information on the control system design.
- To enhance the understanding of the advanced control system design methods.
- To introduce some of the best control design practices followed in the industries.

## Topics:-

- About focuses on physical system modelling
- focuses on the systematic methods to design the advanced control system
- to meet desired requirements in both classical and modern settings
- control design practices followed in the industries

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

Dr. P. Krishna Rao  
Chairman

### PATRON

Dr. P. Chiranjeevini Kumari  
Secretary & Correspondent

### PRINCIPAL

Dr. T. Srikanth

### COORDINATOR

Mr. D. Madhu  
Asst. Prof. EEE

### Address for communication:

**Mr.D Madhu**

Coordinator

Assistant Professor, EEE, department

Ideal Institute of Technology

Vidyut Nagar, KAKINADA-533033 (A.P.)

Ph.: 9705585827

## Note:

Last date for Registration is:

21<sup>st</sup> April, 2018

Intimation date: 22<sup>nd</sup> April, 2018

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

## One week FDP on Teaching and Learning of Advanced Control Systems

23<sup>rd</sup> to 28<sup>th</sup> April, 2018



## Venue:

Seminar Hall,  
IDEAL Institute of Technology

Organized by

**EEE DEPARTMENT**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

In control theory, Advanced process control (APC) refers to a broad range of techniques and technologies implemented within industrial process control systems. Advanced process controls are usually deployed optionally and in addition to basic process controls. Advanced process control includes model-based software that is used to direct the process operation and is commonly referred to as multivariable predictive control (MPC) or model predictive control.

**Speaker:**

**K.R.K.V. Prasad**

Associate professor,

Aditya College of Engineering and Technology,

Surampalem,

Email id: krkvprasad219@gmail.com,

Contact number: 8309600083



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 30-04-2018

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Teaching And Learning of Advanced Control Systems."

**Duration/Dates:** One week/ 23.04.2018 to 28.04.2018

**No.of participants:** 10

**Resource personal details:** Mr. K.R.K.V.Prasad,  
Associate Professor,  
Aditya College Of Engineering & Technology, Surampalem,  
Email id:krkvprasad219@gmail.com,  
Contact number:8309600083.

**Program co-ordinator:** Mr.D.Madhu, Assistant Professor, EEE Department.

### Objective of program:

- To train and update the faculties and research scholars for effective teaching & learning with the state of art information on the control system design.
- To enhance the understanding of the advanced control system design methods.
- To introduce some of the best control design practices followed in the industries.

### Topics covered:

- Focuses on physical system modelling
- Focuses on the systematic methods to design the advanced control system
- To meet desired requirements in both classical and modern settings

### Outcome of the program:

- To understand different control design methods and identify the suitable one for the problem statement.
- Fundamentals of Control System
- To understand the Advanced PID controller uses in power systems

*D. Madhu*  
Program co-ordinator

*T.S.P.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*Chowdharaj Kumar*  
Head of the department

## Objective of the Programme:

To Explain the Important aspects of Research Methodology.

To gain knowledge about different data, tests, techniques and their analysis in social science research.

To get acquainted with how to report the results.

## Topics Covered:

Philosophy of social science research

Research ethics.

Language skills in scientific writings.

Parametric and non parametric tests of hypothesis

## Outcome of the Programme:

To explain the participants about how to prepare research proposal and various funding agency.

To acquaint the participants about various software packages and tools available for simulation and data analysis.

## Program Comittee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 05-05-2018.

### Resource Person Details:

**Dr.V.V.S.Ramachadram,**  
Professor,Dadi Institute of Science & Technology,  
Ph no: 9542295094,  
Email: vvsrch@gmail.com

### Programme Coordinator:

**Mrs.A.Kanakam,**  
Assistant Professor, H&Bs Department



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"RESEARCH METHODOLOGY"**

**7<sup>th</sup> May 2018 to 12<sup>th</sup> May 2018**

**Organized by  
Department of H&BS**

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Report

Date: 15.05.2018

**Name of the Programme:** "One Week Faculty Development Program on Research Methodology".

**Duration/Dates:** One week/ 07.05.2018 to 12.05.2018

**No.of participants:** 11

**Resource personal details:** Dr.V.V.S.Ramachadram, Professor,  
Dadi Institute of Science & Technology,  
Ph no: 9542295094,  
Email: vvsrch@gmail.com

**Programme Co-ordinator:** Mrs.A.Kanakam, Assistant Professor,  
H&BsDepartment.

### Objectives of the programme:

- To Explain the Important aspects of Research Methodology.
- To gain knowledge about different data, tests, techniques and their analysis in social science research.
- To get acquainted with how to report the results.

### Topics covered:

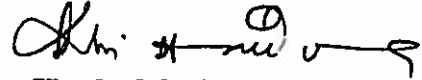
- Philosophy of social science research
- Research ethics.
- Language skills in scientific writings.
- Parametric and non parametric tests of hypothesis

### Outcome of the programme:

- To explain the participants about how to prepare research proposal and various funding agency.
- To acquaint the participants about various software packages and tools available for simulation and data analysis.

  
Programme Co-ordinator

  
Principal

  
Head of the Department

**2016-17**

## Objective of the programme:

- To predict composite properties based on micro mechanical theories
- Explain the perform stress and strain analysis in anisotropic and orthotropic materials having continuous fibre reinforcement

## Topics:-

- Introduction to composite applications
- Mechanics of fibre reinforced composites
- Classical lamination theories and failure theories
- Experimental characterization

## Resource Person:

**Dr. V.V.Kamesh**

Department of Mechanical Engineering  
Aditya Engineering College,  
Ph: 9948566975,  
Email: kameshvv@gmail.com

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### COORDINATOR

**Mr.M. Dedeepya**  
Asst. Prof. ME

Address for communication:

**Mr. M. Dedeepya**

Coordinator

Department of Mechanical Engineering,  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: 7794961972  
Email: mdedeepya3022@gmail.com

## Note:

Last date for Registration is:

16<sup>th</sup> July, 2016

Intimation to the participants:

17<sup>th</sup> July, 2016

Certificates will be issued to the participants  
after the completion of the course.



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP**  
**on**  
**“Mechanics of Composite**  
**Materials and Structures”**

18.07.2016 to 23.07.2016



## Venue:

Seminar Hall,  
Mechanical Dept.,  
IDEAL Institute of Technology

Organized by

**MECHANICAL DEPARTMENT**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech innovation – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## About the Programme

- Explain the mechanical behaviour of layered composites compared to isotropic materials
- Apply constitutive equation of composite materials and understand mechanical behaviour at micro and macro levels



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 25-07-2016

## REPORT

**Name of the program:** One week faculty development program on "Mechanics of Composite Materials and Structures".

**Duration/Dates:** One week/ 18.07.2016 to 23.07.2016

**No. of participants:** 10

**Resource personal details:** Dr.V.V.Kamesh,  
Mechanical department,  
Aditya Engineering College,  
Ph: 9948566975,  
Email: kameshvv@gmail.com

**Program Co-ordinator:** Mr.M.Dedeepya, Asst.Professor,  
Department of Mechanical Engineering.

**Objective of the program:**

- To predict composite properties based on micro mechanical theories
- Explain the perform stress and strain analysis in anisotropic and orthotropic materials having continuous fibre reinforcement

**Topics covered:**

- Introduction to composite applications
- Mechanics of fibre reinforced composites
- Classical lamination theories and failure theories
- Experimental characterization

**Outcome of the program:**

- Explain the mechanical behaviour of layered composites compared to isotropic materials
- Apply constitute equation of composite materials and understand mechanical behaviour at micro and macro levels

  
Program Co-ordinator



Principal

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

  
Head of the Department

**REGISTRATION FORM**  
**A ONE WEEK FACULTY DEVELOPMENT**  
**PROGRAMME ON DSP PROCESSORS**

4<sup>th</sup> - 9<sup>th</sup> July, 2016

Name: .....

Designation: .....

Institution: .....

Address for Communication: .....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

**Payment Details:** DD drawn in favour of “.....”

.....” payable at .....

**FEE PARTICULARS**

Accommodation Fee : Rs.300/-per day

**Note:** Last date to Registration is:

2<sup>nd</sup> July, 2016

Intimation to the participants:

3<sup>rd</sup> July, 2016

**ADDRESS FOR COMMUNICATION:**

**Mrs. D. Vijayalakshmi**  
Coordinator

IDEAL Institute of Technology

Vidyut Nagar, Kakinada

Contact us: 9491763902

luckyvicky.vin@gmail.com

**A ONE WEEK**  
**FACULTY DEVELOPMENT PROGRAMME**  
**ON**  
**DSP PROCESSORS**



4<sup>th</sup> - 9<sup>th</sup> July, 2016

*Convener*

**Dr.T. Srikanth**

Principal, IDEAL Institute of Technology

*Coordinator*

**Mrs. D VIJAYALAKSHMI**

Asst. Prof. ECE

Phone : 9491763902

luckyvicky.vin@gmail.com

*Venue*

**SEMINAR HALL,**

IDEAL INSTITUTE OF TECHNOLOGY

Vidyut Nagar, Kakinada

*Organized by*

**Department of ECE**



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**

VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi & Affiliated to JNTUK - Kakinada

## About College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years. The Education Society is the outcome of honored philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, (Late) Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education. During early seventies Kakinada used to have only two colleges. Student community used to suffer a setback to upgrade their education even to the level of intermediate.

The ideal junior college had been started to cater to the needs of student community. In due course the jr .college flourished into Degree college and P.G courses like M.B.A, M.C.A, M.A, M.Sc and Engineering College. Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the capabilities and Job potentials of the students. Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature. In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute. The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning. Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure.

## About the Department:

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes.

## About the Programme:

Signal processing is concerned with the representation, manipulation and transformation of signals and the information that they carry. It provides techniques for processing acquired time-series data for the purpose of efficient analysis and synthesis. Over the years, it has been developed to give great advancements in the areas of microchips, digital systems and computer hardware. The applications of signal processing are vast and interdisciplinary, ranging from engineering to economics and astronomy to biology. The research in many areas such as signal coding and de noising has paved the path for advancements. Recent decade has witnessed major revolution in communication and processing of digital media. As a consequence solutions to major problems in processing, transmission and reception have made signal processing an integral part of modern electronic systems. This program will provide an opportunity to highlight recent trends and developments to identify emerging and future areas of growth in these exciting fields. It will further give impetus to the researchers towards bringing out newer and efficient techniques.

## Objectives:

To provide recent trends and development in signal processing areas.  
To discuss state-of-the-art developments and emerging techniques in Communication Engineering.

Coverage Areas -Signal Representation for Digital Signal Processing

-Time and Frequency Domain Analysis and Applications

-Multi-resolution Analysis

-Signal Processing for Biomedical signals

-Speech Signal Processing

-Image Processing.

## Certificate

Certificates will be issued to the participants after the completion of the course

## Resource Person:

Mr. N.RAJESH BABU  
ASSOCIATE PROFESSOR,  
ADITYA ENGG COLLEGE



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 11-7-2016

## PROGRAM REPORT

Name of the program: "One week faculty development program (FDP) on DSP PROCESSORS".

Duration/Dates: One week/ 04.07.2016 to 09.07.2016.

No.of participants: 12

Resource personal details: Mr.N.RajeshBabu,  
Associate Professor, Adityacollege of Engineering & Technology ,,  
Mail id: [rajeshbabu641@gmail.com](mailto:rajeshbabu641@gmail.com)  
Ph no:7732047774 .

Program Co-ordinator: Mrs. D.Vijayalakshmi, Asst professor, ECE dept.

### Objective of the program

- To encourage participants in research & innovation in the field of DSP and promote entrepreneurship through training.
- To enable the participants to hone their skills and make them resource persons.
- To update the knowledge of participants through mutual interactions and knowledge sharing.
- To enhance the knowledge of the participants through mutual interactions and knowledge Sharing.

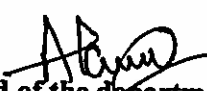
### Topics covered:

- Components of DSP processor.
- System design in DSP.
- Image data processing and analysis.
- Various algorithms along with their structures.

### Outcome of the program:

- The fdp provided inputs to the participants on DSP Processors which will enhance their ability to work in interdisciplinary areas. Concept of DSP processors and their applications.

  
Program Co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA

## Programme Content:-

1. Introduction to Data Analytics
2. Introduction to R Programming and Descriptive Analytics
3. Data Visualization
4. Exploratory Data Visualization
5. Measurement and Scaling, Questionnaire Development
6. Sampling and Hypothesis Testing
7. Introduction to SPSS, Cross Tabulation, Analysis of Variance (ANOVA), and Multivariate Analysis of Variance (MANOVA)

### Resource Person:

**Dr. M. Vamsi Krishna**

Principal,  
Chaitanya Institute of Science & Technology

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

### **Note:**

Last date to Registration:  
18<sup>th</sup> June, 2016

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

### PATRONS

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### CONVENOR

**Mr. M.S.R.S.Prasad**  
Associate Professor & HOD, CSE

### COORDINATORS

**Mrs. R.V.V.G.Lakshmi,**  
*Assistant Professor, CSE*

### ADDRESS FOR COMMUNICATION:

**Mrs. R.V.V.G LAKSHMI**  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)  
Contact us: 9441138055



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE  
ON  
RESEARCH METHODS & DATA ANALYTICS**

20<sup>th</sup> to 25<sup>th</sup> June, 2016

### Venue:

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be a dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Research Methods and Data Analytics have become an integral part of almost all areas of management, social sciences, humanities research. Advancement in computing technology has further raised the importance of data analytics and placed great demands on its applications to complex decision making problems. With the availability of various data analytical techniques and user-friendly analytical software such as SPSS Basic & SPSS Modeler, the ability to analyze large amount of data is not only desirable, but a necessity for academicians & researchers. Advanced data analytical techniques are usually very complex & confusing for beginners and intermediate researchers. The programme will address issues in research methods and data analytics like selection of appropriate analytical tools, right software, interpretation of outputs & effective report writing. The objective of this programme is to emphasize on broad range of techniques available in research methods and data analytics for academicians, practitioners & researchers from interdisciplinary domains.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

Date: 28-06-2016

**Name of the programme:** "One week FDP on Research Methods & data Analytics".

**Duration/Dates:** One week/ 20.06.2016 to 25.06.2016

**No.of participants:** 12

**Resource personal details:** Dr. M. Vamsi krishna, Chaitanya Institute of Science & Technology, Ph. No.: 9010166698 Email: vkmangalampalli@gmail.com

**Programme co-ordinator:** Mrs. R.V.V.G. Lakshmi, Assistant Professor, C.S.E. department.

### **Topics covered:**

1. Introduction to Data Analytics
2. Introduction to R Programming and Descriptive Analytics
3. Data Visualization
4. Exploratory Data Visualization
5. Measurement and Scaling, Questionnaire Development
6. Sampling and Hypothesis Testing
7. Introduction to SPSS, Cross Tabulation, Analysis of Variance (ANOVA), and Multivariate Analysis of Variance (MANOVA)
8. Spreadsheet Modeling
9. Introduction to SPSS Modeler and Neural Network Modelling
10. Predictive Analytics: Correlation and Linear Regression Modeling

### **Outcome of the programme:**

- Ability to understand recent advances of R Programming
- Ability to implement Hypothesis testing
- Ability to understand implementation of SPSS Modeler and Neural Network Modelling

Programme co-ordinator

Head of the department

Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA

### Topics Covered:

- Reinforced soil slopes and walls.
- Foundation practices in expansive soils.
- Bearing capacity and soil-reinforcement friction improvement.
- Designing foundations of earthquake resistant.

### Outcome of the Programme:

- An ability to design reinforced earth slopes and foundations.
- Demonstrate construction techniques for foundations in expansive soils.
- Obtain net and safe bearing capacities of shallow foundation.

### Program Committee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. R Kiran Kumar**  
Assistant Professor, Srinivasa Institute of  
Engineering & Technology, Cheyyuru.  
Email-id: revu.kiran143@gmail.com  
Ph No: 9989628093

### Programme Coordinator:

**Ms. R Gayatri Devi,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

.....

.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 29-07-2016.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"RECENT INNOVATIONS IN  
GEOTECHNICAL ENGINEERING"**

**01<sup>st</sup> Aug 2016 to 06<sup>th</sup> Aug 2016**

**Organized by  
Department of CIVIL**

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To establish parameters for foundation and sub structure design.
- To impart the knowledge on the physical properties of soil and rock underlying a site to design earthworks and foundations for proposed structures.
- To provide knowledge of the engineering seismology and engineering aspects of earthquakes.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 08-08-2016

## Program Report

**Name of the program:** One week faculty development program on "Recent Innovations in Geotechnical Engineering".

**Duration:** 01-08-2016 to 06-08-2016

**No. of participants:** 10

**Resource personal details:** Mr. R. KIRAN KUMAR

Asst. Professor, Srinivasa Institute of Engineering and  
Technology, Cheyyuru.

Email: Id: reve.kiran143@gmail.com

Ph: no: 9989628093

**Program co-ordinator:** Ms. R. Gayatri devi,

Assistant Professor, Civil Engineering department.

### Objective of the program:

- To establish parameters for foundation and substructure design.
- To impart the knowledge on the physical properties of soil and rock underlying a site to design earthworks and foundations for proposed structures.
- To provide knowledge of the engineering seismology and engineering aspects of earthquakes.

### Topics covered:


- Reinforced soil slopes and walls.
- Foundation practices in expansive soils.
- Bearing capacity and soil-reinforcement friction improvement.
- Designing foundations of earthquake resistant.

### Outcome of the program:

- An ability to design reinforced earth slopes and foundations.
- Demonstrate construction techniques for foundations in expansive soils.
- Obtain net and safe bearing capacities of shallow foundation.
- An ability to suggest suitable ground improvement techniques for expansive soils.

  
Programme co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objective of the Program:

- Recent trends and technologies for the smooth operation
- online monitoring, and control of power distribution/transmission
- Experts from different domains will detail ongoing research

## Topics:-

- Renewable energy resources integration in the microgrid system.
- Smart grid infrastructure in India: Recent trends and technology.
- Modern distribution system: Challenges and solutions.
- Emerging condition monitoring techniques in power engineering.

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:.....

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

### CHIEF PATRON

Dr. P. Krishna Rao  
Chairman

### PATRON

Dr. P. Chiranjeevini Kumari  
Secretary & Correspondent

### PRINCIPAL

Dr. T. Srikanth

### COORDINATOR

Mr. K Venkateswara Rao  
Asst. Prof. EEE

### Address for communication:

**Mr.K Venkateswara Rao**

Coordinator

Assistant Professor, EEE, department

IDEAL Institute of Technology

Vidyut Nagar, KAKINADA-533033 (A.P.)

Ph.: 9700800232, venkateswararao283@gmail.com

### Speaker:

**Dr.D. Ravi kishore**

Professor, EEE department,

GIET Rajamundry,

Contact number: 9490711464, dravikishore@gmail.com

### Note:

Last date for Registration is:

13<sup>th</sup> Aug, 2016

Intimation date: 15<sup>th</sup> Aug, 2016

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

*One week FDP  
on  
Emerging Techniques in  
Smart Power Systems*

**16<sup>th</sup> to 21<sup>st</sup> August, 2016**



### Venue:

Seminar Hall,  
IDEAL Institute of Technology

Organized by

**EEE DEPARTMENT**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

Depending upon the need, Many different technologies are used in smart grid communication like Programmable Logic Controller (PLC), wireless, cellular, SCADA (Supervisory Control and Data Acquisition), and BPL and Smart technology makes use of data to understand how improvements can be made. It tracks and analyses what's going on to deliver better results in the future. This entails that processes and systems become more efficient, and you as a person become more productive. Managing all of your home devices from one place. The convenience factor here is enormous. And advantages of smart power systems are like Flexibility for new devices and appliances., Maximizing home security, Remote control of home functions, Increased energy efficiency, Improved appliance functionality .



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 22-08-2016

## Program Report

**Name of the program:** One week faculty development program (FDP) on "Emerging Techniques In Smart Power Systems"

**Duration/Dates:** One week/ 16.08.2016 to 21.08.2016

**No.of participants:** 10

**Resource personal details:** Dr.D.Ravi Kishore,  
Professor ,EEE Department, GIET, Rajamundry,  
email id:dravikishore@gmail.com  
Contact number:9490711464

**Programme co-ordinator:** Mr.K.Venkateswara Rao, Assistant Professor, EEE Department.

### Objective of the program:

- Recent trends and technologies for the smooth operation
- online monitoring, and control of power distribution/ transmission
- Experts from different domains will detail ongoing research

### Topics covered:

- Renewable energy resources integration in the microgrid system.
- Smart grid infrastructure in India: Recent trends and technology.
- Modern distribution system: Challenges and solutions.
- Emerging condition monitoring techniques in power engineering.

### Outcome of the program:

- Recent electric cable technologies and pulsed electro acoustic technique.
- Green transformers and liquid dielectric.
- AI techniques and its applications in the modern power system.

*K. Venkateswara Rao*  
Program co-ordinator

*Ch. Venkateswara Rao*  
Head of the department

*[Signature]*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Objective of the Programme:

To enable the participants to enthuse students with fundamental and novel concepts hidden in various laboratory experiments and to design new experiments on their own.

To guide the participants to aspire the students to design new experiments and to come up with novel methodologies.

### Topics Covered:

Advanced topics in Chemical Kinetics.

Quantum Chemistry.

Thermodynamics.

### Outcome of the Programme:

Physical Chemistry is like solar energy that drives life of all the other forms of chemistry.

It is devised to provide a platform for interactions and exchange of ideas and novel trends with eminent academicians and scientists working in frontier areas of physical chemistry.

### Program Committee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....  
.....  
.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 03-09-2016.

#### Resource Person Details:

**Dr. L.N.Murthy,**  
Professor, Aditya College of Engineering,  
Suramplaem,  
Ph no: 9440068136,  
Email: murthy.Lank@yahoo.com

#### Programme Coordinator:

**Dr.K.Srihari Varma,**  
Professor, H & BS Department.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"TEACHING AND LEARNING OF ADVANCES  
IN PHYSICAL CHEMISTRY THROUGH  
HANDS-ON EXPERIENCE"**

**5<sup>th</sup> Sep 2016 to 10<sup>th</sup> Sep 2016**

**Organized by  
Department of H&BS**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

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Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature.

In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and

possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

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The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be dreamer.

The Institution is having more than 1,50,000 sq.ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## REPORT

Date: 12.09.2016

Name of the Programme: "One Week Faculty Development Program on Teaching and Learning of Advances in Physical Chemistry through Hands-on Experience."

Duration/Dates: One week/ 05.09.2016 to 10.09.2016

No. of participants: 10

Resource personal details: Dr. L.N. Murthy, Professor,

Aditya College of Engineering, Surampalem,

Ph no: 9440068136,

Email: murthy.Lank@yahoo.com

Programme Co-ordinator: Dr. K. Srihari Varma, Professor,

H & BS Department.

### Objective of the programme:

- To enable the participants to enthuse students with fundamental and novel concepts hidden in various laboratory experiments and to design new experiments on their own.
- To guide the participants to aspire the students to design new experiments and to come up with novel methodologies.

### Topics covered:

- Advanced topics in Chemical Kinetics.
- Quantum Chemistry.
- Thermodynamics.

### Outcome of the programme:

- Physical Chemistry is like solar energy that drives life of all the other forms of chemistry.
- It is devised to provide a platform for interactions and exchange of ideas and novel trends with eminent academicians and scientists working in frontier areas of physical chemistry.

  
Programme Co-ordinator

  
Head of the Department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA

## Programme Content:-

- Introduction of Artificial Intelligence & Machine Learning
- Introduction of Python and R programming
- Regression analysis
- Supervised models such as Naïve Bayes, Decision Tree, Support vector Machines etc
- Ensemble Models Boosting, Bagging, Stacking etc.
- Deep learning & Applications etc.
- Case studies of ML and DL applications
- Hands on Sessions using Python/R

### Resource Person:

**Dr. M. Radhika Mani**

HoD, CSE,

Pragati Engineering College, Ph:9440484800

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required:      Yes/No

Accommodation Fee:300/- per day

### **Note:**

Last date to Registration:  
20<sup>th</sup> Jan, 2017

## PROGRAM COMMITTEE:

### **CHIEF PATRON**

**Dr. P. Krishna Rao**  
Chairman

### **PATRONS**

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### **PRINCIPAL**

**Dr. T. Srikanth**

### **CONVENOR**

**Mr. M.S.R.S.Prasad**  
Associate Professor & HOD, CSE

### **COORDINATORS**

**Mrs. R.V.V.G.Lakshmi,**  
*Assistant Professor*

### **ADDRESS FOR COMMUNICATION:**

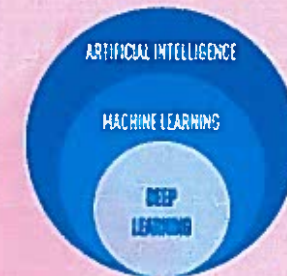
**Mrs. R.V.V.G LAKSHMI**  
Coordinator

**IDEAL Institute of Technology**  
Vidyut Nagar, Kakinada-533003 (A.P.)  
Contact us: 9441138055



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**ONE WEEK FDP COURSE**  
**ON**  
**ARTIFICIAL INTELLIGENCE – ML &**  
**DEEP LEARNING**

23<sup>rd</sup> to 30<sup>th</sup> Jan, 2017

### **Venue:**

CSE Department  
E-Class Room,  
IDEAL Institute of Technology

**Organized by**

**Department of CSE**

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

Computer Science Engineering Department was established in the year 2009 with an intake of 60. The lateral entry of the Department is 20% of the total intake. The Department maintains excellence in its infrastructural and academics.

We feel pride in organizing workshops and seminars to the students and also other colleagues for Update of knowledge and betterment of the society.

Since its inception in the department is offering four year B.Tech degree programs in Computer Science Engineering.

We have 24X7 internet facility with a band width of 20 Mbps to cater the need of the academics and non academic activities.

Our faculty encourages each and every student to pursue research and publish paper in reputed journals and think beyond the box for the technology and the society. We are proud to be member Ideal Group.

## About the Program

Artificial Intelligence(AI) also known as Machine Intelligence refers to intelligence demonstrated by machines, which is contradictory to intelligence displayed by humans known as natural intelligence. The Artificial Intelligence is a major step forward in how computer system adapts, evolves and learns. It has widespread application in almost every industry and is a big technological shift, similar in scale to past events such as the industrial revolution, the computer age, and the smart phone revolution. The FDP is aimed at imparting knowledge and training on the fundamentals of Artificial Intelligence, machine learning and its applications towards various domains. This program will be beneficial to research scholars and faculty members who intend to practice/begin research in the field of Artificial Intelligence & machine learning.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## Program Report

DATE: 31-01-2017

**Name of the programme:** "One week FDP on Artificial Intelligence Machine Learning & Deep Learning".

**Duration/Dates:** One week/ 23.01.17 to 30.01.17

**No.of participants:** 13

**Resource personal details:** Dr. M. Radhika Mani, HOD CSE, Pragati Engineering College,  
Ph. No.: 9440484800 Email: radhika\_manireddy@yahoo.com

**Programme co-ordinator:** Mrs. R.V.V.G. Lakshmi, Assistant Professor, C.S.E. department.

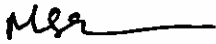
### Topics covered:


- Basics of AI, ML and DL, Supervised and unsupervised Algorithms.
- Working with data preprocessing and data visualization using python.
- Supervised learning like regression, Unsupervised Machine learning algorithms like SVM, KNN etc.
- Deep learning techniques like single and multi layer perceptron, LSTM.
- Introduction to AI, machine learning tools and techniques, Simple and multiple linear regression.
- Neural networks and multilayer perceptron, Back propagation CNN applications.
- Heuristic and metaheuristic techniques in AI.
- Advanced research applications in Machine and deep learning.

### Outcome of the programme:

- Ability to understand recent advances of AI, ML & DL
- Ability to understand Heuristic and metaheuristic techniques in AI
- Ability to understand implementation of AI, ML& DL using python

  
Programme co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

## Objectives of the Programme:

- Expected topics to be covered by during FDP:
- Fundamental concept of Digital Image Processing
- Morphological Image Processing, Compression
- Water marking
- Visual Cryptography
- Image Segmentation
- Image Mining
- Medical Image Processing
- Pattern Recognition

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
.....  
.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee: 300/- per day

**Note:** Last date for Registration is: 5<sup>th</sup> Feb, 2017

Intimation to the participants: 4<sup>th</sup> Feb, 2017

## PROGRAM COMMITTEE:

### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### PRINCIPAL

**Dr. T. Srikanth**

### COORDINATOR

**Mr. B.V. Kalyanram**  
Asst. Prof. ECE

### ADDRESS FOR COMMUNICATION:

**Mr. B.V. KALYANRAM**  
Coordinator

IDEAL Institute of Technology  
Vidyut Nagar, Kakinada-533003 (A.P.)  
Contact us: 9492953957  
bvkalyanram@gmail.com

### Resource Person:

**Dr. V. SAILAJA**

PROFESSOR,  
PRAGATHI ENGINEERING COLLEGE



# IDEAL

INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi

& Affiliated to JNTUK

**Kakinada**



## ONE WEEK FDP

## ON

## DIGITAL IMAGE PROCESSING

6<sup>th</sup> to 11<sup>th</sup> Feb, 2017

Organized by

# Department of ECE

## About the College

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A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The department of Electronics and Communication Engineering was established in the year 2009 and is running successfully with an intake of 60 students. The department is being run with dedicated staff members having an average experience of more than 10 Years to achieve the vision of the department and the institution. The department is well equipped with the state of the art infrastructure in all the laboratories.

Our students are performing well in academics and they are also encouraged to participate equally in extra-curricular and R&D activities. They are also participating in various technical events conducted by other prestigious colleges and universities and won prizes.

## About the Program

Digital Image Processing is an emerging research field where many revolutionary ideas and efficient algorithms have been developed over the past few decades in the World. The objective of this FDP is to light on the promising research areas such as Image Processing, Pattern Recognition, emerging trends and its diverse applications. It starts with fundamentals and different processing technologies both in frequency and spatial domains. The rapid increase in computing power and communication speed coupled with computer storage, have led to a new age of digital image applications such as digital watermarking, medical image processing, biometrics, content and annotation based image retrieval, visual cryptography and its applications. We provide hands-on training using MATLAB tool to demonstrate fundamental concepts of Digital Image Processing i.e. mathematical tools for image processing, Morphological Image Processing, Compression, frequency domain analysis, signal transformation, filter design, image acquisition, enhancement, smoothing, denoising, compression,



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date : 14-2-2017

## PROGRAM REPORT

**Name of the program:** One week faculty development program (FDP) on "DIGITAL IMAGE PROCESSING".

**Duration/Dates:** One week/ 06.02.2017 to 11.2.2017.

**No.of participants:** 10.

**Resource personal details:** Dr.V.Sailaja, Professor ,Pragati Engineering College,  
Mail.id: sailaja.v@pragati.ac.in, Contact no:9491444434.

**Programme Co-ordinator:** Mr.B.V.Kalyanram ,Asst professor ,ECE dept.

### Objective of the program


- Overview, the image fundamentals and mathematical transforms necessary for image processing.
- Overview the image enhancement techniques.
- Overview of the image restoration procedures.
- Overview of the image compression procedures.

### Topics covered:


- Image fundamentals.
- Image enhancement techniques.
- Image restoration and image compression.

### Outcome of the program:

- Review the fundamental components of DIP.
- Analyze images in the frequency domain using various transforms.
- Evaluate the techniques for image enhancement and image restoration.
- Interpret image compression standards.
- Interpret image segmentation standards.

  
Program Co-ordinator

  
Head of the department

  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

### Objective of the programme:

- To learn the basic concepts and principles of refrigeration and air-conditioning
- Learn the fundamental analysis methodology of air conditioning and refrigeration
- Apply the course knowledge to do a design project for an HVAC System

### Topics:-

- General air-conditioning system and applications
- Cooling and refrigeration cycles
- Indoor air quality and air circulation
- Heat transmission in building structure, solar radiation, energy calculation

### Resource Person:

**Dr. T. Jayanand**

Professor,

Department of Mechanical engineering,  
Godavari Institute of Engineering and Technology,  
Email: jktatipaka@gmail.com

### REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

### PROGRAM COMMITTEE:

#### CHIEF PATRON

**Dr. P. Krishna Rao**  
Chairman

#### PATRON

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### PRINCIPAL

**Dr. T. Srikanth**

#### COORDINATOR

**Mr.M.N. Raja**  
Asst. Prof. ME

### Address for communication:

**Mr. N. Raja**

Coordinator

Department of Mechanical Engineering,  
IDEAL Institute of Technology  
Vidyut Nagar, KAKINADA-533033 (A.P.)  
Ph.: .....  
Email: naiduraja29@gmail.com

### Note:

Last date for Registration is:

11<sup>th</sup> Feb, 2017

Intimation to the participants:

12<sup>th</sup> Feb, 2017

*Certificates will be issued to the participants  
after the completion of the course*



**IDEAL**  
INSTITUTE OF TECHNOLOGY  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA

**One week FDP**

on

**“Advances in Refrigeration  
and Air-conditioning”**

**13.02.2017 to 18.02.2017**



### Venue:

Seminar Hall,  
Mechanical Dept.,  
IDEAL Institute of Technology

**Organized by**

**MECHANICAL DEPARTMENT**

## About the College

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## About the Department

The Department of Mechanical Engineering has been functioning since 2009. The department has well qualified, experienced and dedicated faculty with p.g qualification in different streams and some of them are pursuing doctoral programmes. The department has good infrastructure with 10 different labs. All the labs are fully equipped to cater the present day technology. Computer lab is fully equipped with necessary systems and software's.

Every year our final year students are encouraged to write gate, cat, gre and tofel exams. Our students are used to get all india gate ranks every year. Students are encouraged to participate in state and national level paper contests. Every year mechanical engineering department is conducting mech invasion – a technical fest, with events like seminars, guest lectures, paper presentations, poster presentations, debate and quiz programs. Every semester minimum six guest lectures are being arranged for the benefit of the students. The department is having better industry-institute relationship. The department is also providing on campus technical training programmes to the students on different software packages like autocad, pro-e, ansys, catia etc. The department is also conducting workshops like automobiles & robotics. Every year for final year students we are guiding them in live projects like spinner car, kisan drone and self-balanced Segway. Our students are encouraged to participate in different sports & cultural activities.

## About the Programme

- An ability to analyse psychometric processes and cycles of air conditioning system
- An ability to analyse to estimate the energy requirements of cooling and heat equipment for simple air conditioning applications
- Demonstrate an ability to apply principles of air conditioning to perform an energy analysis of simple air conditioning appliances



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 20-02-2017

## Program Report

**Name of the program:** One week faculty development program on "Advances in Refrigeration and Air-conditioning".

**Duration/Dates:** One week/ 13.02.2017 to 18.02.2017.

**No. of participants:** 10

**Resource personal details:** Dr. T. Jayanand,

Professor, Department of Mechanical engineering,

Godavari Institute of Engineering and Technology,

Ph no : 9440128113

Email: jktatipaka@gmail.com

**Program Co-ordinator:** Mr. N. Raja, Asst. Professor,

Department of Mechanical Engineering

### **Objective of the program:**

- To learn the basic concepts and principles of refrigeration and air-conditioning
- Learn the fundamental analysis methodology of air conditioning and refrigeration
- Apply the course knowledge to do a design project for an HVAC System

### **Topics covered:**

- General air-conditioning system and applications
- Cooling and refrigeration cycles
- Indoor air quality and air circulation
- Heat transmission in building structure, solar radiation, energy calculation

### **Outcome of the program:**

- An ability to analyse psychometric processes and cycles of air conditioning system
- An ability to analyse to estimate the energy requirements of cooling and heat equipment for simple air conditioning applications
- Demonstrate an ability to apply principles of air conditioning to perform an energy analysis of simple air conditioning appliances

*N. Raja*  
Program Co-ordinator

*[Signature]*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*[Signature]*  
Head of the Department

### Topics Covered:

- Basic concepts of AutoCAD tools.
- Intermediate concepts & techniques of AutoCAD tools
- Concepts & techniques of 2D Modelling using AutoCAD
- Concepts & techniques of 3D Modelling using AutoCAD

### Outcome of the Programme:

- Demonstrate basic concepts of the AutoCAD software.
- Apply basic concepts to develop construction (drawing) techniques.
- Ability to manipulate drawings through editing and plotting techniques.
- Understand geometric construction. Produce template drawings and Produce 2D Orthographic Projections
- Understand and demonstrate dimensioning concepts and techniques and Understand Section and Auxiliary Views.

### Program Comittee

#### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

#### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

#### Principal:

**Dr. T. Srikanth**

### Resource Person Details:

**Mr. Srinivas Angadi**  
Institute of Aeronautical Engineering, Dundigal,  
Hyderabad.  
Email-id: sreeneea@gmail.com  
Ph No: 9701405241

### Programme Coordinator:

**Ms. K Sumavalli,**  
Assistant Professor, Civil Engineering Department

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 17-02-2017.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"COMPUTER AIDED DRAFTING  
AND DESIGN (AUTOCAD)  
IN CIVIL ENGINEERING"**

**20<sup>th</sup> Feb 2017 to 25<sup>th</sup> Feb 2017**

**Organized by  
Department of CIVIL**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions has been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

During early seventies Kakinada used to have only two colleges. Student community used to suffer a setback to upgrade their education even to the level of intermediate.

The ideal junior college had been started to cater to the needs of student community. In due course the jr .college flourished into Degree college and P.G courses like M.B.A, M.C.A, M.A, M.Sc and Engineering College.

Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students.

Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature.

In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values.

This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

Our faculty colleagues thrive on a diet of commitment towards excellence. We believe that learning shall be a joy and teaching a pleasure

The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay. Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

The institute is always abuzz with new ideas and is an exciting place to be, if you happen to be dreamer.

The Institution is having more than 1,50,000 sq. ft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Civil Engineering department was established in the year 2009 with an intake of 60 Seats. The lateral entry of students into the department is approximately 20% of the total intake every year. Department comprises of well qualified and experienced faculty and are from the Alumni of JNTU Kakinada, JNTU Hyderabad and Andhra University. The faculty continuously endeavors for Outcome Based Education (OBE) by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality research and many have International publications to their credit. Department has well Equipped Laboratories in the core areas like Structural Engineering, Geotechnical Engineering, Water Resources, Transportation Engineering, Surveying, Environmental Engineering and Geology. The Department has a special unit dedicated to Civil Engineering and Design and Drafting Software's which include AutoCAD (2D & 3D), STADD. Pro and ArcGIS.

## Objective of the Programme:

- To understand the Software of AutoCAD and different features.
- To study the basic CAD commands, tools, multi-view drawing and dimensioning techniques.
- To Become familiar with Solid Modelling concepts and techniques



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

Date: 27-02-2017

## Program Report

**Name of the program:** One week faculty development program on "Computer Aided Drafting and Design (AutoCAD)" in Civil Engineering .

**Duration:** 20-02-2017 to 25-02-2017.

**No. of participants:** 10

**Resource personal details:** Mr. SRINIVAS ANGADI

Institute of Aeronautical Engineering, Dundigal, Hyderabad.

Email id: sreenee.a@gmail.com

Contact number: 9701405241

**Programme co-ordinator:** Ms. K. Sumavalli Assistant Professor, Civil Engineering department.

### **Objective of the program:**

- To under the Software of AutoCAD and different features.
- To study the basic CAD commands, tools, multi-view drawing and dimensioning techniques.
- To Become familiar with Solid Modelling concepts and techniques

### **Topics covered:**

- Basic concepts of AutoCAD tools.
- Intermediate concepts & techniques of AutoCAD tools
- Concepts & techniques of 2D Modelling using AutoCAD
- Concepts & techniques of 3D Modelling using AutoCAD

### **Outcome of the program:**

- Demonstrate basic concepts of the AutoCAD software.
- Apply basic concepts to develop construction (drawing) techniques.
- Ability to manipulate drawings through editing and plotting techniques.
- Understand geometric construction. Produce template drawings and Produce 2D Orthographic Projections
- Understand and demonstrate dimensioning concepts and techniques and Understand Section and Auxiliary Views.
- Become familiar with the use of Blocks, Design Centre, and Tool Palettes.
- Become familiar with Solid Modelling concepts and techniques.

*Sumavalli*

Program co-ordinator

*[Signature]*  
Principal

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*[Signature]*  
Head of the department

## Objective of the program:

- Introduce the subjects in a different perspective and to impart better knowledge and understanding of the power electronics devices.
- Understand the concepts through illustrations and applications in recent trends in power electronics
- To train the participants with the teaching methodology.

## Topics:-

- Power Converters and Rectifiers
- DC-DC converters
- Inverters
- Simulation of Power Electronic Converters
- Power System Monitoring and Control
- Power System Stability FACTS

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:

.....

.....

Mobile:.....

email:

Accommodation required: Yes/No

Accommodation Fee:300/- per day

## PROGRAM COMMITTEE:

**CHIEF PATRON**  
**Dr. P. Krishna Rao**  
Chairman

**PATRON**  
**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

**PRINCIPAL**  
**Dr. T. Srikanth**

**COORDINATOR**  
**Mr. G. Ravi Kumar**  
Asst. Prof. EEE

### *Address for communication:*

**Mr. G. Ravi kumar**

Coordinator

Assistant Professor, EEE, department

IDEAL Institute of Technology

Vidyut Nagar, KAKINADA-533033 (A.P.)

Ph.: 8520994961, ravigottumukkala216@gmail.com

*Certificates will be issued to the participants  
after the completion of the course*

### **Note:**

Last date for Registration is:

**4<sup>th</sup> March, 2017**

Intimation to the Participants:

**5<sup>th</sup> March, 2017**



**IDEAL**  
**INSTITUTE OF TECHNOLOGY**  
VIDYUT NAGAR, KAKINADA

Approved by AICTE - New Delhi  
& Affiliated to JNTUK, KAKINADA



**One week FDP**

**ON**

**Recent trends in power electronics  
and power systems**

**6<sup>th</sup> to 11<sup>th</sup> March, 2017**

**Venue:**

Seminar Hall,

IDEAL Institute of Technology

**Organized by**

**EEE Department**

## About the College

Ideal Institute of Technology was established under the aegis of Governing Body of Ideal college of Arts and Sciences during academic year 2009-2010. The educational Society of Ideal Institutions ahas been rendering yeoman service in the glorious field of education for the past 40 years.

The Education Society is the outcome of honoured philanthropists, educationists, intellectuals and elite of Kakinada such as (Late) P. V. N. Raju, (Late) Dr. N. S. R. Sastry, Dr. P. Chiranjeevini Kumari. Ideal institutions have started from school and blossomed into group of colleges. Ideal Institutions are of its own kind in rendering service to society and value-based education.

During early seventies Kakinada used to have only two colleges. Student community used to suffer a set-back to upgrade their education even to the level of intermediate. The ideal junior college had been started to cater to the needs of student community. In due course the jr . college flourished into Degree college and P.G courses like M.B.A, M.C.A, M.A, M.Sc and Engineering College.

Now the college is run under the expertise of Dr. P Krishna Rao, Chairman of Pragati Engineering College to improve the Capabilities and Job potentials of the students. Ideal institute of technology is one and only institute which is located in the midst of Kakinada amid mango groves in the lap of Nature. In this present era of knowledge and technology driven economy, globalization and liberalization, every employer and the industry house seeks employees to be productive and possess skills, competence and values. This is exactly what we at Ideal Institute endeavor to provide to our students. The spirit of innovation, modernization and student-centric teaching-learning are the corner stones of academics at Ideal Institute.

The faculty members strive to promote a sense of enquiry and questioning among their students. The culture at the institute is one of openness, mutual trust and faith most conducive to unconditional commitment to learning.

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The Institute is committed to generate, disseminate and preserve knowledge to work with others to bring this knowledge to face the global challenges. We are committed to provide our students an education that combines the rigours of academics and the grind of application along with the excitement of discovery.

We seek to develop in each member of the Ideal community the ability and passion to work wisely, creatively and effectively for the betterment of mankind.

The Institute extends moral and placement support too. Value based education, mentoring and character building, job oriented short term courses, guest speakers from the industry, visits to industry houses, Entrepreneurship Development Programmes are our main stay Students live in a unique environment that promotes culture, sports, society contributions, and above all the self-governance.

The institute is always abuzz with new ideas and is an exciting place to be, if you a happen to be dreamer.

The Institution is having more than 1,50,000 sft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department

The Electrical & Electronics Engineering department of this college is started in the academic year 2010-2011 with an annual intake of 60 with the objective of giving best "Technical Education" to aspiring Power Engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed Citizens of the Country. The department has excellent faculty having years of experience in academics & Industry. It has state of art laboratories for the students to explore their knowledge. State of art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

## About the Program

- Some examples of uses for power electronic systems are DC/DC converters used in many mobile devices, such as cell phones or PDAs, and AC/DC converters in computers and televisions. Large scale power electronics are used to control hundreds of megawatt of power flow across our nation. The present technologies technologies are Robotics. The smart grid. Prefabricated products. Energy-efficient lighting technologies. ...Client relationship and project management software. ...The internet of things (IoT) ... Drones.

### Speaker:

**Dr.S.Srikanth**

Professor in EEE department,

BVC odalarevu,

Email id:sambani.srikanth@gmail.com,

Contact number: 9491688842



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

DATE: 14-03-2017

## Program Report

**Name of the programme:** One week faculty development program (FDP) on "Recent Trends In Power Electronics and Power Systems".

**Duration/Dates:** One week/ 06.03.2017 to 11.03.2017

**No.of participants:** 10

**Resource personal details:** Dr.S.Srikanth,  
Professor,EEE Department ,BVC Engineering College,  
Email id: [sambani.srikanth@gmail.com](mailto:sambani.srikanth@gmail.com)  
Contact number: 9491688842

**Program co-ordinator:** Mr.G.Ravi Kumar,Assistant Professor, EEE Department.

### Objective of the program:

- Introduce the subjects in a different perspective and to impart better knowledge and understanding of the power electronics devices.
- Understand the concepts through illustrations and applications in recent trends in power electronics
- To train the participants with the teaching methodology.

### Topics covered:

- Power Converters and Rectifiers
- DC-DC converters
- Inverters
- Simulation of Power Electronic Converters
- Power System Monitoring and Control
- Power System Stability FACTS

### Outcome of the program:

- Ability to understand recent advances of Automatic Generation Control of Power Systems
- Ability to understand Modeling & Control of Electrical Systems
- Ability to understand and implementation of power electronics devices in HVDC Transmission System

*G. Ravi Kumar*  
Program co-ordinator

*T.S.R.*  
Principal  
IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.

*Ch. Venkatesh Kumar*  
Head of the department

## Objective of the Programme:

The Programme focuses on recent developments in clean technology to mitigate environmental pollution.

The Programme will provide a platform to facilitate the participants to undertake multidisciplinary research in thrust areas of environmental science and technology.

## Topics Covered:

Waste Management Techniques.

Sustainable environment management in industries.

Online monitoring of environmental parameters.

## Outcome of the Programme:

It is the responsibility of everyone to protect our environment.

Let us fulfill our responsibilities in environmental protection, creating a quality ecological environment and sharing wonderful green living together.

## Program Committee

### Chief Patrons:

**Dr. P. Krishna Rao**  
Chairman

### Patrons:

**Dr. P. Chiranjeevini Kumari**  
Secretary & Correspondent

### Principal:

**Dr. T. Srikanth**

## REGISTRATION FORM

Name:.....

Designation:.....

Institution:.....

Address for Communication:  
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.....  
.....

Mobile:.....

E-Mail:.....

Accommodation Required: YES / NO.

Accommodation Fee: 300/- per day.

Note: Last Date for Registration: 11-03-2017.

### Resource Person Details:

**Dr.N.Aruna Kumari**, Assistant Principal,  
Dr.B.R.Ambedkar University,  
Srikakulam, Ph no:8500472665,  
Email: drsidvi@gmail.com

### Programme Coordinator:

**Dr.CH.V.V.Satyanarayana Murthy**,  
Professor, H & BS Department.



**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON  
"ABATEMENT OF ENVIRONMENTAL  
POLLUTION THROUGH CLEAN TECHNOLOGY"**

**13<sup>th</sup> Mar 2017 to 18<sup>th</sup> Mar 2017**

**Organized by  
Department of H&BS**

## About the College

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The Institution is having more than 1,50,000 sft., built up area with well established laboratories in each department to cater to the needs of the students. Besides the Institution is providing transport facility to the needy and also have good sports and canteen facilities.

A team of well qualified and experienced faculty members mould the young students into future Engineers of world.

## About the Department:

Humanities & Basic Sciences is one of the most indispensable departments of Ideal Institute of Technology. Department imparts excellent quality education in the area of Basic Science (Mathematics, Physics, Chemistry, Material Science, Environmental Science etc.) and Humanities (English, Communication skills) for the future technocrats of all streams and enhances innovative thinking among the students. The Department has well equipped laboratories for Physics, Chemistry and Communication skills. The Department promotes study and research in modern emerging trends and also encourage the academic interaction of the faculty and students. Most of the faculty members of the Department are engaged in research and in publishing their research work in reputed national/international journals regularly. The institution strives to provide a conducive atmosphere for self-improvement. The department emphasizes on discipline and instills spiritual, moral, and ethical values in the students, simultaneously helping them to overcome stress if any or to ease out in developing their mental and physical faculties by participating in various cultural and co-curricular activities held throughout the year. The Department regularly organizes refreshing courses for the staff through a series of lectures on various topics of interest. The Department of Humanities & Basic Sciences nurtures careers of excellence and leadership in technology for academically talented students. The Department is dedicated to encourage understanding of knowledge and its relevance in the technological sphere. As the Global situation warrants communication skills in English, the Department concentrates on providing best methods to make young students to develop keen interest in understanding the importance of English in their careers. The laboratories of Physics, Chemistry are well equipped so that each student can do the experiment individually.



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)  
Vidyut Nagar, KAKINADA - 533 003. (A.P.)

## REPORT

Date: 21.03.2017

Name of the Programme: "One Week Faculty Development Program on Abatement of Environmental Pollution through clean technology."

Duration/Dates: One week/ 13.03.2017 to 18.03.2017

No. of participants: 10

Resource personal details: Dr. N. Aruna Kumari, Assistant Principal,  
Dr. B. R. Ambedkar University,  
Srikakulam, Ph no: 8500472665,  
Email: drsidvi@gmail.com

Programme Co-ordinator: Dr. CH. V. V. Satyanarayana Murthy, Professor,  
H & BS Department.

### Objective of the programme:

The Programme focuses on recent developments in clean technology to mitigate environmental pollution.

The Programme will provide a platform to facilitate the participants to undertake multidisciplinary research in thrust areas of environmental science and technology.

### Topics covered:

Waste Management Techniques.  
Sustainable environment management in industries.  
Online monitoring of environmental parameters.

### Outcome of the programme:

It is the responsibility of everyone to protect our environment.  
Let us fulfill our responsibilities in environmental protection, creating a quality ecological environment and sharing wonderful green living together.

  
Programme Co-ordinator

  
Principal

  
Head of the Department

IDEAL INSTITUTE OF TECHNOLOGY  
Vidyutnagar, KAKINADA.