



NEWS LETTER
TECHNO PHILIA

COMPUTER SCIENCE AND ENGINEERING

WE CREATE, WE STIMULATE, WE EMULATE



Editors

R.Ramesh Professor, CSE

Dr.S.V.Appaji Professor, CSE

Advisor

Dr. R.V. Kishore Kumar, CSE

Dr.Ch.Aruna Professor, CSE

Dr M S S Sai Professor, CSE

Dr Murali Professor, CSE

G. Anupama

K. Jeevan Ratnakar

M. Ratnakanth

D Jhansi Rani

Student Coordinators

Navullru Mounica

Devika

A Navya Sree

Arun Roy

Contents

About the Department /Page No 2

Vision of the Department /Page No 2

Mission of the Department /Page No 2

Department Achievements /Page No 2

Staff Achievements /Page No 2

EMAIL: HODCSE@KITSGUNTUR.AC.IN
KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES
VINJANAMPADU, VATTICHERUKURU MANDAL,
GUNTUR, ANDHRA PRADESH 522017

About the Department

The KKR & KSR Institute of Technology and Sciences was established computer science engineering stream in the year of 2008. The Department of Computer Science and Engineering educates knowledge of computer and it's engineering. Almost all fields are computerized to have an ease of handling the problems of designing, manufacturing, maintenance, servicing, researching, marketing and accounting. The B.Tech computer engineering program includes computer operations on different languages, data generation, collection and utilization of information. The Department is implementing OBE based education.

Vision

- ❖ To become a reputed center in computer Science and systems engineering for quality, competency and social responsibility

Mission

- ❖ Providing a strong theoretical and practical education in a congenial environment.
- ❖ Providing additional skills and training to meet the current needs of the industry.
- ❖ Inculcating ethical values to meet the challenges of life with courage and confidence.

Department Achievements

Staff Achievements

3-Day Faculty Development Program on

Quality Sustainability and Quality Enhancement Strategy

2nd July, 2020 to 4th July, 2020

Jointly Organized by APSCHE and KITS IQAC

Objective of the Event

This program is meant to provide awareness on “**Quality Sustainability and Quality Enhancement Strategy**” among teaching fraternity and thereby help them to impart qualitative engineering education to the students.

Team Members of FDP:

Shri Koyi Subbarao, Chief Partron, Chairman

Shri Koyi Shekar, Chief Partron, Secretary

Dr. P. Babu, Partron, Principal

Dr. K Hari Babu, Partron, Academic Director

Dr. M S S Sai, IQAC Coordinator, Dept. of CSE

About the Program/Event:

The central theme of the event is Creating awareness among the faculty members in the following aspects

- What is Quality of Education ?
- How to maintain the Quality in Education?
- How to enhance the Quality in Education ?

Details of Resource Persons:

Resource Person for Day- 1 (02.07.2020):

Key Note Speaker :

Name: Prof. K Ram Mohan Rao

Designation: Vice-Chairman, Andhra Pradesh State Council of Higher Education
Andhra Pradesh

Topic : **“Quality Sustainability and Quality Enhancement Strategy”**

Resource Person for Day- 2 (03.07.2020)

Name: Mr. G Mathew Srirangam

Designation: Academic Officer, Assurance Cell, Andhra Pradesh State Council of
Higher Education, Andhra.Pradesh

Topic : **“Internal Quality Assurance Cell (IQAC)”**

Person -3:

Name: Dr. G Srinivasa Rao

Designation: Expert in Quality Assessment and Accreditation ,IQAC coordinator ,
Reader in Physics, Andhra Loyola College, Vijayawada.

Topic : “**Annual Quality Assurance Report(AQAR)**”

No. of Faculty Participated : Total 862 including 166 doctorates comprising of participants from within and out of the state of AP including 450 participants from various states of Assam, west Bengal , Bihar, Madhya Pradesh , Uttar Pradesh, Tamil Nadu, Karnataka, Delhi etc.

Event Photographs

KITS
Andhra Pradesh State Council of Higher Education
KKR & KSR Institute of Technology & Sciences IQAC
Jointly organize
3 Day's Faculty Development Program on Quality Sustainability and Quality enhancement strategy

02.07.2020 to 04.07.2020
10 : 30 A.M to 12 : 00 Noon

REGISTER FOR FREE AT : <https://tinyurl.com/kitsweb>

SPEAKERS

Prof. A. Rama Mahan Rao
Vice Chairman
AFSDE, AP.

Dr. Matthew Srirangan
Academic Officer, Quality Assurance Cell,
AFSDE, AP.

Dr. S. Subhava Rao
Expert in Quality Assessment
and Accreditation

STEERING COMMITTEE

Chief Patrons

Shri. Koyi Subba Rao
Chairman

Shri. Koyi Shekar
Secretary

Patrons

Dr. P. Babu
Principal

Dr. K. Hari Babu
Academic Director

Co-Ordinator

Dr.M.S.S.Sai
IQAC Coordinator,
Professor,
Department of CSE

Contact details :
9440481313 (What's app)
mssai@gmail.com

* E- Certificate will be provided for the participants after submitting the feedback form

11:10 AM

Areas of Focus: Part-A

5. Accreditation Details

7.1 Quality initiatives by IQAC during the year for promoting quality culture

10. Number of IQAC meetings held during the year

The minutes and compliances to the decisions have been uploaded on the institutional website

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the year

17. Management Information System (brief description and list of modules currently operational)

11:31 AM

Areas of Focus: Part-B

2.7.1 Student Satisfaction Survey (SSS)

3.4.5 Bibliometrics of the publications based on average citation index

3.4.6 h-Index of the Institutional Publications

3.5.1 Revenue generated from Consultancy

3.7.3 MoUs signed

4.2.3 E-content developed by teachers

5.2.2 Student progression to higher education

11:33 AM

Registration/Login

HEIs registered in new process (RAF) need not register again. They can login directly through HEI portal.

Weblinks

<https://assessmentonline.naac.gov.in/public/index.php/hei>

https://assessmentonline.naac.gov.in/public/index.php/hei/registration_new

11:41 AM

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
राष्ट्रीय मूल्यांकन एवं प्रमाणन परिषद
(An Autonomous Institution of the University Grants Commission)
Bharatpur, Jaipur 302004

Higher Education Institution(HEI)
Registration for Assessment and Accreditation

Name of the Institution

Institution type

MHRD AISHE id

Institution email id

Re-entrant Institution email id

Mobile number for communication

Are You previously Accredited Yes No

Terms and Conditions

- Visit NAAC website www.naac.gov.in for Eligibility Criteria, Fee structure, Grading pattern etc.
- Provide official institutional e-mail id's and contact numbers only. All future communications from NAAC shall be done with this e-mail id's and contact numbers.
- Registration does not imply institutional eligibility for assessment.

12:09 PM

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable		
7.1.6 - Activities conducted for promotion of universal Values and Ethics		
Activity	Duration From	Duration To
		Number of participants
No Data Entered/Not Applicable !!!		
7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)		
No Data Entered/Not Applicable !!!		
7.2 - Best Practices		
7.2.1 - Describe at least two institutional best practices		
No Data Entered/Not Applicable !!!		
7.3 - Institutional Distinctiveness		
7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words		
No data entered !!!		
8.Future Plans of Actions for Next Academic Year		
No data entered!!!		



A Five Day Faculty Development Program
On
Data Handling and Data Visualization Using Python

13-07-2020 to 17-07-2020

By

Dr. Baydeti Nagaraju, Assistant Professor, NIT Nagaland

organized by

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

To meet the ever-demanding prerequisites of the knowledge industry, Faculty development programs (FDP) have always been an effective tool to enrich teaching and research competencies of educationists. For this a 5 day faculty development program was conducted by the Department of Computer Science and Engineering, KKR & KSR Institute of Technology and Sciences on Data Handling and Data Visualization using Python in association with the resource person Dr. B. Nagaraju from NIT Nagaland in virtual mode. Faculty members from various Engineering colleges, universities, industry persons, researchers through the nation were participated. The main objective of this FDP is to introduce the data science concepts like data collection, data preprocessing, data modeling, data visualization, data interpretation. It covered an overview on data analysis and its applications with real time examples. The participants obtained deep insights of data science, which in turn would help them apply the same in practice or as a foundation to a deeper study in this area and also helpful for their research. Both industrials and academicians enhance their knowledge through practical sessions. On first day of session theory concepts were discussed, next 4 days the sessions are organized in practical manner. The expert also discussed the Growth opportunities as data scientists in this technology.

Co-Ordinators: Smt. PGK. Sirisha, Associate Professor, Dept. of CSE

Smt. Ch. Jhansi Rani, Assist Professor, Dept. of CSE

Convener:

Prof R. Ramesh HOD , Dept. of CSE

About the Program/Event:It is a 5 day Faculty Development Program (FDP) on “**Data Handling and Data Visualization**” Organized by Dept. of Computer Science and Engineering for faculty from various engineering colleges, universities, researchers, and industries throughout the nation at KKR& KSR Institute of Technology & Sciences.

Details of Resource Person:

Name: Dr. Baydeti Nagaraju

Designation: Asst. Professor from NIT Nagaland

KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES
(APPROVED BY AICTE, NEW DELHI | AFFILIATED TO JNTUK, KAKINADA | ACCREDITED BY NBA | "A" GRADE BY NAAC)
VINJANAMPADU, VATTICHERUKURU(MD), GUNTUR-522017

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A 5 DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON DATA HANDLING AND DATA VISUALIZATION USING PYTHON
(13-07-2020 TO 17-07-2020, Time: 10 AM TO 12 Noon)

Dr. Nagaraju Baydeti
Dept of CSE
NIT Nagaland

Registration Fee - 100/-

Registration closes on: 12-07-2020
Registration Link: <https://tinyurl.com/pythonfdp>

Co-ordinators: Smt. PGK.Sirisha, Smt. Ch. Jhansi Rani
Convener: Prof. R. Ramesh HOD, Dept of CSE
Principal: DR. P. Babu Director
Dr. K. Hari Babu

Event Photographs

2. Origin of Data Science?

- John Wilder Tukey, an American mathematician.
 - Developed Fast Fourier Transform algorithm and box plot.
 - He introduced the word 'bit' while working with John Von Neuman.
 - In 1962, he described a field called 'data analysis'.
- Peter Naur, a Danish computer science pioneer & Turing award winner.
 - Designed ALGOL 60 (Algorithmic Language 1960)
 - Well known for the contributor of Backus-Naur form (BNF) not used in describing the syntax for most programming languages.

Figure 1: Theory session by Dr. B. Naga Raju

4. The Data Science - Workflow

The Analytics Cycle is a continuous loop of four stages:

- WHAT IS OUR PLAN?** (top)
- WHAT SHOULD WE DO?** (left)
- WHAT WILL HAPPEN NEXT?** (bottom)
- WHAT HAPPENED?** (right)

 The center of the cycle is labeled **Analytics Cycle**.

Figure 2: Overview of Data Science

5. Life Cycle of Data Science

The Life Cycle of Data Science consists of the following stages and sub-steps:

- Capture:** Data Acquisition, Data Entry, Signal Reception, Data Extraction.
- Maintain:** Data Warehousing, Data Cleansing, Data Staging, Data Processing, Data Architecture.
- Process:** Data Mining, Clustering/Classification, Data Modeling, Data Summarization.
- Analyze:** Exploratory/Confirmatory, Predictive Analysis, Regression, Test Mining, Diagnostic Analysis.
- Communicate:** Data Reporting, Data Visualization, Business Intelligence, Decision Making.

Figure 3: Data Science Life Cycle

Hands On session on Data Handling

```

import xlwt
import os
import random

myExcelFileName = input('Enter the filename: ')
fileExists = os.path.isfile(myExcelFileName)
if fileExists:
    print('File exists')
else:
    print('File does not exist')

# Create a excel workbook
myExcelBook = xlwt.Workbook()
mySheet1 = myExcelBook.add_sheet('Sheet-1')
mySheet1.write(0,0,'Balaram')
mySheet1.write(0,1,'Balaram')
mySheet1.write(0,2,'Balaram')
mySheet2 = myExcelBook.add_sheet('Sheet-2')
mySheet2.write(0,0,'Rajini')
mySheet2.write(0,1,'Rajini')
mySheet2.write(0,2,'Rajini')

# Outer loop starts from i = 1 and ends at i = (2001)-1 = 2000
for i in range(1,2001):
    # Outer loop is for row range(i,-1)
    # Inner loop will start from j = 0 and ends at j = (10)-1 = 9
  
```

Figure 4: Hands On session on Data Handling

Data Preprocessing

```

import pandas as pd

# Creating an empty dataframe
myDataFrame = pandas.DataFrame()
print(myDataFrame)

# Creating a dataframe from a List
import pandas
myListData = [1,2,3,4,5]
myDataFrame = pandas.DataFrame(myListData)
print(myDataFrame)

# Creating a dataframe from List of Lists
import pandas
myListData = [['Nischal',7],['Nihal',5],['Nihasan',1],['Diyann',6]]
myDataFrame = pandas.DataFrame(myListData,columns=['Name','Age'])
print(myDataFrame)

# Creating a dataframe from Dictionary of ndarrays or Lists
# All the ndarrays must be of same length.
# If index is not given, then the length of the index should equal to the length of the
  
```

Figure 5: Data Preprocessing

Data Visualization Concepts

The heatmap displays a grid of data points. The x-axis and y-axis both range from 0 to 10. The color scale ranges from 0.0 (dark purple) to 1.0 (bright red). The data points are distributed across the grid, with higher values (red) concentrated in the lower-right quadrant and lower values (purple) in the upper-left quadrant.

Figure 6: Data Visualization Concepts

It is a 5 day FDP on Data Handling and Data Visualization using python. Each session is held in smooth manner. Every lecture is very informative with clear explanation through practical by the resource person. Which are very interactive and the resource person clear the doubts of participants in clear manner. This is a great platform to enhance the knowledge towards the data science technology. Every day feedback is taken from the participants and session videos are sent to the participants for further reference.

MHRD- IIC Webinar on Blockchain Technology and its Applications

Conducted by Department of Computer Science and Engineering

Objective of the Event: Objective of the event is to provide the basic knowledge and insight on latest technology Blockchain and motivate the young minds to solve the problems related to various domains of the society using Blockchain Technology.

About the Program/Event: 3 hours webinar on Blockchain Technology and its Applications for CSE students of various colleges organized by the Department of CSE at KKR & KSR Institute of Technology & Science in association with Cluster IT Solutions PVT Ltd.

Details of External Participants: 142

Details of Resource Person1 :

Name: B Sunil Kumar

Address: Cluster IT Solutions PVT. Ltd., Hyderabad

Designation: Chief Operational officer, Cluster IT Solutions PVT. Ltd., Hyderabad

This webinar was organized very well and I have learned the many points from this session, earlier i don't know about block chain technology but now I got the overall concept.

Event Photographs



KITS **KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES**
VINIANAMPADU, VATTICHERUKURU MANDAL, GUNTUR, ANDHRA PRADESH 522017
(APPROVED BY AICTE-NEW DELHI, AFFILIATED TO JNTUK KAKINADA)
(ACCREDITED WITH 'A' GRADE BY NAAC & NBA)
WWW.KITSGUNTUR.AC.IN

INSTITUTION'S INNOVATION COUNCIL
MEMBER OF AICTE INNOVATION COUNCIL
WEBINAR
ON **BLOCKCHAIN TECHNOLOGY AND ITS APPLICATIONS**
IN ASSOCIATION WITH

CLUSTER IT SOLUTIONS PVT. LTD.

Date: 04.07.2020
Time: 2PM

E-certificate will be provided through Registered mail id

CONVENER
Prof. R.Ramesh
Professor & HOD
Dept. of CSE
Email: repudiramesh@gmail.com
Mobile No: 9493925553

COORDINATORS
Dr. G.Murali,
Contact No: 9885090345,
mail_id: m_gurupat@yahoo.com
Dr. S.V.Appaji,
Contact No: 7989515307
mail_id: appaj_sve@yahoo.co.in

RESOURCE PERSON
SUNIL KUMAR BANDREDDI
CHIEF OPERATIONS OFFICER
CLUSTER IT SOLUTIONS PVT. LTD.

Registration: Free
Open for faculty & Students
Registration due date
03.07.2020

What is Blockchain ?

A **blockchain**, is a growing list of records, called *blocks*, which are linked using cryptography.

It is "an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way"



02/43 / 194/02

Blockchain Technology has emerged as high-performance computing to create a permanent, public, transparent ledger system for compiling data on sales, tracking digital use and payments to content creators, such as wireless users or musicians. Students got motivated towards latest technology learning and its applications, with this basic knowledge and motivation they can apply it for better carrier and for better society

A webinar on Industry 4.0

The poster is for a webinar on Industry 4.0. It features a dark blue background with various icons representing Industry 4.0 concepts like AR, IOT, cloud computing, and data analysis. The KITS logo is at the top right, with accreditation details below it. The event is organized by the Department of Computer Science and Engineering in association with Pantech E Learning. The webinar is on 03-07-2020 at 4.00 PM. The principal is Dr. P. Babu, academic director is Dr. K. Hari Babu, and convener is Prof. R. Ramesh HOD/CSE. Co-ordinators are Dr. M. S. S. Sai. Registration is free and an e-certificate will be provided. Social media links for Facebook and Twitter are provided. The Pantech e Learning logo and website are at the bottom.

KITS
KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES
(Accredited by NBA | "A" Grade by NAAC | Approved by AICTE, New Delhi | Affiliated to JNTUK, Kakinada)
Vinjanampadu (Vil), Vatticherukuru (Md), Guntur (Dt), A.P. India -17.

Organized By
Department of Computer Science and Engineering
in association with Pantech E Learning

WEBINAR ON
INDUSTRY 4.0
03-07-2020 at 4.00 PM

Principal | Academic Director | Convener
Dr. P. Babu | Dr. K. Hari Babu | Prof. R. Ramesh
HOD/CSE

Co-ordinators
Dr. M. S. S. Sai

Free Registration | E-Certificate will be provided.

<http://facebook.com/kits.guntur.18> | [@kitsguntur](https://twitter.com/kitsguntur)

Pantech e Learning
ONLINE LEARNING PLATFORM | www.pantechlearning.com

Pantech e-Learning (youtube)
Registration Link: or scan the Qr Code
<https://forms.gle/S46yGwrBVUFPmbaQ6>