



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)**

L.B. REDDY NAGAR, MYLAVARAM – 521230. A.P. INDIA
Affiliated to JNTUK Kakinada & Approved by AICTE, New Delhi
Accredited By NAAC, Accredited By NBA Tier-I & Certified by ISO 9001:2015
<http://www.lbrce.ac.in>, Phone: 08659 – 222933, Fax: 08659 – 222931 Extn:109
DEPARTMENT OF INFORMATION TECHNOLOGY

REPORT

on

Three-day workshop on Network Programmability

17th – 19th December, 2020

Lakireddy Bali Reddy College of Engineering (A) has organized three-day workshop on Network Programmability from **17th – 19th December, 2020**. The program conducted by Dept. of IT. The total number of students participated are 112 from various institutions.

Resource Person: Ms. K. Vinaya Sree, NETWORK CONSULTING ENGINEER, Cisco Systems India Private Limited, Distinguished Alumni

Day 1 (17/12/2020):

FDP was inaugurated on 17th December, 2020 by all the IT department Staff Members

The day started with the welcome speech given by the III year student and continued the workshop.

Topics Covered:

- Programming Skills (TCL, EEM, Expect Scripts)
- Networking Skills, Spanning Tree, Routing protocols, QOS, VPN, VOIP
- Four ages of Networking (Stone age, Bronze age, The Renaissance, Programmable Age)
- Digitization of Enterprise
- Basics of Networking (Data Networks, Network Interface card, Networking Device Icons, Repeater, Hubs, Bridge, Router)
- Various Topologies

Day 2 (18-12-2020):

Following topic are covered on the second day

Topics Covered:

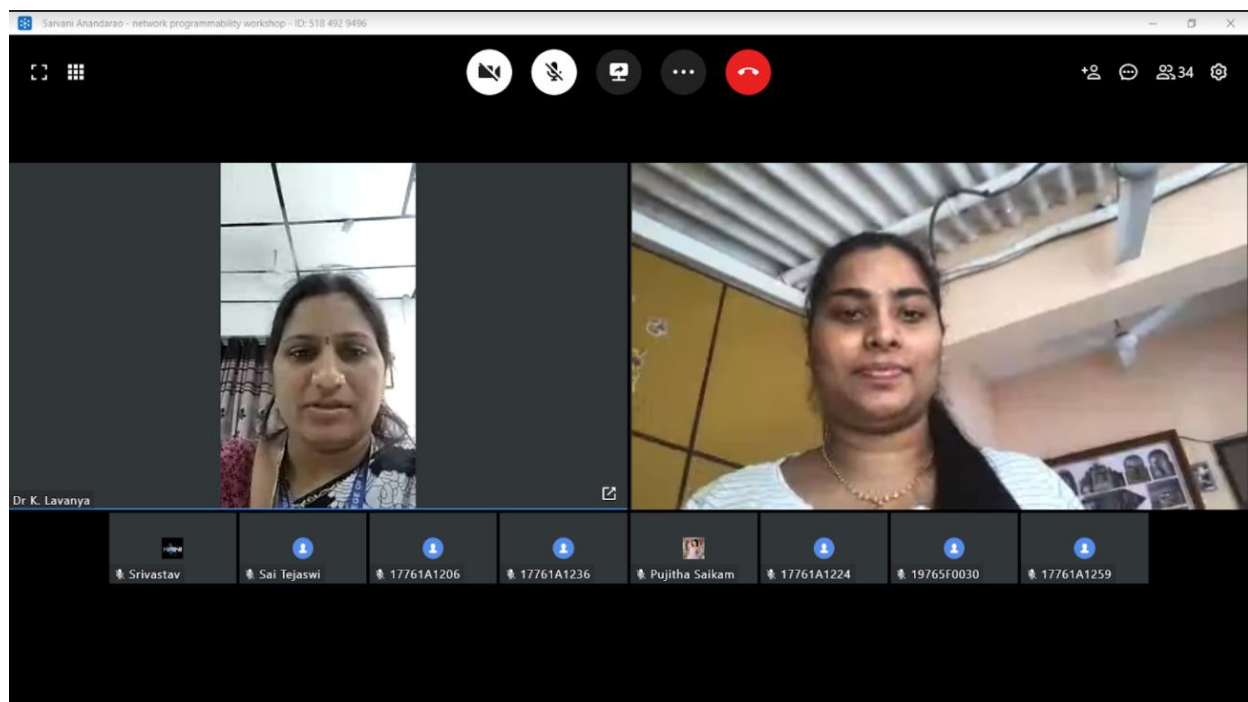
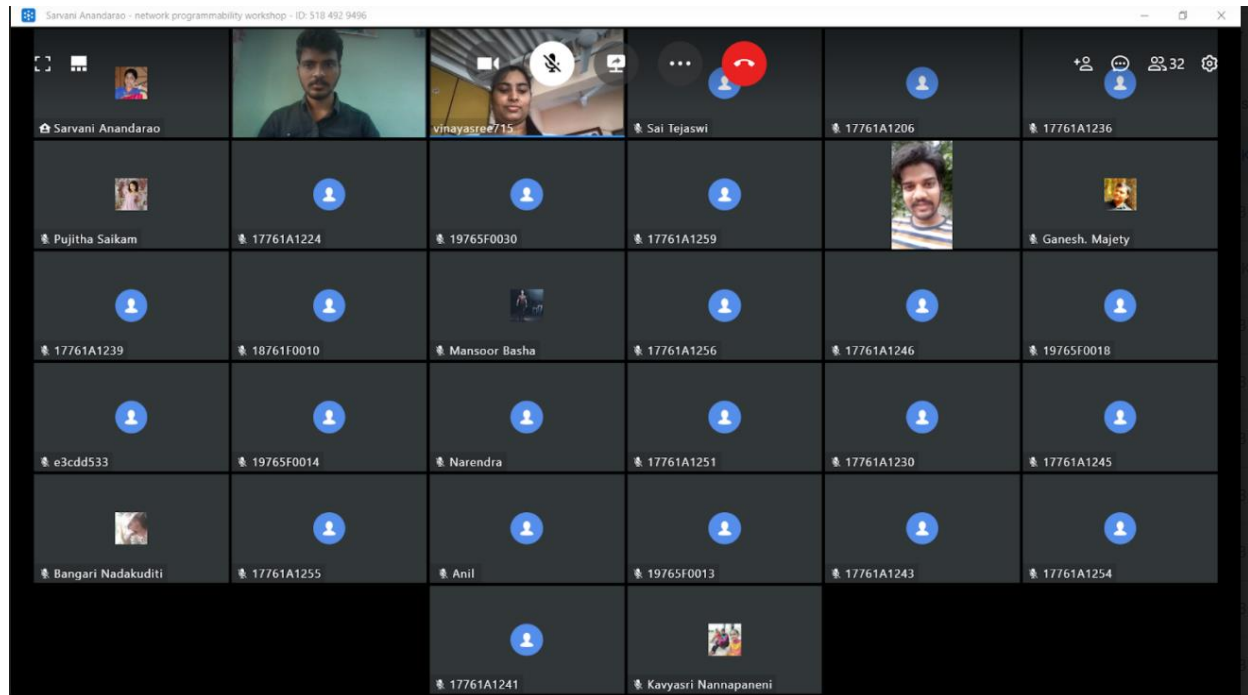
- LAN, WAN, MAN
- Cellular Topology
- SAN's
- Virtual Private Network
- OSI Model and its analogy
- Host Layers
- Data Flow through network

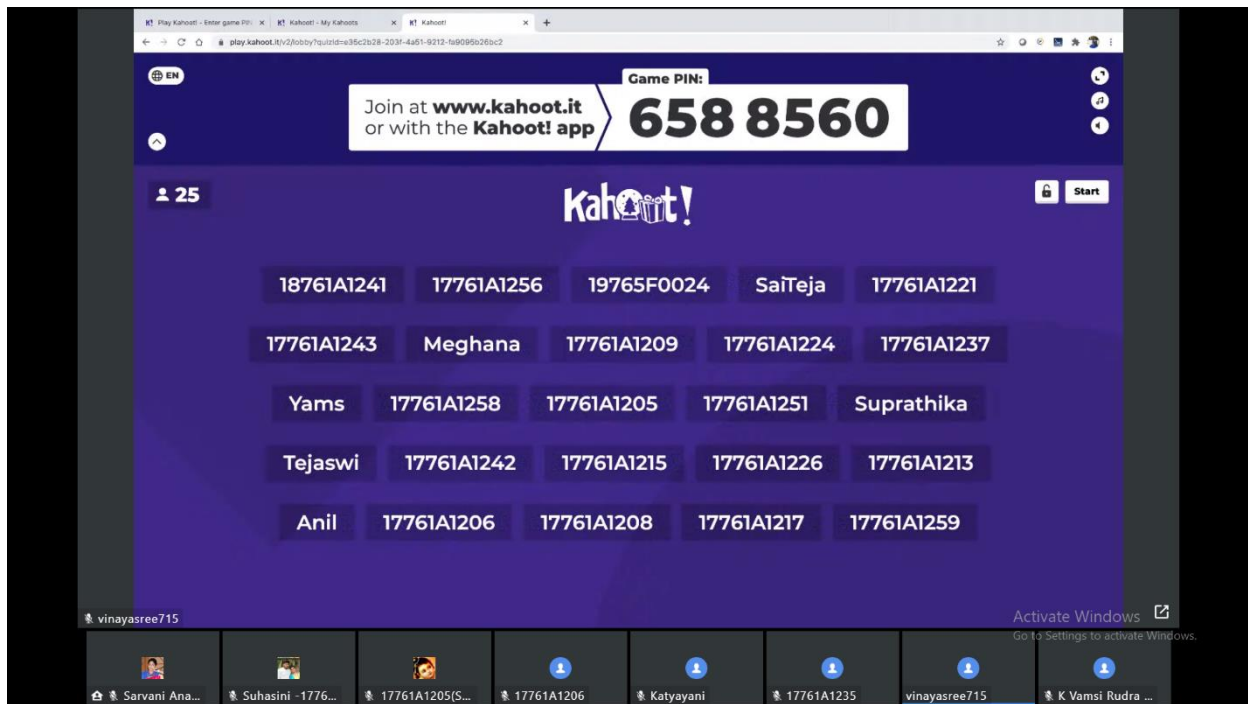
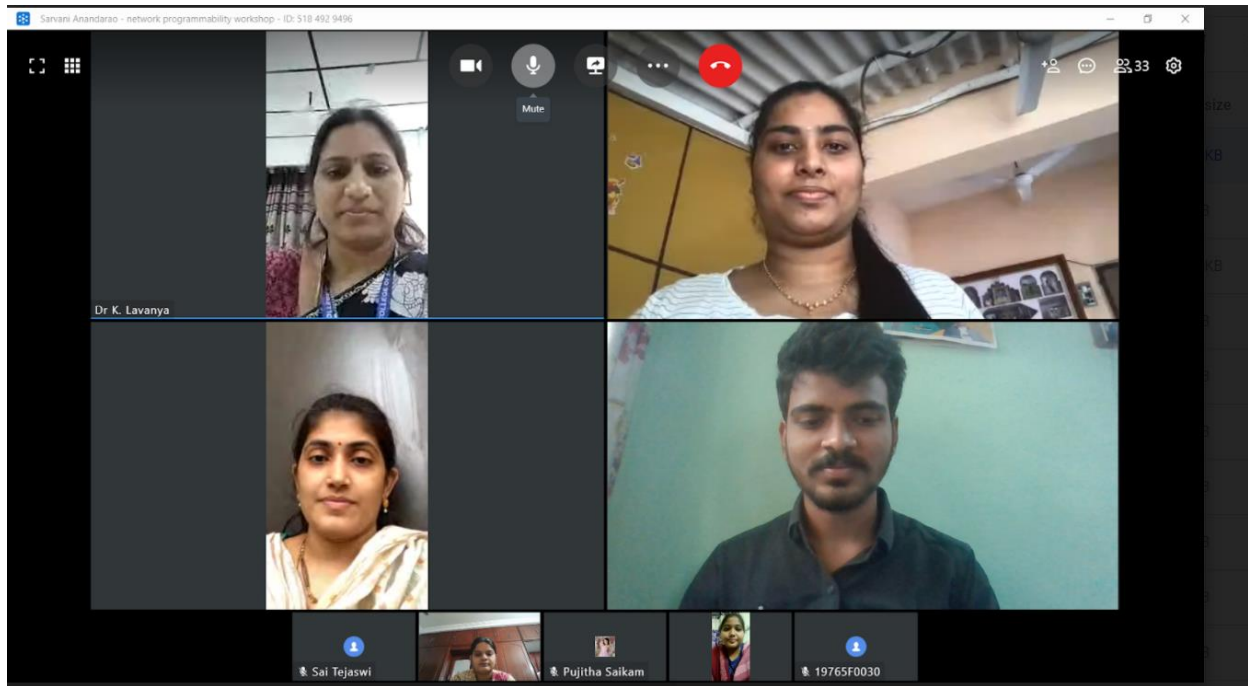
Day 3 (19-12-2020):

Topics Covered:

- Switching modes
- Full duplex
- Micro segmentation
- Peer to peer network

The third day session ended with the vote of thanks by a III year student and quiz for the students.





Sarvani Anandarao - network programmability workshop - ID: 518 492 9496

Connection establishment in TCP is done by which mechanism?

3

16 Answers

Flow Control

Three-way Handshaking

Forwarding

Synchronization

15/16

kahoot.it Game PIN: 6588560

Windows Taskbar: 17761A1205(L), Sarvani A..., Suhasini - 17..., Umakanth Re..., 17761A1206, Katyayani, 17761A1235, vinayasree715, K Vamsi Rudr...

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Sarvani Anandarao - network programmability workshop - ID: 518 492 9496

Network

Router Router

Switch Switch

Blade Switch Blade Switch

Server Server Server

vSwitch vSwitch

VM VM VM VM VM VM

lbr lbr lbr lbr

C C C C C C C C C

Cloud Exchange

"Cloud"

VM C

lbr C C

Windows Taskbar: 17761A1205(L), 17761A1259, Suhasini - 17..., Umakanth Re..., Katyayani, 17761A1235, 17761A1213, vinayasree715, K Vamsi Rudr...

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Brochure

INTRODUCTION

Automating networks is becoming the standard for datacenters, with major implications for network engineers with Network Programmability. They contribute to connectivity, network performance tuning, security, and many other areas of network management that require network expertise. In IT industry day by day technologies are getting involved to change our life. Desktop Computers, Server Computers, Switches, Routers, Firewalls, Load Balancers, NAS Box, Virtualization, Cloud Computing and many more devices, applications are in IT companies to make life better and easy. DevOps is a methodology to build IT Operations easy. We decided to bring an awareness on DevOps.

This workshop planned by the Information Technology Department for students. In the subsequent events, advanced skills will be dealt. The workshop is planned to impart both theoretical aspects and practical knowledge to the participants. At the end of the workshop, there will be a programming test to the participants and the participant who succeed workshop the participation E-certificate will be issued.

Course Contents:

- Programming Fundamentals
- Network device APIs
- Network controllers
- Application hosting and the Network
- NetDevOps]

ELIGIBILITY

The program is open to all UG & PG students

REGISTRATION LINK

<https://forms.gle/JoXuZdeVo9kRngh7>

Registration fee Details: **NO FEE**

Join in Whatsapp Group:

<https://chat.whatsapp.com/JoXuZdeVo9kRngh7>

E-Certificate will be provided

ABOUT THE INSTITUTE

The LBR College of Engineering (LBRCE) is located at Mylavaram, 40km from Vijayawada on Bhadrachalam highway and is spread over 50 acres of sprawling lush green landscape spotted with orchids and grooves. One of the good achievements of the LBRCE is Autonomous status from the academic 2013-14.

At LBRCE the focus is on a well-balanced approach where most sophisticated infrastructure is supported by a dedicated team of well qualified and experienced faculty. The Management also actively involves in every aspect and career of the faculty and students. LBRCE offers B. Tech Courses in CSE, IT, AI&DS, ECE, EEE, EIE, MECH Engineering and P.G. programmes: M.B.A., M.C.A. & M.Tech Courses in ECE, CSE,IT and Mech. All laboratories are equipped with state of the art facilities backed by advanced computer systems and the latest software.

Institute Vision:

To empower students to become technologically vibrant, innovative and emotionally mature and to train them to face the challenges of the quality-conscious globalized world economy.

Institute Mission:

- To provide an environment most conducive to learning and to create a stimulating intellectual atmosphere on the campus.
- To achieve Academic Excellence.
- To ensure a holistic development of personality.
- To spread education to rural areas.
- To establish partnership between Institution & Industry.

ABOUT MYLAVARAM

It is situated at a distance of 45 Km. from Vijayawada. Mylavaram is well connected by rail and road to various places in the state. Participants are advised to alight either at Vijayawada or Kondapalli depending on their travel conveniences.

ABOUT THE DEPARTMENT

The Department of IT is established in the year 1999 and offers an undergraduate program in Information Technology with intake of 120. The Department has well qualified faculty and good laboratory facilities. All the laboratories are well equipped with state of the art experimental sets, both in quality and quantity, which brings the number of students per batch of two. The department regularly conducts Guest Lectures / Seminars / Workshops / Technical paper contests for the benefit of both faculty and student community.

Department Vision:

To emerge as one of the most preferred department for the budding engineers, aspiring to be successful IT professionals.

Department Mission:

- To inculcate team skills and leadership qualities in the student through projects, seminars and group activities.
- To impart quality education with a well-designed curriculum, consistent with industry requirements, that equips the student to face the career challenges.
- To cultivate the qualities of social awareness and service to the humanity among students.
- To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.

Program Educational Objectives (PEOs):

Four to Five years after successful completion of graduation students will be able to:

- Pursue a successful career in the area of Information Technology or its allied fields.
- Exhibit sound knowledge in the fundamentals of Information Technology and apply practical experience with programming techniques to solve real world problems.
- Demonstrate self-learning, life-long learning and work in teams on multidisciplinary projects.
- Understand the professional code of ethics and demonstrate ethical behavior, effective communication, and team work and leadership skills in their job.

Program Specific Outcomes (PSOs):

- Graduate of the Information Technology will have the ability to Organize, Analyze and Interpret the data to extract meaningful conclusions.
- Design, Implement and Evaluate a computer-based system to meet desired needs.
- Develop IT application services with the help of different current engineering tools.



THREE DAY WORKSHOP
ON
"NETWORK PROGRAMMABILITY"
(17th – 19th December, 2020)

Organized by
Department of Information Technology



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Accredited by NAAC & NBA (CSE,IT,ECE,EEE &
ME) under Tier-1
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JNTUK, Kakinada
MYLAVARAM – 521 230
KRISHNA (Dt), A.P.
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Organizing Committee

All the IT department Staff Members.

Convener

Dr.B. Srinivasa Rao,
Professor & HOD,
Department of Information Technology
Lakireddy Bali Reddy College of Engineering

Coordinator

Dr.K.Lavanya,
Associate Professor,
Department of Information Technology
Lakireddy Bali Reddy College of Engineering

Co-Coordinator

Mrs. A. Sarvani,
Assistant Professor,
Department of Information Technology
Lakireddy Bali Reddy College of Engineering

Resource Person

Ms.K. Vinaya Sree
NETWORK CONSULTING ENGINEER, Cisco
Systems India Private Limited
Distinguished Alumni

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ONLINE THREE-DAY WORKSHOP
ON
"NETWORK PROGRAMMABILITY"
(17th – 19th December, 2020)



Chief Patron

Sri Lakireddy Bali Reddy,
Chairman
Sri Lakireddy Jaya Prakash Reddy,
Co-Chairman
Sri Lakireddy Prasad Reddy,
Vice-Chairman

Patron

Sri G.Srinivasa Reddy, President
Dr. K.Appa Rao, Principal
Dr. K. Harinadha Reddy, Vice-Principal

