



## Koneru Lakshmaiah Education Foundation

(Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A' Grade University ♦ Approved by AICTE ♦ ISO 9001-2015 Certified

**Campus:** Green Fields, Vaddeswaram - 522 502, Guntur District, Andhra Pradesh, INDIA.

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## Department of Electronics and Computer Science

### TWO WEEK NATIONAL LEVEL SHORT TERM TRAINING PROGRAM (Online) on

### **“AI and DEEP LEARNING PRACTITIONER APPROACH”**

**held from 7<sup>th</sup> to 19<sup>th</sup> June 2021.**

**About K L University:** the Koneru Lakshmaiah Education Foundation was established in 1980-81, as K L College of Engineering, which was upgraded to K L College of Engineering Autonomous in 2006 by UGC and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. In 2012 as a Deemed to be University, the institution was accredited by NAAC with an A Grade and later in 2018, was re-accredited by NAAC with an A++ grade. In 2019 UGC, MHRD declared this institution as a Category I Institution. The institution remains indebted to the leadership of our late co-founder Er. Koneru Lakshmaiah and our Founder Er. Koneru Satyanarayana, both of whose vision has helped in creating this abode of learning, has emerged as one of the elite institutes of the nation.

The Department of Electronics and Computer Science, KLEF organized a two week National level Faculty Development on “Full-stack AI and Deep Learning a Practitioner Approach” held from 07<sup>th</sup> June to 19<sup>th</sup> June 2021 in association with Academic Staff College, KLEF. The Chief Guest Dr. Lalit Singh, Ph.D. [IIT (BHU)], Scientist, NPCIL-BARC Department of Atomic Energy Govt. of India addressed all the participants with his knowledgeable session.

About the STTP2021-22, This STTP is aimed at giving hands-on training to the faculty members, PG Students, and research scholars on various aspects of IoT, AI, ML, Data Science, and Deep Learning. The STTP 2021-22 comprised a series of technical presentations and a video demonstration of laboratory-based IoT, AI, ML, Data Science, and Deep Learning experiments. The experiments will use the Arduino and other relevant IoT support technologies and A.I., ML, Data Science and Deep Learning simulation software's using python and AWS cloud and think to speak cloud for deploying IoT applications. The FDP & STTP is being conducted online mode using facilities MS-Teams/CISCO WebEx/ Zoom Application through which resource persons from their respective residence will attend all sessions and the registered participants can interact with them online using their Desktop / Laptop / Tablet/ Smart Phone with internet connectivity from anywhere.

The course content is delivered from a pool of resource persons on the subject from leading industries and prestigious academic institutions. Massive Participation by the faculty members of the Engineering and Technical institutions, Research scholars, P.G. Students, Industry, and Research Scientists from private/Government (Bureaucrats/ Technicians/ Participants from Industry, etc.)



**Figure 1: Online STTP2021-22 Inauguration**

Dr N Venkatram Pro-Vice Chancellor, Dr. YVSSV Prasada Rao Registrar-, , Dr K Subba Rao -Principal-KLCOE, Conference Convener, Dr MSG Prasad, HOD-ECM Dr K V D Sagar, Convenor-IFDP2021-22, Dr MSG Prasad Dep. HoD-ECM , , Mrs. Aruna Sri Dpty. HoD, Dr. M. Suman HoD-ECE, Dr. V. Prabhakar Industry Connect, KLEF have inaugurated the IFDP 2021-22 program. Faculty, Research Scholars, and students from different states of the country have attended.

#### **Aim and Scope of the STTP 2021-22:**

This STTP aims to provide a premier interdisciplinary platform for researchers, practitioners, and educators to learn and discuss the most recent innovations, trends, and concerns, as well as practical challenges, encountered and Research Perspectives on AI, ML, Data Science.

The STTP comprises a series of technical presentations and a video demonstration of laboratory-based IoT, AI, ML, Data Science, and Deep Learning experiments. The experiments will use the advanced embedded platforms and other relevant IoT support technologies and A.I., ML, Data Science and Deep Learning simulation software are using python and AWS cloud Over 40 objectives were meant and but are not limited to: Predictive Analytics, Convolution Neural Networks, Deep Learning Models for Computer Vision, Recurrent Neural Networks, Generative adversarial

networks (GAN), Natural Language Processing, Transforming healthcare using Artificial Intelligence, Data in Artificial Intelligence and many more.



**Figure 2: Guests and Resource persons for IFDP2021-22**

The Resource Persons, Ms. Vineela (ALUMNI-ECS), ARUNJIT CHOWDHURY, Dr.P. Srinivasa Rao, Dr. Mayuri Mehta, L Venkata Rama Raju, Mrs. Manasi Kulkarni, Mr. T S V Rajeev, Dr Ramesh Kumar Mojjada shared their knowledge in the topics like:

- ✓ ML and seismic signal processing applications
- ✓ Python hands on programming sessions
- ✓ Nature Inspired Optimization Algorithms and Its Applications
- ✓ AI in Healthcare: Emerging Trends, Use Cases and Future Directions"
- ✓ Introduction to Recommendation System
- ✓ Micro services deployment on cloud
- ✓ Deep thinking for safety analysis of safety-critical systems

- ✓ Natural Language Processing using NLTK
- ✓ Gradient Descent Solver, DNN, Brief introduction to semantic similarity, Word2Vec Word Embeddings
- ✓ Basics of Docker and Kubernetes

towards STTP program..... all of this knowledge will no doubt be valuable as we go forward in life.

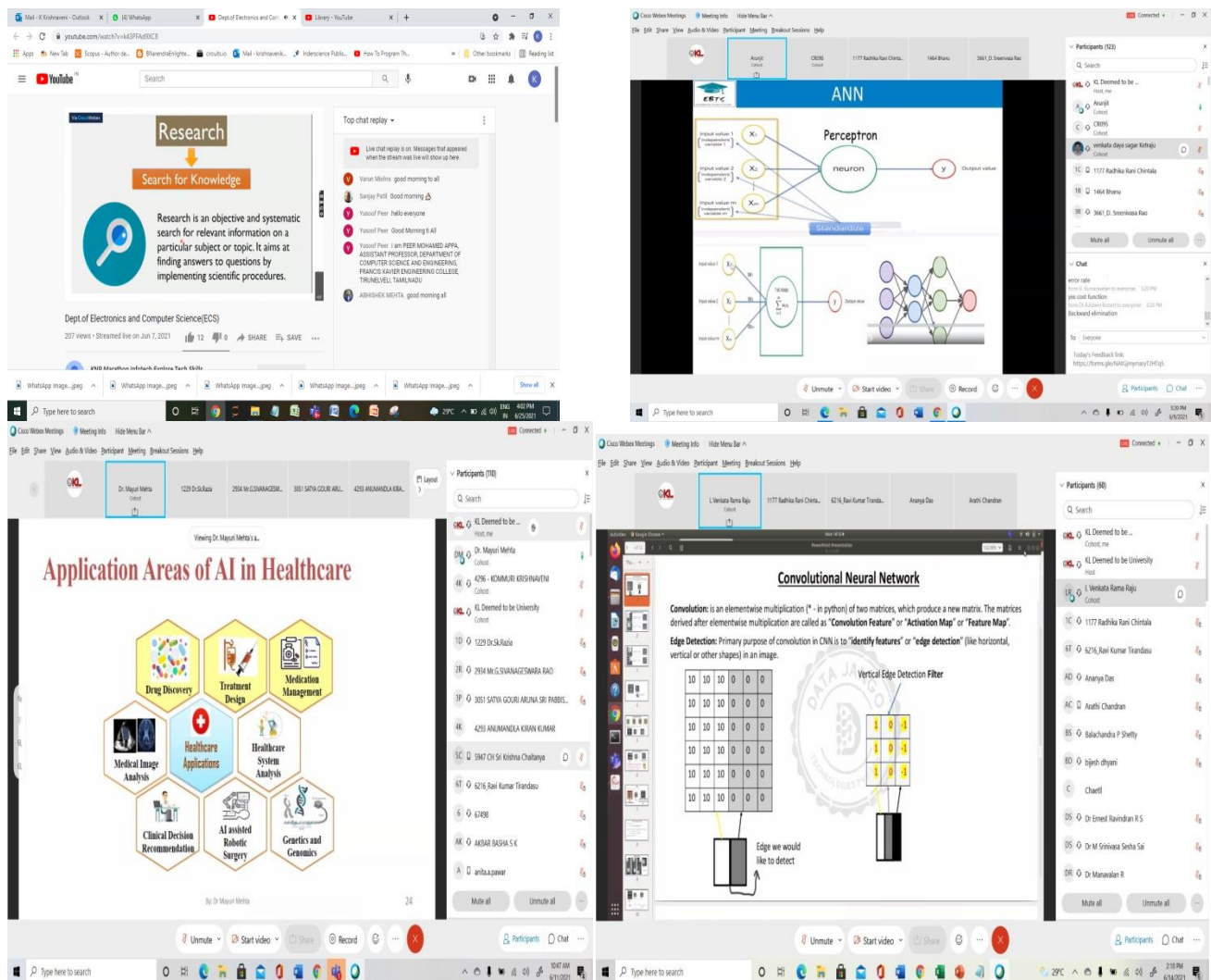


Figure 3: WebEx & YouTube Participation during the IFDP2021-22

The Speakers highlighted the current IoT challenges including security, privacy, and scalability, etc along with other challenges of IoT which include processing, storing, and analyzing a large amount of data that comes from so many different resources. An overview on Research Perspectives on AI, ML, Data Science & IoT that are extremely useful in our daily life, such as smart cars, home appliances, and security, health-tracking wearable devices, weather monitors, etc. along with challenges and possible solutions are discussed. The Speakers also stressed Cyber Security technologies that processes and practices aimed to protect networks, computers, programs, and data from attack, damage, or unauthorized access.

A total of 14-Days- STTP brought a lot of experience with over 250 + massive participants all the days in WebEx meetings and on YouTube Live streaming. It has been achieved 862 subscribers 5784 views on YouTube social media which uplifts the Internet Traffic.

**This Online National Level Short Term Training Program records are available at:**

<https://www.youtube.com/c/ElectronicsandComputerScienceECS>

**STTP-2021-22 Local News Paper Coverage**

<p><b>కేఎల్ యూలో ఫ్యాకల్టీ డెవలప్ మెంట్ ప్రోగ్రాం</b></p> <p>తాడేపల్లి రూరల్: కేఎల్ డీప్ట్ యూనివర్సిటీలో డిపార్ట్ మెంట్ ఆఫ్ ఎలక్ట్రానిక్స్ అండ్ కంప్యూటర్ సైన్స్ అకడమిక్ స్టాఫ్ కాలేజీ ఆధ్వర్యంలో మే 17 నుంచి మూడు వారాల అంతర్జాతీయ , రెండు వారాల జాతీయ ఫ్యాకల్టీ డెవలప్ మెంట్ ప్రోగ్రామ్ ను నిర్వహించారు. ఈ శిక్షణకు దేశవ్యాప్తంగా వివిధ కళాశాలల నుంచి సుమారు 2000 మంది పాల్గొన్నారని కళాశాల వైస్ చాన్సలర్ డాక్టర్ ఎన్. వెంకట్రామ్ సోమవారం తెలిపారు. ఆర్టిఫిషియల్ ఇంటెలిజెన్స్, మెషిన్ లెర్నింగ్, ఇంటర్నెట్ ఆఫ్ థింగ్స్ వంటి వివిధ అంశాల్లో శిక్షణ ఇచ్చామని పేర్కొన్నారు. శిక్షణలో పాల్గొని ఉత్తీర్ణులైన వారిని కళాశాల వైస్ చాన్సలర్ డాక్టర్ ఎన్. వెంకట్రామ్, ప్రెసిపాల్ డాక్టర్ కె. సుబ్బారావు, విభాగాధిపతి డాక్టర్ ఎం. శివగంగ ప్రసాద్, డాక్టర్ ఎం. సుమన్, డాక్టర్ ఎ. శ్రీనాథ్, కె.వి.డి. సాగర్ తదితరులు అభినందించారు.</p> <p><b>సాక్షి</b> Tue, 22 June 2021  <a href="https://epaper.sakshi.com">https://epaper.sakshi.com</a> 07:47 C</p>	<p><b>ఈనాడు</b>  epaper.eenadu.net</p> <p><b>డేటా సైన్స్ కీలకం</b></p> <p><b>తాడేపల్లి:</b> ప్రతి సంస్థలో డేటా కీలక భూమిక పోషిస్తుందని ప్యాషనెట్ టెక్నాలజీ ప్రతినిధి అక్కిరాజు హరికిశోర్ అన్నారు. కేఎల్ యూలోని ఎలక్ట్రానిక్స్ అండ్ కంప్యూటర్ సైన్స్ విశాఖ గవర్నమెంట్ ఆఫ్ ఇండియా మినిస్ట్రీస్ ఆఫ్ పోర్ట్ షిప్స్ అండ్ వాటర్ సర్వీస్ డేటా సైన్స్ పై మంగళవారం జాతీయ స్థాయి వెబినార్ నిర్వహించాయి. దీనికి ముఖ్యఅతిథిగా హరికిశోర్ హాజరవగా, దేశవ్యాప్తంగా 300 మంది పాల్గొన్నారు. కేఎల్ యూ నుంచి ప్రొఫెసర్ చాన్సలర్ వెంకట్రామ్, రిజిస్ట్రార్ ప్రసాదరావు, ప్రెసిపాల్ సుబ్బారావు, వైపుజ్ఞాభివృద్ధి విభాగం డీన్ శ్రీనాథ్, ఈసీఎం, ఈసీఈ విభాగాధిపతులు శివగంగ ప్రసాద్, డాక్టర్ సుమన్ పాల్గొన్న వారిలో ఉన్నారు.</p> <p><b>Date : 23/06/2021 EditionName : ANDHRA PRADESH( GUNTUR CITY ) PageNo : 05</b></p>
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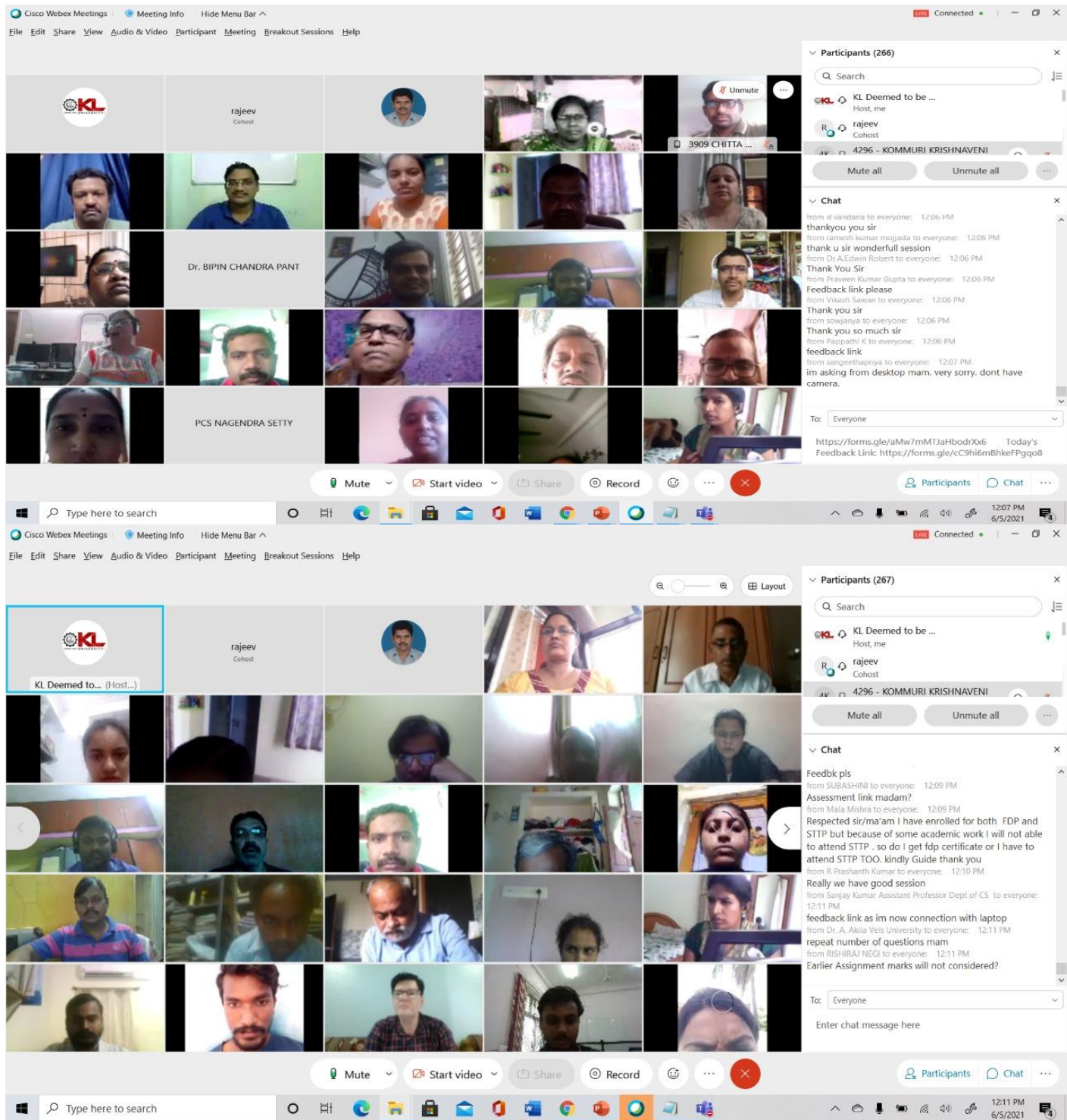


Figure: Participants

Program Coordinator  
Dr.K.V.D.Sagar

Program Chair  
Dr.MSG Prasad, HoD-ECS