

List of Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

S.No.	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
1	Dr.V.V.K.D.V. Prasad (PI)	AICTE	Government	Electronics & Communicaitons Engineering	2021-22	9.558	2 Years (Ongoing)
2	Mr.B.R.B.Jaswanth (Co-PI)						
3	Dr.M.Kama Raju (PI)	AICTE	Government	Electronics & Communicaitons Engineering	2020-21	0.93	1 Year
4	Dr.Y.Rama Krishna	AICTE	Government	Electronics & Communicaitons Engineering	2020-21	3.00	2 Years
5	Dr.S.Narayana (PI)	AICTE	Government	Computer Science Engineering	2020-21	11.65	2 Years
6	Dr.Ch.Kavitha (PI)	AICTE	Government	Information Technology	2020-21	0.93	1 Year
7	Dr. DNVSLS Indira (PI)	AICTE	Government	Information Technology	2020-21	1.00	1.5 Years
8	Dr. Ch. Suresh Babu (Co-PI)						
9	Dr.V.V.K.D.V. Prasad (PI)	AICTE	Government	Electronics & Communicaitons Engineering	2019-20	17.25	2 Years
10	Dr.Ch.Bala Swamy (PI)	AICTE	Government	Electronics & Communicaitons Engineering	2019-20	3.22	2 Years

11	Dr.M.Siva Kumar (PI)	AICTE	Government	Electrical & Electronics Engineering	2019-20	3.86	2 Years
12	Dr.M. Babu Rao (PI)	AICTE	Government	Computer Science Engineering	2019-20	4.40	1 Year
13	Dr. Ch. Kavihta (PI)	AICTE	Government	Information Technology	2019-20	4.35	1 Year
14	Dr. MRCh Sastry	AICTE	Government	Mechanical Engineering	2017-18	3.00	1 Year
15	Dr. Jawahar Babu Angalakuditi (PI)	AICTE	Government	Mechanical Engineering	2017-18	5.00	2 Years
16	Sri. P. Tejomurthi (PI)	UGC	Government	Mechanical Engineering	2017-18	2.30	2 Years
17	Dr. S. Ramesh Babu (PI)	UGC	Government	Master of Business Administration	2017-18	1.25	2 Years


 IQAC
 IOAC


 Principal
PRINCIPAL
Seshadri Rao
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village
Gudlavalleru - 521 356, Krishna District. A.P.

ATAL workshop on Internet of Things



REPORT
ON
INTERNET OF THINGS

Date: 7th – 11th Dec 2020, Gudlavalleru Engineering College

ATAL workshop on Internet of Things

INTERNET OF THINGS WORKSHOP

INTERNET OF THINGS 5-Days AICTE sponsored workshop was conducted from 7th to 11th December 2020 in which 199 participants from different parts of the country participated.

The speakers for the 5-day workshop on “INTERNET OF THINGS” were:

Er. Vikas Murali Kyatsandra, Principal Design Engineer, ARM, Bengaluru



Education

- MBA from University of Chicago
- M.E.(Microelectronics) from RMIT University
- B.E.(ECE) from VTU, Bangalore

Experience

- Total: 13+ Years of industrial experience

Dr. Kota Solomon Raju, Sr. Principal Scientist & Group Leader, CSIR-CEERI, Pilani, Rajasthan



Education

- Ph.D. from IIT Roorkee
- M.E. from BITS Pilani
- B.E. from Andhra University

Experience

- Total: 21+ years of Industrial and research experience

Dr.M. Kamaraju, Prof. & Mentor, ECE Dept., Gudlavalleru Engineering College, Gudlavalleru



Education

- Ph.D. from JNTU, Hyderabad
- M.E. from Andhra University
- B.E. from Andhra University

Experience

- Total Teaching Experience: 26 years
- Industrial Experience: 1 year

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Dr. Sachin Chaudhari, Assistant Professor, IIIT Hyderabad



Education

- D.Sc. (Tech) from Aalto University (formerly TKK), Finland.
- M.E. from IISc, Bangalore.
- B.E. from VNIT, Nagpur.

Experience

- Total Teaching Experience: 6 years
- Industrial Experience: 4 years

Dr. Lakshmi B, Professor, Dept. of ECE, NIT, Warangal



Education

- PhD from IIT Kharagpur.
- M.Tech.
- B.Tech.

Experience

- Currently working as Professor in ECE department at NIT, Warangal.

Dr. Eswaramoorthy K V, Faculty of Electronics Engineering IIITDM-Kurnool, IIITDM-Kancheipuram Campus, Chennai



Education

- PhD from IISc, Bangalore
- M.Tech. from VIT, Vellore
- B.E. from Anna University, Chennai

Experience

- Teaching - 8+ Years
- Research - 1+ Years
- Industry - 2+ years

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Prof. KVSG Muralikrishna, Professor of Civil Engineering & DIRECTOR Green Campus Initiatives, JNTUK, Kakinada.



- Professor of Civil (Environmental) Engineering & DIRECTOR Green Campus Initiatives Jawaharlal Nehru Technological University
- Founder Principal, University College of Engineering, UCEN JNTUK, Narasaraopet, AP, India
- Member SEAC [State Experts Appraisal Committee for A.P.]
- Expert for Technical & Economic Appraisal HPCSAC

Awards

- Best Teacher Awardee-2015 by Govt. of Andhra Pradesh, India

Mr. Bhavani Shankar Surabhi, Executive Manager at Efftronics Systems Pvt. Ltd., Vijayawada



Development Projects Involved

- Smart Railways
- Smart Cities
- Smart Buildings
- IoT Solutions for Industries

Experience

- Executive Manager, R&D : Since Dec 2012
- Project Manager, R&D : Dec 2011 – Dec 2012
- Project Lead, R&D : Jul 2010 – Nov 2011
- Embedded Engineer : Aug 2006 – Jun 2010

Dr. Pathipati Srihari, Associate Professor, ECE, NIT, Surathkal, Karnataka.



Education

- PhD from Andhra University, Visakapatnam
- M.S. from University of Plymouth, England, UK
- B.Tech from SV University, Tirupathi

Experience

- Total Seventeen years of teaching and research experience.
- Currently working at National Institute of Technology Karnataka (NITK), Surathakal.

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Er. Rama Krishna.K, Senior Design Engineer, Xilinx.



- Expertise in Embedded Linux, Kernel programming, Device drivers.
- Currently working as Senior Design engineer in Xilinx.

Experience

- 14+ years of experience in Embedded software development in Embedded, Storage and networking domain

Er. Madhu.P, Director & Strategist, madBlocks Technologies Pvt. Ltd.



Experience

- madBlocks Technologies Pvt Ltd. Director - Marketing & Strategy
- Tech Strategist for 7 startups on IoT, & Drones.
- Mentor for Atal Tinkering Lab, NITI Ayog
- Trained/Mentored more than 180000+ students.
- Trained/Mentored more than 5000+ faculties.
- Conducted 500+ workshops/bootcamps.
- Visited 100+ colleges across India.
- Conducted 50+ Faculty Development Programs.
- Part of IoT Council, United Kingdom
- Part of IoT Software Group, Singapore
- Certified by RCSA, Canada
- Certified by IRC, Japan

Er. Ramakrishna Dutt CH G, Staff Software Engineer - Embedded Systems, Enphase Solar, Bangalore.



- Currently working on Developing & Automating Embedded API's for Solar based Gateway product that has complete solution for Roof Top based Solar Inverter.
- Visited the USA, New Zealand, Singapore on Official visits for making Design requirements of the projects..

Experience

- 10+ years together in Academic & Industry.

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Er. Anil Kumar.B, Technical Manager, Germany.



- Embedded developer for Industrial camera systems.
- Promoted to Technical Sales Manager for key accounts in Automotive sector.
- Work profile involves supporting customers in architectural level of integrating SerDes devices in system level of customers.

Dr. Kota Naga Srinivasa Rao Batta, Assistant Professor, ECE, NIT, Warangal.



Education

- PhD from IIT, Kharagpur
- M.Tech. from IIT, Kharagpur

Experience

- Total 11+ years of teaching and research experience.

ATAL workshop on Internet of Things

Program schedule of the workshop:

A 5 Day National Level Online AICTE Training And Learning Academy (ATAL) Sponsored

Faculty Development Programme On

Internet of Things (IoT)

7th - 11th December 2020.

Organized by

Department of Electronics and communication Engineering

Programme Schedule



	Inaugural Function	Session 1	Session 2	Session 3	Validictory Function
Date	9.00AM - 10.00AM	10AM - 11.30AM	11.30AM - 1.00PM	2.00PM - 3.30PM	3.30PM - 4.30PM
7 th Dec 2020	Keynote Address by Chief Guest, Er. Vikas Murli Kyatsandra, Principal Design Engineer, ARM, Bangalore	Dr. K. Solomon Raju, Senior Principal Scientist & Group Leader, Societal Electronics Group, CSIR-CEERI, Pilani System Design Issues for Internet of Things (IoT) Applications	Dr.M.Kamaraju, Professor & Mentor (AS&A), Gudlavalleru Engineering College, Gudlavalleru Introduction to Embedded Systems: IoT	Dr. Sachin Chaudhari, Associate Professor, IIIT Hyderabad Signal Processing and Machine Learning for IoT applications	---
8 th Dec 2020	---	Dr.B.Laxmi, Professor, ECE, NIT, Warangal IoT Communication Protocols	Dr.Eswaramoorthy K V, Faculty of Electronics Engineering IIITDM- Kurnool, IIITDM-Kancheperum Campus, Chennai Powering IoT Devices	Dr. KVSG Murali Krishna, Professor of Civil Engineering & DIRECTOR Green Campus Initiatives Jawaharlal Nehru Technological University, Kakinada Leadership, Human Values and Ethics	---
9 th Dec 2020	---	Er. Bhavani Shankar.S, Executive Manager, Efftronics Systems Pvt. Ltd., Vijayawada IoT Edge Processing	Dr.P.Srihari, Associate Professor, ECE, NIT, Surathkal, Karnataka RADAR sensors for IoT applications	Er. Rama Krishna.K, Senior Design Engineer, Xilinx Data Caching for IoT Networks	---
10 th Dec 2020	---	Er Medhu.P, Director & Strategist, madBlocks Technologies Pvt Ltd IoT Application Development using Raspberry Pi, Python Case Study1: IoT Weather Monitoring System using Thingspeak IoT Cloud Case Study2: IoT Smart Bulb using Thingspeak IoT Cloud and Android App Case Study3: Agricultural & Soil Prediction Analysis using IoT and Machine Learning			---
11 th Dec 2020	---	Dr B.K.N.Srinivasa Rao, Assistant Professor, ECE, NIT, Warangal Machine Learning For IoT Applications	Er. Ramakrishna Dutt CH G, Software Engineer - Embedded Systems, Enphase Solar, Bangalore IoT - Solar Power Application	Er. Anil Kumar.B, Technical Sales Manager, Germany IoT Trends in Automotive Industry	Validictory Function

ATAL workshop on Internet of Things

Department of ECE organized a 5 - Day National Level AICTE Training and Learning (ATAL) Academy Sponsored Online Faculty Development Programme (FDP) On Internet of Things (IoT) during 7th - 11th, December 2020 in a grand way.

Coordinator of the FDP Dr. M. Kamaraju, started the inaugural session with opening remarks followed by speech from the Vice-Principal, Academics, Dr. M. R. Ch. Sastry, Vice-Principal, Administration, Dr. P. Kodanda Rama Rao and Principal, Dr. GSNRV Prasad. Er. Vikas Murli Kyatsandra, Principal Design Engineer, ARM, Bangalore was invited as Chief Guest and keynote address speaker on the inaugural function.

Thirteen resource persons among whom six were from industry and seven from academics shared their knowledge by delivering their talk on different topics related to IoT during five days of FDP. A total of 14 technical sessions and one session on Leadership, Human Values and Ethics were organized.

On the first day, first session was taken by Dr. K. Solomon Raju, Senior Principal Scientist & Group Leader, Societal Electronics Group, CSIR-CEERI, Pilani on the topic “System Design Issues for Internet of Things (IoT) Applications”, second session was taken by Dr. M. Kamaraju, Professor & Mentor (AS&A), Gudlavalluru Engineering College, Gudlavalluru, on the topic “Introduction to Embedded Systems: IoT”, third session was taken by Dr. Sachin Chaudhari, Associate Professor, IIIT Hyderabad, on the topic “Signal Processing and Machine Learning for IoT applications”,

On the second day first session was taken by Dr. B. Laxmi, Professor, ECE, NIT, Warangal on the topic “IoT Communication Protocols”, second session was taken by Dr. Eswaramoorthy K V, Faculty of Electronics Engineering IIITDM-Kurnool, IIITDM-Kancheipuram Campus, Chennai, on the topic “Powering IoT Devices”, third session was taken by Dr. KVSG Murali Krishna, Professor of Civil Engineering & DIRECTOR Green Campus Initiatives, Jawaharlal Nehru Technological University, Kakinada, on the topic “Leadership, Human Values and Ethics”,

On the third day first session was taken by Er. Bhavani Shankar S, Executive Manager, Efftronics Systems Pvt. Ltd., Vijayawada, on the topic “IoT Edge Processing”, second session was taken by Dr. P. Srihari, Associate Professor, ECE, NIT, Surathkal, Karnataka on the topic “RADAR sensors for IoT application” third session was taken by Er. Rama Krishna K, Senior Design Engineer, Xilinx on the topic “Data Caching for IoT Networks”

On the fourth day all the three sessions was taken by Er Madhu P, Director & Strategist, madBlocks Technologies Pvt Ltd. on the topic “IoT Application Development using Raspberry Pi, Python” and

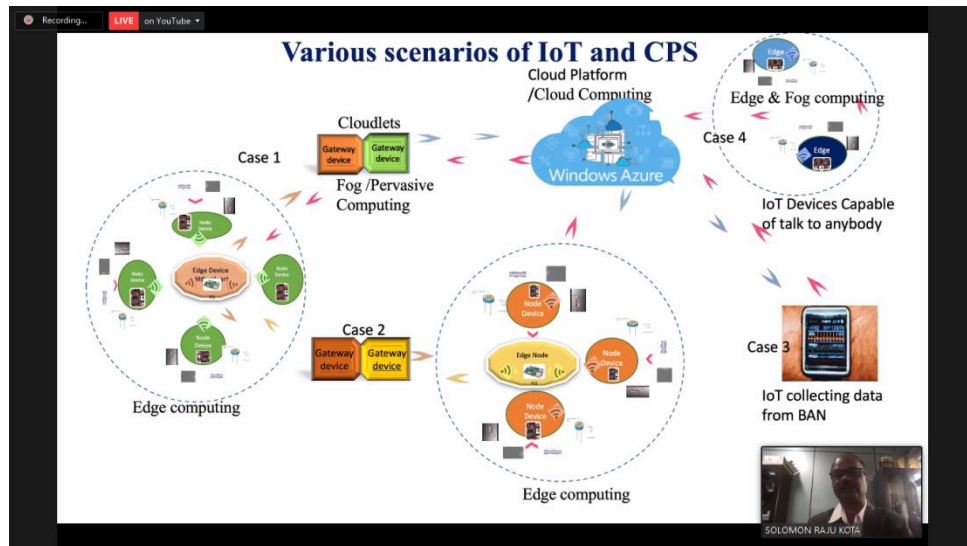
On the fifth day first session was taken by Dr. B.K.N. Srinivasa Rao, Assistant Professor, ECE, NIT, Warangal on the topic “Machine Learning For IoT Applications”, second session was taken by Er. Ramakrishna Dutt CH G, Software Engineer - Embedded Systems, Enphase Solar, Bangalore, on the topic “IoT - Solar Power Application”, third session was taken by Er. Anil Kumar B, Technical Sales Manager, Germany, on the topic “IoT Trends in Automotive Industry”.

A total of 199 Participants from 18 states were registered and got benefitted out of this FDP. On the last day of FDP Valedictory function was organized in which Coordinator of the FDP Dr. M. Kamaraju, presented closing remarks followed by participants shared their feedback regarding the experts and content delivered by the experts in the FDP.

ATAL workshop on Internet of Things

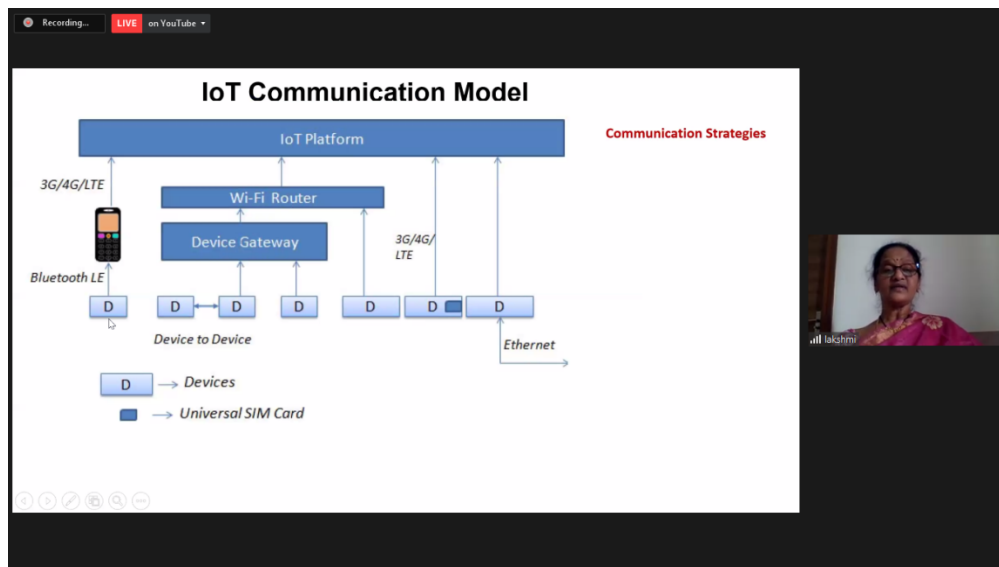
Screen Shots of the Programme

Day 1 (7th Dec 2020)



Dr. K. Solomon Raju, Senior Principal Scientist & Group Leader, Societal Electronics Group, CSIR-CEERI, Pilani, delivering lecture during Session 1 of Day 1 (7.12.20)

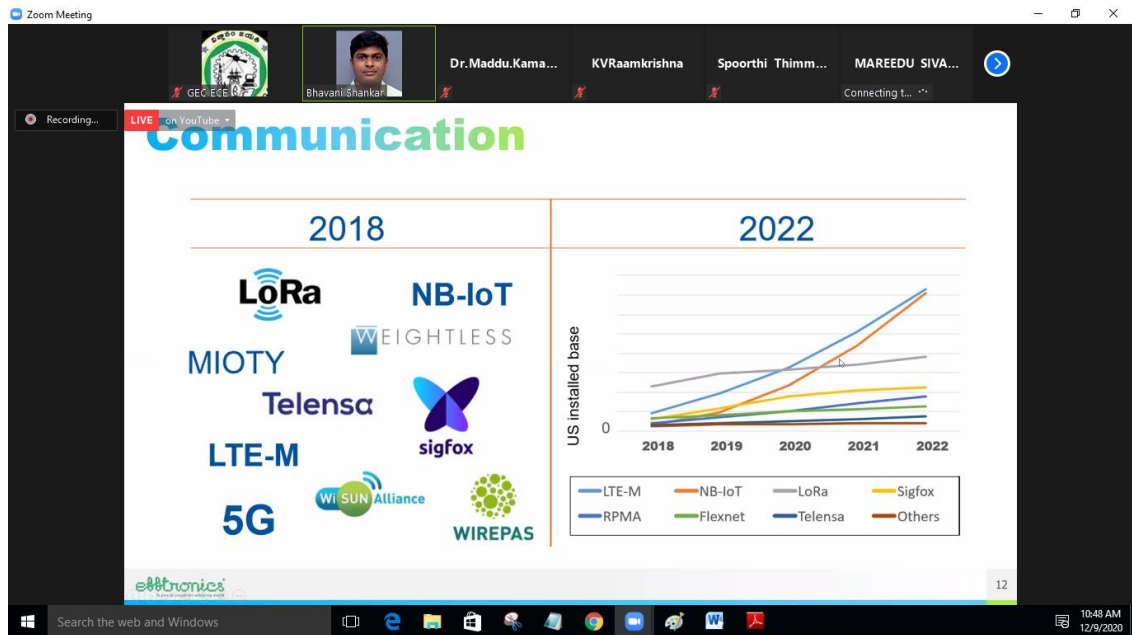
Day 2 (8th Dec 2020)



Dr.B.Laxmi, Professor, ECE, NIT, Warangal, delivering lecture during Session 1 of Day 2 (8.12.20)

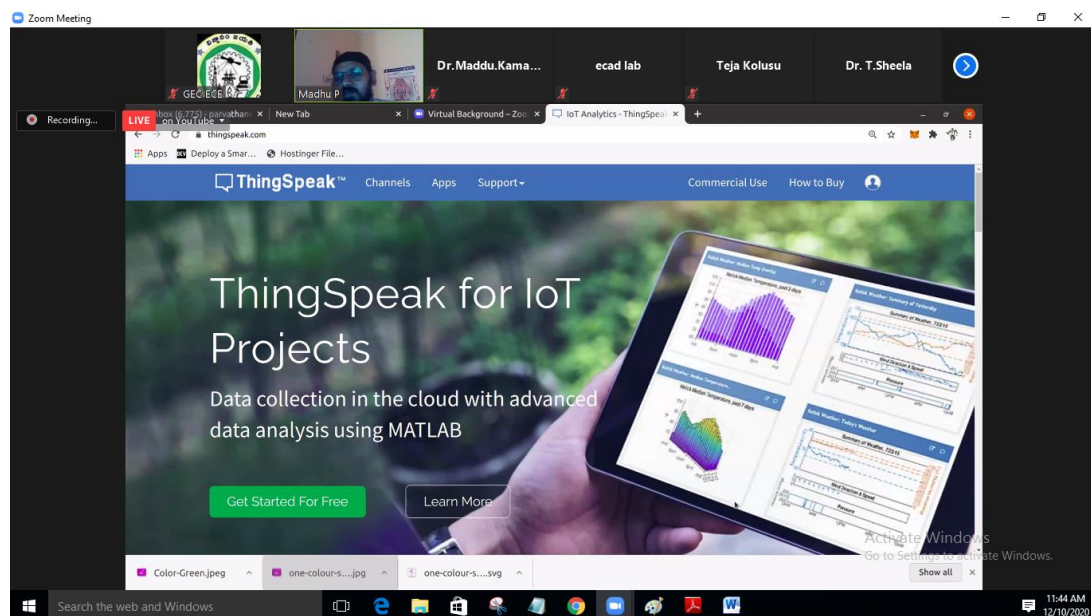
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Day 3 (9th Dec 2020)



Er. Bhavani Shankar S, Executive Manager, Efftronics Systems Pvt. Ltd., Vijayawada, delivering lecture during Session 1 of Day 3 (9.12.20)

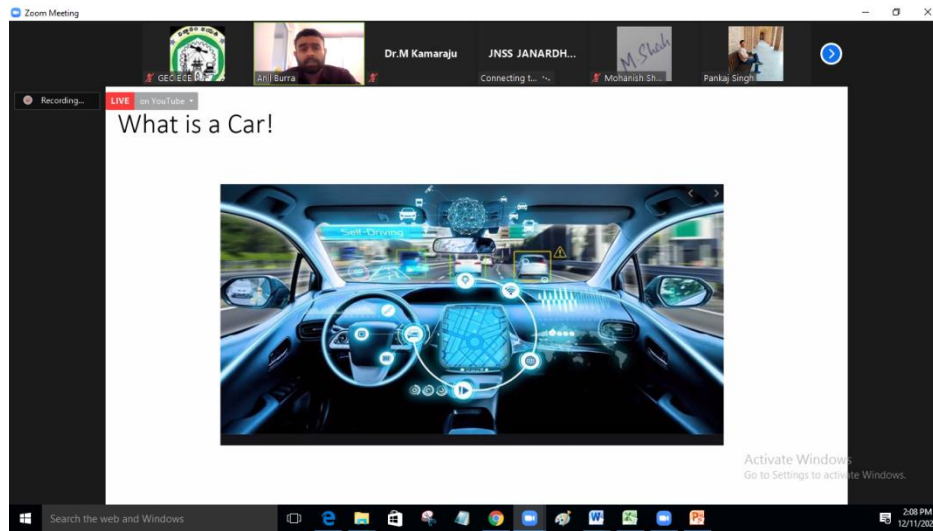
Day 4 (10th Dec 2020)



ErMadhuP, Director & Strategist, madBlocks Technologies Pvt Ltd, delivering lecture during Day 4 (10.12.20)

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Day 5 (11th Dec 2020)

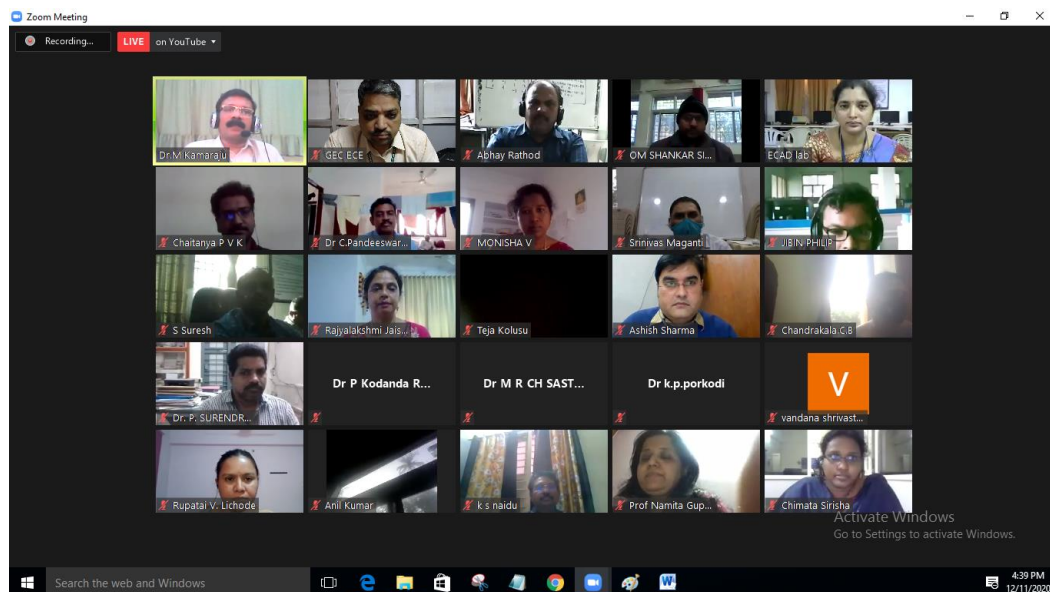


Er. Anil Kumar B, Technical Sales Manager, Germany, delivering lecture during Session 3 of Day 5 (11.12.20)



Participants giving feedback on the ATAL FDP on IoT during valedictory function (11.12.20)

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Participants group photo during valedictory function (11.12.20)

List of participants:-

S. No.	Name	Email	Phone	Institute
1	Dr. B Rajasekhar	surajb2000@gmail.com	9849128005	Gudlavalleru Engineering College
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ATAL workshop on Internet of Things

				TECHNOLOGY
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It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online workshop and for content.

REPORT OF THE PROGRAM

Name of the Program: One week AICTE-ISTE sponsored online Induction Program on **Millimeter - Wave Frequencies**

Reference Number: ISTE/AICTE-ISTE FDP1-3514171904/2018-19 Dated: 11.03.2020

Schedule of the Program: 16.03.2021 to 22.03.2021

Chief Guest of inaugural session: **Dr. N. V. S. N. Sarma,**
Director, IIIT, Tiruchirapalli

No. of participants: 54

No. of registrations: 89

Schedule of the Induction Programme

Date / Week Day	10.00 AM to 12.00 Noon		02.00 PM to 04.00 PM		04.15 PM to 06.00 PM
16.03.2021 Tuesday	Prof. NVSN Sarma, Director, IIIT Tiruchirapalli Innovative applications of Millimeter waves : Communications and beyond	L U N C H B R E A K	Dr. Mrinal Kanti Mandal, IIT Kgp PCB and on-chip antennas at Millimeter wave frequencies.	T E A B R E A K	Hands on Session HFSS Software Internal Resources
17.03.2021 Wednesday	Dr. Sulakshana Chilukuri Professor, Vardhaman College of Engg. Reconfigurable Antenna Design using HFSS		Dr. Sulakshana Chilukuri Professor, Vardhaman College of Engg. Reconfigurable Antenna Design using HFSS		Hands on Session HFSS Software Internal Resources
18.03.2021 Thursday	Swami Bodhamayanada, Director, VIHE, Hyderabad Stress Management		Dr. Mrinal Kanti Mandal, IIT Kgp Guiding structures at mm wave frequencies		Hands on Session HFSS Software Internal Resources
19.03.2021 Friday	Dr. B. T. P. Madhav Professor, K L University		Dr. Yalavarthy Usha Devi Professor, K L University		Hands on Session HFSS Software Internal Resources



	Advanced Antennas for Vehicular and Medical Communication Applications		Advanced Antenna Design Using HFSS	
20.03.2021 Saturday	Prof. L. Anjaneyulu, NITW mmWave Applications in Medical Diagnosis		Prof. L. Anjaneyulu, NITW mmWave Communications and Satellite Applications	Hands on Session HFSS Software Internal Resources
22.03.2021 Monday	Dr. Sulakshana Chilukuri Professor, Vardhaman College of Engg. Antenna Arrays Design using HFSS		Dr. Sulakshana Chilukuri Professor, Vardhaman College of Engg. Design of Metamaterial split Ring Resonator using HFSS	Online Test followed Valedictory

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System.

- Millimeter waves open up more spectrum and reduces the congestion on the current radio spectrum.
- There are several advantages of millimeter waves, such as large bandwidth, higher resolution, low interference, small component sizes, increased security, and cost-
efficacy.
- Today, a few electronic components were able to operate in millimeter waves; hence the millimeter wave's spectrum remained unused.
- However, this spectrum faces several challenges and acts as an obstacle for several players across industries.
 - The major challenge has been the travelling media due to the poor penetration attributed to atmospheric and free-space path loss.
 - Some of the challenges faced by millimeter waves include atmospheric absorption, free space loss, scattering of signal due to rain
 - Absorption increases at 24 and 60 GHz
 - Millimeter waves are blocked by physical objects such as trees and buildings, leading to signal loss and a reduced range

As a part of this one week online program, we have invited several eminent personalities working in this field across India. To our pleasure, we have three faculties from IITs, two faculty from NITs one faculty from IIIT, One retired scientist from DRDO as resource persons in this induction program. As per the guidelines of ISTE, one session should be conducted for stress management. In this regard, we have identified a psychiatrist who is an expert in conducting personality development programs.

The inaugural session is conducted during 09.00 am to 10.00 am with **Dr. NVSN Sarma, Director, IIIT, Tiruchirapalli**, as the chief guest of the function.

The image shows a formal invitation poster for a one-week online induction program. At the top, it features the logos of AICTE and ISTE, along with the name of Gudlavalluru Engineering College and its affiliation with JNTU, Kakinada. The text of the invitation is centered and reads: 'Cordially invites you to the inauguration of AICTE & ISTE Sponsored One Week Online Induction Programme ON "Millimeter Wave Frequencies" (Phase - II) 16 - 22 March 2021 At 9.30 am on 16.03.2021 through Zoom Meeting by Chief Guest Dr. N. V. S. N. SARMA Director, IIIT Tiruchirapalli'. Below this, there are two portrait photographs: the top one is of Dr. N. V. S. N. Sarma, and the bottom one is of Dr. G. V. S. N. R. V. Prasad, who is identified as the Resource Person for the Stress Management Program.

The following are the details of resource persons:

1. **Dr. NVSN Sarma, Director, IIIT, Tiruchirapalli,**
sarma@nitw.ac.in, 8702462412

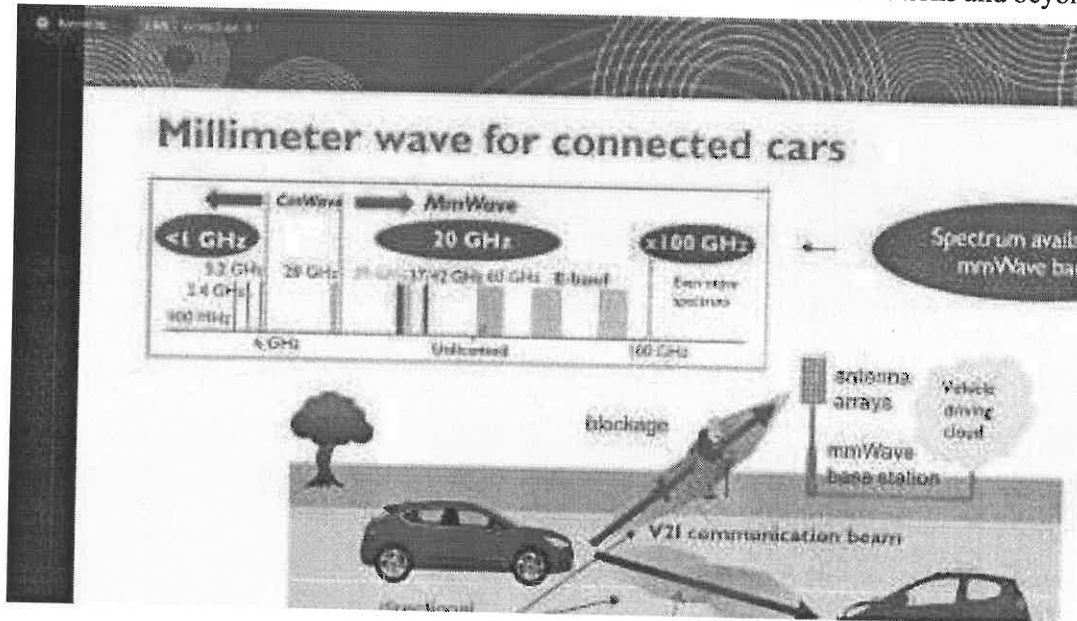
Brief Resume: Dr NVSN Sarma obtained his Masters and Doctoral degrees from Indian Institute of Technology, Kharagpur in the years 1985 and 1992 respectively after his Bachelor's degree in Engineering with specialization Electronics and Communications Engineering from JNTU College of Engineering, Kakinada, Andhra Pradesh in 1984.

He worked at Tata Institute of Fundamental Research, Mumbai for a brief period from Feb 1986 to July 1987.

He has been with the Department of Electronics and Communications Engineering at Regional Engineering College/National Institute of Technology, Warangal, India at various positions since 1990. He was Head of the department during Sept 2006 to Feb 2009 and again from Feb 2013 to Feb 2015. He was the Dean (Academic Affairs) of the institute during 2016 and 2017. His areas of interest include sensor networks, numerical electro-magnetics and antenna arrays.

He has been the recipient of Best Researcher Award of NIT Warangal for the year 2016. Six students were awarded with Doctorate degrees under his guidance. About 90 papers are at his credit in International and National journals and conferences. He visited USA, UK, Malaysia and Mauritius to present his papers and on some assignments. He delivered lectures at international universities and chaired sessions at international conferences. Presently, Dr. Sarma has been appointed as Founder Director of IIIT Tiruchirappalli.

Topics Covered: Innovative applications of Millimeter waves: Communications and beyond



2. **Dr. Mrinal Kanti Mandal, Associate Professor, IIT Kharapur, mkmandal@ece.iitkgp.ac.in, 9734092899**

Brief Resume: Dr. Mrinal Kanti Mandal obtained B. Tech. and M. Tech. degrees from the Institute of Radiophysics and Electronics, University of Calcutta in 2001 and 2003, respectively, and PhD degree from the department of Electronics and Electrical Communication Engineering, Indian Institute of Technology Kharapur in 2008. From 2007 to 2009, he worked as a Research Fellow in the Institute for Infocom Research, Agency for Science, Technology and Research, Singapore. **He also worked as a postdoctoral fellow in the University of Quebec in Montreal from 2009 of 2010 and in the Polytechnic School of Montreal from 20010 to 2012.** He joined IIT Kharagpur as a faculty of department of E and ECE in 2012, where he is presently serving as an associate professor.

Dr. Mandal is a senior member of IEEE (2013). He is in the editorial board of Wiley International Journal of RF and Microwave Computer-Aided Engineering. He was in the

board of organizing committee members of several international conferences including Asia-Pacific Microwave Conference – 2016. He obtained MHRD national scholarships for excellence in secondary and under graduate examinations.

He has authored or co-authored over 110 journal and conference papers including 40 in different IEEE journals in the domain of microwave and millimetre-wave circuits and systems. He has also filed 11 patents. His present research interest is co-design of active and passive components and their application in reconfigurable antennas, millimetre-wave imaging systems, beam forming networks, Doppler radars and six-port receiver.

Topics Covered: PCB and on-chip antennas at Millimeter wave frequencies.

Guiding structures at mm wave frequencies



3. Prof. L. Anjaneyulu, Professor and Head, NIT Warangal

anjan@nitw.ac.in, 8332969355

Brief Resume: Prof. L. Anjaneyulu completed B. Tech in 1989 from Nagarjuna University, M. Tech in 1991 from NIT (then Regional Engineering College) Warangal. He completed PhD also from the same institute in the area of Radar Signal processing.

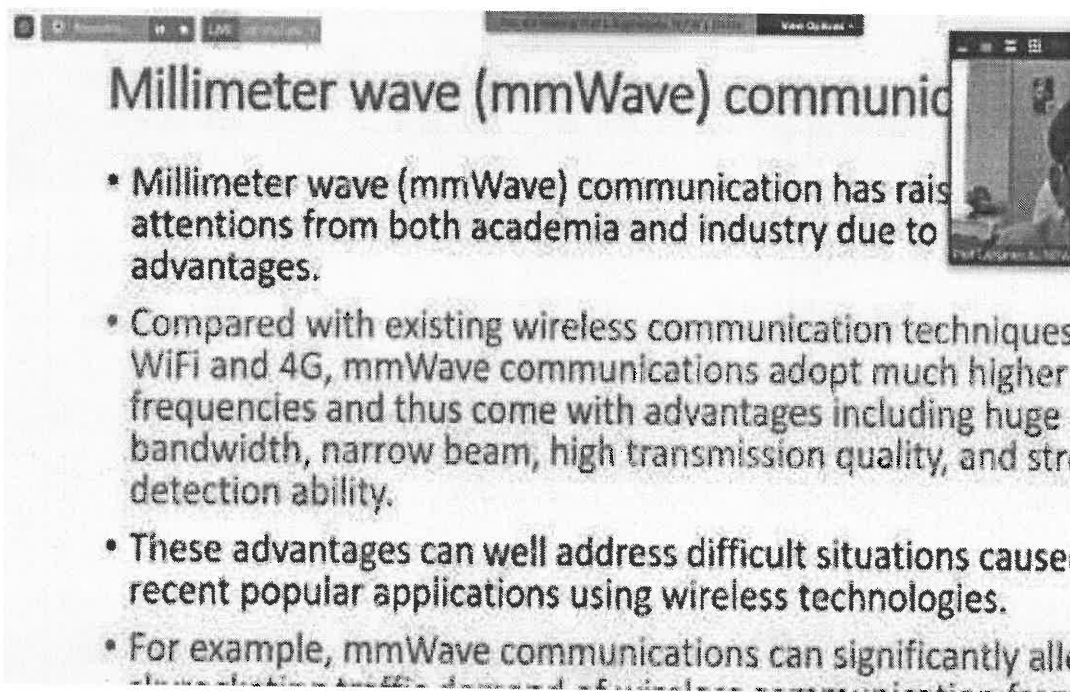
Prof. L. Anjaneyulu Worked as Project Officer at Institute of Armament Technology (Now Defence Institute of Armament Technology), PUNE of Defence Research & Development Organisation (DRDO), and involved in the Design and Development of Airborne and Surface borne RADAR Systems during 1991 – 1995.

He Worked as Staff Scientist at Helios systems, Madras , and involved in the development of software modules for RADARs of Indian Navy's War Ships for Radio wave propagation assessment during 1995 - 1997

Since 1997, he is With Department of ECE, NIT, Warangal and currently he is the Head of ECE department. So far he is having a total teaching experience of 23 years and 6 years of R&D

Prof. L. Anajaneyulu Published 50 research papers in International Journals, 45 papers in International IEEE conferences. He has guided 4 PhDs successfully and three more PhD works are going on.

Topics Covered: mmWave Applications in Medical Diagnosis
mmWave Communications and Satellite Applications



4. Swami Bodhamayanada, Director, VIHE, Hyderabad

Brief Resume: swami bodhamayananda is director at vivekananda institute of human excellence ramakrishna math, domalguda, hyderabad

swami bodhamayananda is inspired by the teachings of sri ramakrishna and swami vivekananda during his school days, swami bodhamayananda joined the ramakrishna order in bangalore in 1984 and was initiated into monastic vows in 1993. after initial training, he served the mission in hyderabad, visakhapatnam and chennai between 1989 and 2010 and was involved in various youth activities during that period.

swami bodhamayananda has so far conducted more than 1000 workshops & seminars covering about 6 lakh students, teachers, managers and others on "human excellence, management and personality development" in schools, professional colleges and many corporates in tamil nadu, karnataka, andhra pradesh, telangana, kerala, maharashtra, new

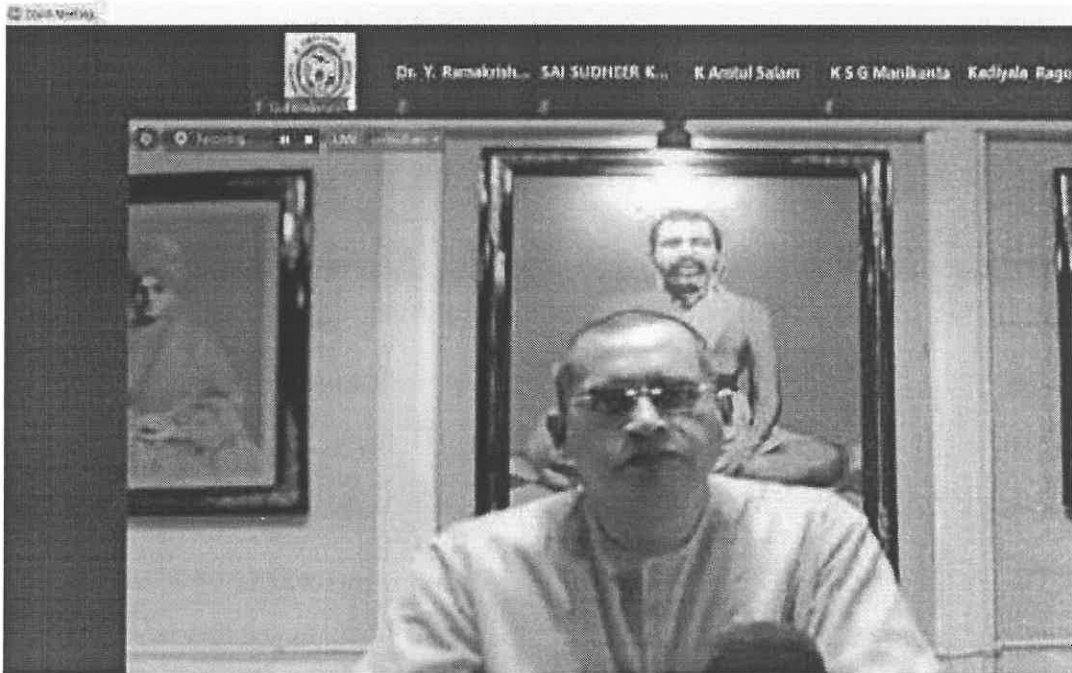
delhi, kolkata and few other places in india during the last decade. he has also addressed scientists at abdul kalam research centre imarat, isro bangalore, advocates of andhra pradesh & telangana high court hyderabad, executives of bhel, h.a.l. & b.d.l.

He has authored a book titled “mind and modern problems” in english and “yuva jagruti” in telugu published by ramakrishna math, Hyderabad.

At the ramakrishna math, hyderabad, he has taken the initiative to encourage, recognize and appreciate the leadership qualities amongst the youth by organizing a youth movement called “swami vivekananda yuva jagruti vedika.”

swami bodhamayananda’s discussion and talks on personality development and the message of swami vivekananda are uploded in youtube - “rise and shine” in hmtv channel and telecasted every sunday at 11.30 am in tv5 (hindu dharmam) telugu channel for the benefit of the youth.

Topics Covered: Stress Management



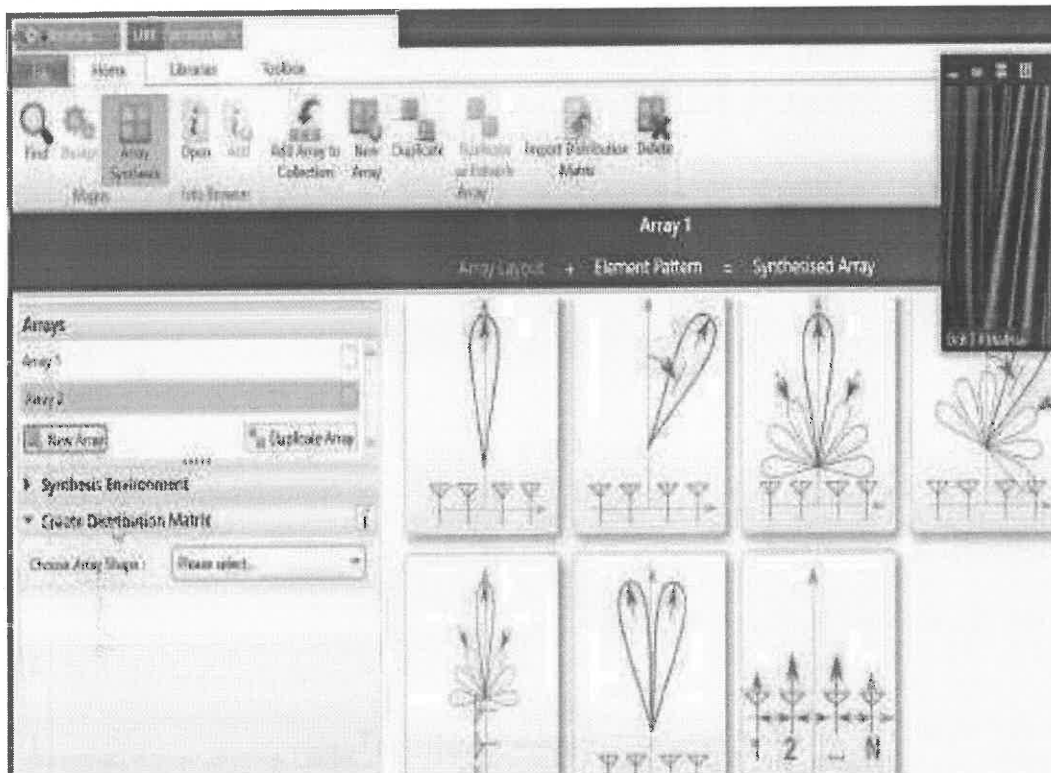
5. Dr. B. T. P. Madhav, Professor, K L deemed to be University

btpmadhav@kluniversity.in, 9908243452, 8008940999

Brief Resume: Indian Book of Records and Asia Book of Record Holder—Youngest Professor with Highest Number of Publications, Young Scientist & ECR Awardee. Distinguished Scientist Award Holder, Distinguished Researcher Award Holder

- 1) **No. of Sponsored Projects Completed:** 4 (worth of 123 Lakhs)
- 2) **No. of Sponsored Projects ongoing:** 2 (worth of 107 Lakhs)
- 3) **No. of Projects Applied:** 2 (Worth of 3.8 Crores)
- 4) **Total Number of Research Publications:** 486
- 5) **Scopus/SCI Indexed Journals Published:** 324
- 6) **H-Index:** 31, **I10-Index:** 92, **Citations:** 3270
- 7) **Professional Memberships:** 8
- 8) **Reviewer for Journals:** a) IET Microwaves and Antennas & Propagation, b) IJE (Taylor and Francis, c) IJMWT (Cambridge University), d) JESTEC (Taylor's University), e) WPS (Springer), f) JESTCH(Elsevier), g) IJECE-AUE(Elsevier) h) IEEE Access, i) International Journal of RF and Microwave Computer-Aided Engineering, j) Results in Physics, k) Ain Shams Engineering(Elsevier), l) Microelectronic Engineering(Elsevier), m) PIER, n) Applied Computational Electromagnetics Journal, o) International Journal of Antennas and Propagation, p) MOTL, q) IEEE AWPL, r) Optik and 6 more
- 9) **Editorial Board Member:** 46 International Journals
- 10) Workshops and refresher courses attended: 28
- 11) **Workshops conducted:** 18
- 12) FDP's Conducted: 13
- 13) **Conferences attended:** 32, **Session Chair & Co-Chair:** 4, **Keynote:** 2
- 14) **Conferences conducted as coordinator:** 4
- 15) **Technical Program Committee member for Conferences:** 4
- 16) **Guest Lectures delivered:** 52, **E-Content/Topics in Social Media:** 62
- 17) **M.Tech/B.Tech Projects Guided:** 52
- 18) **Ph. D Scholars:** 07(1 Full Time+1 JRF+1 NDF Scholar+4 Part time)
- 19) **Ph. D Awarded:** 03, **Submitted:** 03
- 20) **Research topics of Interest:** RF-Microwave and Antennas, Liquid Crystals Applications, Image Processing

Topics Covered: Advanced Antennas for Vehicular and Medical Communication Applications



6. Dr. Yalavarthy Usha Devi, Associate Professor, K L deemed to be University

ushadevi.yalavarthi@gmail.com, +919133241111

Brief Resume: Subjects Taught at UG/PG Level:

Microprocessors and Microcontrollers, Embedded Systems, Embedded and Real-Time Systems, Antennas and Wave Propagation, Microwave Engineering, Electronic Devices and Circuits, Linear IC Applications, Digital System Design, Computer Organization and Architecture, Satellite Communications, Cellular and Mobile Communications, Data Communications, WSN and IoT Applications, IoT Applications for Smart Cities, Embedded Systems Design, Embedded C and Embedded Networking.

Design Skills:

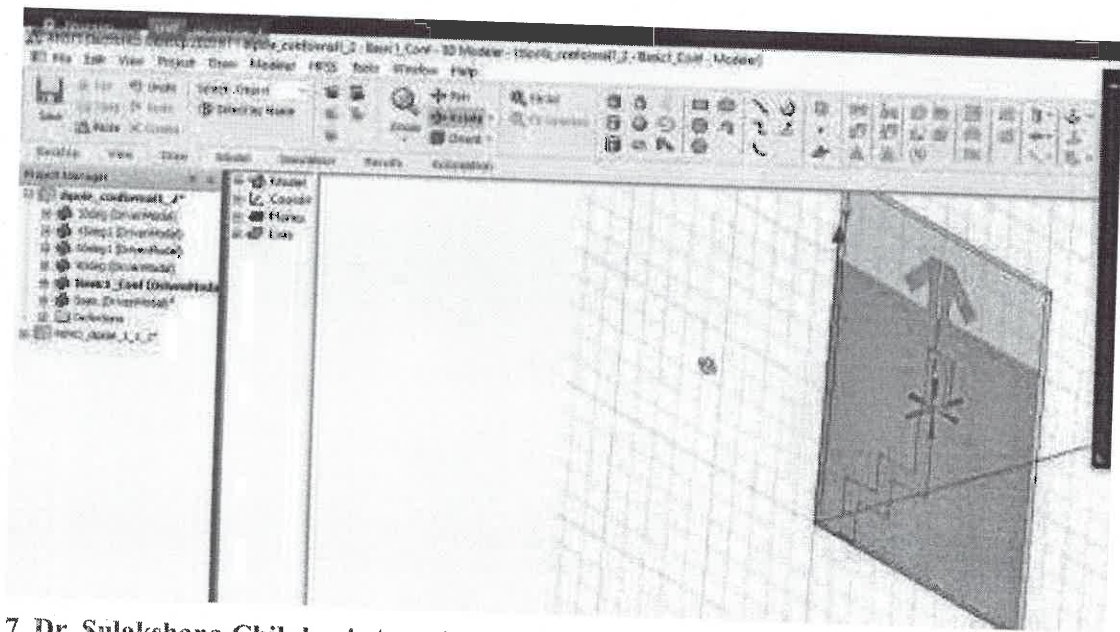
MATLAB, Multisim, Pspice, Ansys HFSS, Logisim, CST, Ansys Savant, EMIT, NS2 (Beginner)

Hardware Boards:

Arduino, NodeMCU, Raspberry Pi

Research topics of Interest: RF-Microwave and Antennas, Embedded Networking, IoT Applications, Intelligent Edge.

Topics Covered: Advanced Antenna Design Using HFSS



7. Dr. Sulakshana Chilukuri, Associate Professor, Vardhaman College of Engineering

sulakshana@vardhaman.org, 9398105540

Brief Resume: Dr. Sulakshana Chilukuri received the Bachelor's degree in Electronics and Communication Engineering from G. Narayanamma Institute of Technology and Science, Hyderabad, India, in 2007, the Master's degree in Electronics and Communication Engineering with Communication Systems specialization from **National Institute of Technology, Tiruchirappalli**, Tamilnadu, India in 2010 and received her Ph.D. degree in Electronics and Communication Engineering from **National Institute of Technology Warangal**, Telengana, India in 2016 and worked as **Post-doc research fellow at University of West of Scotland, UK, 2017.**

Currently she is working on Multi-band Antennas, Wearable Antennas, Pattern Diversity Antennas, and Small Scale Antennas for Satellite Applications, Meta material Loaded Antennas. She has 10 Years of total experience in Research in the field of Antennas. She is a member of IEEE and MTT-S Student chapter faculty advisor & UNISEC India Student Chapter Faculty Advisor in Vardhaman college of Engg. She is also playing various roles in the department as R&D coordinator, IIRS Outreach Program Coordinator at institute level. She has published her work in 12 International Journals, out of which 7 are SCI, 2 E-SCI, others peer reviewed journals. She presented her work in 18 International conferences sponsored by IEEE in different countries Malaysia, Israel, Hungary, Sri Lanka, Spain and have 22 conference publications. Received best paper award in 9th International Conference on Mechanical and Aerospace Engineering, Budapest in 2018. She has shared her knowledge as resource person and gave expert lectures in various Faculty Development Programs (in NIT Warangal), International conference (at Bangalore ITCA conference) and IEEE Student Symposium conducted by All India Council and in various FDPs.

She is the Reviewer for the following International Journals and Conferences

WR

ANNEXURE –VIII

FORMAT for PROJECT COMPLETION REPORT FOR MODROBS PROGRAMME

- File No.** : F.No.9-87/IDC/MODROB/Policy-1/2019-20
(As mentioned in sanction letter)
- Date of Sanction** : 20-07-2020
- Subject Area** : **Big Data Analytics**
1. Project Coordinator : **Dr. Narayana Satyala**
(Name and address) : Professor
Department of Computer Science and
Engineering
Gudlalleru Engineering College
Seshadri Rao Knowledge Village
Gudlalleru – 521 356
Krishna District, Andhra Pradesh
2. Project Title : **Modernization of Database Lab**
3. Date of Commencement of the Project : **22-09-2020**
4. Duration of the Project : **2 Years**
5. Date of Completion : **21-09-2022**
6. Amount Sanctioned by AICTE : **Rs. 11,65,294/-**
7. Objectives of the Project :
- To enhance the knowledge base of students in Big data analytics.
 - To provide hands on experience on SPSS and its features, in particular how to code raw data of a new dataset, perform quantitative analysis, interpret, and report the results.
 - To select and use SPSS descriptive statistics and data visualization commands for better understanding of data.
 - To provide students and researchers a facility to do projects in big data analytics and data science.

8. Details of Expenditure :

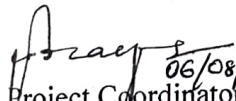
A. NON-RECURRING

S. No.	List of Equipment Procured	Cost
1	Dell PowerEdge R740 Server	7,88,978.00
2	LG 24" 24SP410M - TV Monitor	12,500.00
3	DELL – Tower Model – PowerEdge T40 Workstation	85,000.00
4	Netfox (NF-FM-42-600/1000) 42u 600/1000 depth rack	47,500.00
5	Bank RTGS charges	11.80
	Total	9,33,989.80

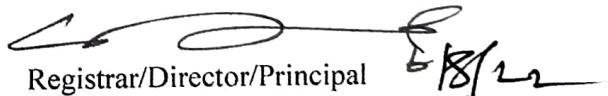
9. Future Plans for Utilizing the Equipment: and/ or Facilities Created.

- ✓ Using GPU based server students and faculty members can process huge amounts of data to discover interesting patterns as part of their project/research work.
- ✓ Using work station students and faculty members can create a hadoop cluster which is a special type of computational cluster designed specifically for storing and analyzing huge amounts of unstructured data in a distributed computing environment.
- ✓ Using SPSS software students and faculty members can visualize and analyze the data from different perspectives.
- ✓ Experiments related to this equipment are to be included in the new curriculum to strengthen the knowledge of students and faculty members in big data analytics and data science areas.

10. Whether There is Any Deviation from the Purposes for which: No Grant was Released. If so Details of Deviations to be Given.


06/08/2022
Project Coordinator
(Signature and Seal with date)

Professor
Dept. of Computer Science and Engineering
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village
GUDLAVALLERU - 521 356


Registrar/Director/Principal
(Signature and Seal with date)
PRINCIPAL
Seshadri Rao
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village
Gudlavalleru - 521 356, Krishna District. A.P.

ATAL workshop on Data Science



REPORT
ON
DATA SCIENCE

Date: 19th -23rd Jan 2021 , Gudlavalleru Engineering College

ATAL workshop on Data Science

DATA SCIENCE WORKSHOP

DATA SCIENCE 5-Days AICTE sponsored workshop was conducted from 19th to 23rd January 2021 in which around 150 participants from different parts of the country participated.

The speakers for the 5-day workshop on “DATA SCIENCE” were:

Dr.V.Sunil Kumar, Director-Data Science, Ericsson,Bangalore



Education

- Ph.D. from IIT Bangalore
- M.Tech.(IT) from IIT Roorkee
- B.Tech.(IT) from Gudlavalleru Engineering College

Experience

- Total: 16+ Years of industrial and research experience

Dr.P.Emmanuel Subhakar,Associate professor & Head, Dept. of CSE,MNIT,Jaipur,Rajasthan



Education

- Ph.D.(CSE) from IIT Roorkee
- M.Tech.(CSE) from BIT Ranchi
- B.Tech.(ECE) from Nagarjuna

Experience

- Total: 23 years of teaching, research and administrative experience

ATAL workshop on Data Science

Dr.G.Jaya Suma, Professor & Head, Dept. of CSE, JNTU, Vjzayanagaram



Education

- Ph.D.(Data Mining) from Andhra University
- M.Tech.(CS&T) from Andhra University
- B.Tech.(CS&SE) from Geetham University

Experience

- Total Teaching Experience: 16 years
- Industrial Experience: 2 years

Dr.T.Rama Krishnu, Assistant Professor, Dept. of CSE , NITW



Education

- Ph.D. National Institute of Technology, Warangal.
- M.Tech (CST), Andhra University, Visakhapatnam.
- B.Tech (CSE), Jawaharlal Nehru Technological University, Hyderabad.

Experience

- Total: 16 Years

ATAL workshop on Data Science

Dr.A.Chandra Sekhar Rao,Assistant Professor,Dept. of CSE,IIT(ISM), Dhanbad



Education

- Doctor of Philosophy (PhD) Indian Institute of Technology, Dhanbad. Department of Computer Science and Engineering .
- Master of Technology Andhra University, Vizag. Specialization is Information Technology with distinction.
- Bachelor of Technology Koneru Lakshmaiah College of Engineering, Guntur.

Experience

- 09/10 – Till Assistant Professor in Indian Institute of Technology(ISM), Dhanbad
- 12/07 - 08/10 Teaching Assistant in National Institute of Technology, Warangal
- 11/06 - 12/07 Assistant Professor in Vardhaman College of Engineering, Shamshabad

Mr.Sam Oguri, Director, Chegg India, Visakhapatnam



Education

- M.Tech from AU
- MBA from AU
- B.Tech from SVU

Experience

- Total: 20 years in managing Indian and Multinational companies which are in different levels of growth.

ATAL workshop on Data Science

Prof.KVSG Muralikrishna,Principal JNTUKCE,Narasaraopet



- Professor of Civil (Environmental) Engineering & DIRECTOR Green Campus Initiatives Jawaharlal Nehru Technological University
- Founder Principal, University College of Engineering, UCEN JNTUK, Narasaraopet, AP, India
- Member SEAC [State Experts Appraisal Committee for A.P.]
- Expert for Technical & Economic Appraisal HPCSAC

Awards

- Best Teacher Awardee-2015 by Govt. of Andhra Pradesh, India

Dr.K.ShahuChatrapathi, Professor & Head, CSE, JNTUHCE, Manthani, Telangana



Education

- Ph.D in Computer Science & Engineering(CSE) from Acharya Nagarjuna University in 2010.
- M.Tech in Computer Science & Engineering (CSE) from Andhra University College of Engineering Vishakhapatnam in the year 2002.
- B.Tech in Computer Science & Engineering
- (CSE) Acharya Nagarjuna University in the year 1999.

Experience

Total: 20 years

ATAL workshop on Data Science

The schedule of the workshop was as below-

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, Gudlavalleru-521356

DEPARTMENT OF INFORMATION TECHNOLOGY

ATAL Sponsored Faculty Development Program on “Data Science”
(19th – 23rd January 2021)

DAY	9.30-11.00 AM	11.00-11.30 AM	11.30-1.00 PM	1.00-2.00PM	2.00-3.30 PM	
	SESSION - I		SESSION - II		SESSION - III	
DAY 1 TUE (19.1.21)	Introduction to Data Science (Dr.V.Sunil Kumar, Director-Data Science, Ericsson, Bangalore)		Overview of Big Data Architecture (Dr.P.Emmanuel Subhakar, Associate Professor & Head, Dept. of CSE, MNIT, Jaipur, Rajasthan)		Technologies for Handling Bigdata (Dr.P.Emmanuel Subhakar, Associate Professor & Head, Dept. of CSE, MNIT, Jaipur, Rajasthan)	
DAY 2 WED (20.1.21)	09.00-10.00 AM	BREAK	Machine Learning Algorithms (Dr.G.Jaya Suma, Professor & Head, Dept. of CSE, JNTU, Vijayanagaram)	LUNCH	Machine Learning Algorithms (Dr.G.Jaya Suma, Professor & Head, Dept. of CSE, JNTU, Vijayanagaram)	
	Technologies for Handling Bigdata (Dr.P.Emmanuel Subhakar, Associate Professor & Head, Dept. of CSE, MNIT, Jaipur, Rajasthan)		Predictive Data Analytics (Dr.T.Rama Krishnudu, Assistant Professor, Dept. of CSE,NITW)		Evolutionary Algorithms- Application to Data Science (Dr.A.Chandra Sekhar Rao, Assistant Professor, Dept. of CSE, IIT(ISM),Dhanbad)	
DAY 3 THU (21.1.21)	Exploratory Data Analysis (EDA) (Dr.T.Rama Krishnudu, Assistant Professor, Dept. of CSE,NITW)		Deep Learning Techniques (Mr.Sam Oguri, Director, Chegg India, Visakhapatnam)		Stress Management Prof.KVSG Muralikrishna, Principal JNTUKCE, Narasaraopet	
DAY 4 FRI (22.1.21)	Deep Learning Techniques (Mr.Sam Oguri, Director, Chegg India, Visakhapatnam)		Applications of Data Science (Dr.V.Sunil Kumar, Director-Data Science, Ericsson, Bangalore)		Valedictory	
DAY 5 SAT (23.1.21)	Business Analytics (Dr.K.ShahuChatrapati, Professor & Head, CSE,JNTUHCE,Manthani,Telangana)					

ATAL workshop on Data Science

FDP was inaugurated on 19th Jan, 2021 by Dr.G.V.S.N.R.V.Prasad, Principal, Gudlavalleru Engineering College, Dr.P.Kodanda Ramarao, Vice-Principal Administration, Gudlavalleru Engineering College, Dr.M.R.Ch.Sastry, Vice-Principal Academics, Gudlavalleru Engineering College, Gudlavalleru, Dr.P.Ravindra Babu, Advisor to management, Gudlavalleru Engineering College, Dr.M.V.L.N.Raja Rao, Professor & Mentor, IT Dept, Dr. Ch.Kavitha, Coordinator of the FDP, HoD , IT Dept.

Mrs.P.Naga Sravanthi, Assistant Professor, IT Dept has welcomed all the dignitaries and delegates. In her welcome speech, she highlighted the importance and objectives of organizing this Faculty Development Program.

On this occasion, Dr.G.V.S.N.R.V.Prasad, Principal, Gudlavalleru Engineering College, in his address, described all the previous workshops being organized by the institute. This type of fdp makes the people from various institutes and eminent resource persons to join together to share their knowledge and promote research activities. He mentioned Data Science is one of the emerging Technology and knowledge acquired in this type of technologies may helps for publications and gives an ideas for future research works. He felt Happy to conduct this type fdps in our college and he congratulated all the principals who have sponsored their faculty for this FDP.

Dr.P.Kodanda Ramarao, Vice-Principal Administration, Gudlavalleru Engineering College, described the relation between Data Analytics and Data Science and the importance of this in Decision Making. He congratulated and encouraged the department to conduct this type of fdps.

Dr.M.R.Ch.Sastry, Vice-Principal Academics, Gudlavalleru Engineering College, Gudlavalleru, in his speech felt happy to be a part of the FDP and suggested the Faculty participants to make the best use of this opportunity of learning.

Dr. Ch.Kavitha, Coordinator of the FDP, HoD, IT Dept, in her address, welcomed all the dignitaries and Faculty participants and emphasized the following points – the importance of data science in research work and how it is important for a Faculty to be aware of all the emerging technologies, practical learning is as much important as the theoretical learning is. This is the sole responsibility of the teachers, who transmits their theoretical and practical knowledge to their academic circles and students. So, it is essential to develop an academician that is capable of early identifying the thrust areas of research.

ATAL workshop on Data Science

Some photos of the inaugural function are as below:-



ATAL workshop on Data Science



ATAL workshop on Data Science



ATAL workshop on Data Science



ATAL workshop on Data Science



The list of participants was:-

S.No	Name	Organization	Mobile	Email id
1	Dr. B Nancharaiah	Usha Rama College of Engineering and Technology	9866250010	nanch_bn@yahoo.com
2	Mr. Dasari Sekhara Babu	St.Marys Group of Institutions Guntur	8019492399	sekhardasari@stmarysgroup.com
3	Mr. Pardhasaradhi Chebrolu	St.Marys Group of Institutions Guntur	9951492388	pardhasaradhichebrolu@stmarysgroup.com

ATAL workshop on Data Science

4	Mrs. RAMADEVI MAKINENI	Malineni Perumallu Educational Society's Group of Institutions	9000838646	ramamakineni@gmail.com
5	Mr. Y Y NARAYANA REDDY	Malineni Perumallu Educational Society's Group of Institutions	8978667282	yynarayanareddy@gmail.com
6	Mr. K NAGABRAHMA CHARI	Malineni Perumallu Educational Society's Group of Institutions	9440474879	karne.nb@gmail.com
7	Miss Loya Lakshmi Praneetha	Gudlavalleru Engineering College	8179272988	l.l.pranitha64@gmail.com
8	Mr. Mohit Kumar	DVSIET Meerut	9045082209	March.mohit82@gmail.com
9	Mr. Anurag Upadhyay	G S College of Commerce and Economics (Autonomous) Jabalpur	9827722389	anurag.upadhyaya@gmail.com
10	Mr. CH.Venkateswara Rao	Gudlavalleru Engineering Collegee	9494946906	venky.chilamkurthi@gmail.com
11	Mr. SHAIK JILANI BASHA	PACE INSTITUTE OF TECHNOLOGY AND SCIENCES	9493358621	jilani_sk@pace.ac.in
12	Dr. Kotte Sowjanya	Kakatiya Institute of Technology & Science	9885189680	kotte.soujanya@gmail.com
13	Mr. P.V RAMA GOPALA RAO	SRI CHAITANYA TECHNICAL CAMPUS	9441825884	rao.ramagopal@gmail.com
14	Dr. P.J.S. Kumar	AKKINENI NAGESWARA RAO COLLEGE	9440535959	pjskumar@gmail.com
15	Mr. VINOD KUMAR YADAV	GOVERNMENT POLYTECHNIC AURAI, BHADOHI	9451611568	vinoditgov@gmail.com
16	Mr. KONDURU KRANTHI KUMAR	GUDLAVALLERU ENGINEERING COLLEGE	9985372152	kk97976@gmail.com

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17	Mr. PRADEEP VENUTHURUMILLI	St.Mary's womens Engineering college	9849250840	pradeepvenuthuru@gmail.com
18	Miss PARASA RAJYA LAKSHMI	GUDLAVALLERU ENGINEERING COLLEGE	8074435769	parasa.raji@gmail.com
19	Mrs. Chalalamalasetty Sarvani	Gudlavalleru Engineering College	8186083767	ch.sarvani2010@gmail.com
20	Mr. N S SATYANARAYANA YEEMANI	Gudlavalleru Engineering College	8019964724	sathya.yeemani@gmail.com
21	Mrs. Allada Koteswaramma	Gudlavalleru Engineering college	7416761317	koteswari.1201@gmail.com
22	Mrs. ANITHA RANI PALAKAYALA	ST.MARY'S GROUP OF INSTITUTIONS GUNTUR	9000839339	anitha.palakayala@gmail.com
23	Mrs. Kavya Nikeeta Pathi	Raghu Institute of Technology	7842357433	kavya.nikeeta@gmail.com
24	Mr. M M BALAKRISHNA	ST MARY'S WOMENS ENGINEERING COLLEGE	9848231282	balakrishna2508@gmail.com
25	Dr. Gudapati Syam Prasad	narasaraopet engineering college	9989834447	syamprasad.gudapati@gmail.com
26	Mr. D BHANU MAHESH	CVR COLLEGE OF ENGINEERING	9441225430	dbhanumahesh@gmail.com
27	Mr. J.Peter Praveen	K L university	9949865863	jppraveen17@kluniversity.in
28	Mr. Yallamanda Challa	Sir C R Reddy College Of Engineering, Eluru	7093388457	challa.ynaidu@gmail.com
29	Dr. hemadivya kantamaneni	Koneru Lakshmaiah Educational foundation (K L University)	8712741324	divya8955@gmail.com
30	Mrs. Adepu Vijaya	Kakatiya Institute of Technology and Science,Warangal	7702989822	adepuvijaya1@gmail.com

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31	Mrs. Potturi Reshma	Gudlavalleru engineering college	9515406309	reshmapothuri@gmail.com
32	Mr. Khushal Khairnar	Marathwada Mitra Mandal's college of Engineering Pune	7588195807	kdk.comp@coep.ac.in
33	Mr. A Naga Lakshman Kumar	Swarnandhra College of Engineering and Technology	9440456749	mcahod@swarnandhra.ac.in
34	Dr. Rayachoti Eswaraiiah	Vasireddy Venkatadri Institute of Technology	6303980487	eswarrayachoti79@gmail.com
35	Mr. PRABHAKAR K	Swarnandhra College of Engineering and Technology	9788969734	prabhakarswrn@gmail.com
36	Mr. Sindhe Phani Kumar	pace institute of technology and Sciences	9581456560	phanikumarsindhe@gmail.com
37	Mr. Biswajit Panda	Srinix College Of Engineering, Balasore	7978689394	biswajit97.panda@gmail.com
38	Mr. SATHAR	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY	9000451770	sathar9000@gmail.com
39	Mr. Meduri v n s r k sai Somayajulu	Gudlavalleru engineering college	9703274278	m.somayajulu12@gmail.com
40	Mr. K SUBRAHMANYA KOUSIK SARMA	GUDLAVALLERU ENGINEERING COLLEGE	8500084992	kousikcareers@gmail.com
41	Dr. MEKALA SRINIVASA RAO	Lakireddy Bali Reddy College of Engineering	9493925966	srinu.mekala@gmail.com
42	Mr. GOLLA SATYA HARISH	Accenture solutions private limited	8688883353	gsh.niit@gmail.com
43	Mr. PATTABHI RAMAMOCHAN PATNALA	IDEAL INSTITUTE OF TECHNOLOGY	9985221118	ramspatnala@gmail.com

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44	Mr. Viswanadhareddy N	Dadi institute of Engineering and technology	9849582104	viswanadhareddyn@diet.edu.in
45	Mr. srinivasarao kongara	rvr&jc	9866205521	kongarasmal@gmail.com
46	Mrs. MADIRI DIVYA SUMITHRA	gudlavalleru engineering college	9848864158	sumithra530@gmail.com
47	Dr. Vuppu Padmakar	Methodist College of Engineering and Technology	9394825335	drvuppu@gmail.com
48	Mr. chalasani srinivas	sircrre	9491554464	srinivas.chlsa@gmail.com
49	Mr. MYLAVARAPU KALYAN RAM	Aditya Engineering College	9542743567	kalyanram1985@gmail.com
50	Mrs. LAKKU KANYA KUMARI	ANDHRA LAYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	9642743555	kanya.hasya9419@gmail.com
51	Miss B. G. Deepthi	Sri Padmavathi Mahila Visva Vidyalayam	9032640215	ccvy.deepthi@gmail.com
52	Miss NALINI DURGA SEERAMSETTI	SRI PADMAVATI MAHILA VISVA VIDYALAYAM TIRUPATI	8978814976	nalini.sst@gmail.com
53	Mr. SUDHAKAR BATHALA	RGUKT IIIT-AP RK VALLEY	9177729199	b.sudhakar@rguktrkv.ac.in
54	Mrs. Paul T Sheeba	Kings Engineering College	9841581699	sheebajamespt8082@gmail.com
55	Mrs. Merlin G	Kings Engineering College	9962735694	g.merlingeorge@gmail.com
56	Miss D REJEES JENIFA	Kings Engineering College	8939347661	jenifa1306@gmail.com
57	Mrs. SIVA LAKSHMI BOLEM	VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN	9848986099	bslakshmi85@gmail.com

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58	Mr. THOMAS JACOB	Vimal Jyothi Engineering College	9447953460	thomaspullattu@vjec.ac.in
59	Mrs. SASIKALA R	CARE GROUP OF INSTITUTIONS,TRICHY	9994492942	Sasiarasu2k@gmail.com
60	Dr. G.M.Karthik	Vivekanandha College of Engineering for Women	9443285673	karthikcse@vcew.ac.in
61	Mr. MIKKILI DILEEP KUMAR	gudlavalleru engg college	9533915916	dilipmtech@gmail.com
62	Mr. BOYINA NAGARAJU	V.K.R,V.N.B & AGK COLLEGE OF ENGINEERING	8019501868	nagarajuboyina9@gmail.com
63	Mr. LAKSHMIKANTH PALETI	Kallam Haranadhareddy Institute of Technology	9492464062	khiticseplacements@gmail.com
64	Mr. Melam Nagaraju	Gudlavalleru Engineering College	9912168855	melam.nagaraju5810@gmail.com
65	Dr. Tarakeswara Rao Balaga	Kallam Haranadhareddy Institute of Technology	7981848035	tarakesh7199@gmail.com
66	Mrs. MADDELA SAILAJA	PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY	8500722564	msailaja@pvpsiddhartha.ac.in
67	Mrs. Y SUREKHA	PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY	9493106040	ysurekha@pvpsiddhartha.ac.in
68	Mrs. s parvathi vallabhaneni	Prasad V Potluri Siddhartha Institute of Technology	9550806131	vsparvathi@pvpsiddhartha.ac.in
69	Mrs. DR G LALITHA KUMARI	PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY	7396874553	glalitha@pvpsiddhartha.ac.in
70	Mr. Ram Gopal Musunuri	PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY	9849291011	ramgopal.musunuri@gmail.com

ATAL workshop on Data Science

71	Mr. A VANAMALA KUMAR	PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY	9959432595	cutevanam@gmail.com
53	Mr. TADIPARTHI MOTHILAL	V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING	8179138288	mothilal556@gmail.com
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ATAL workshop on Data Science

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ATAL workshop on Data Science

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ATAL workshop on Data Science

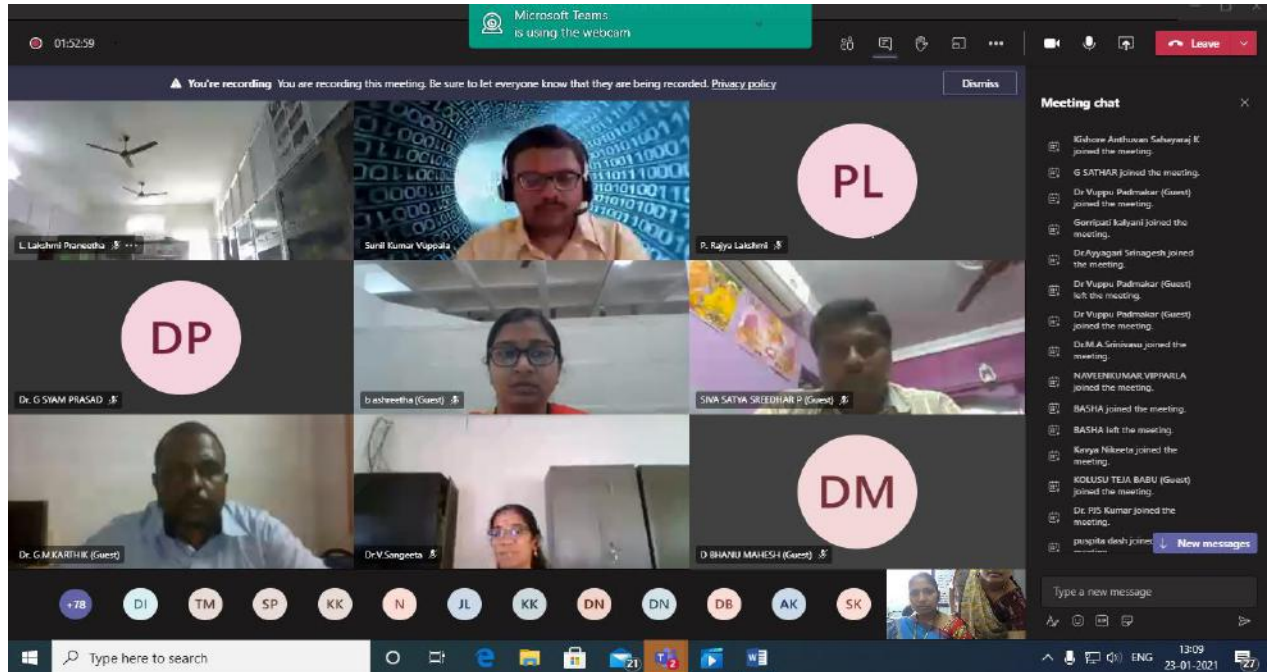
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ATAL workshop on Data Science

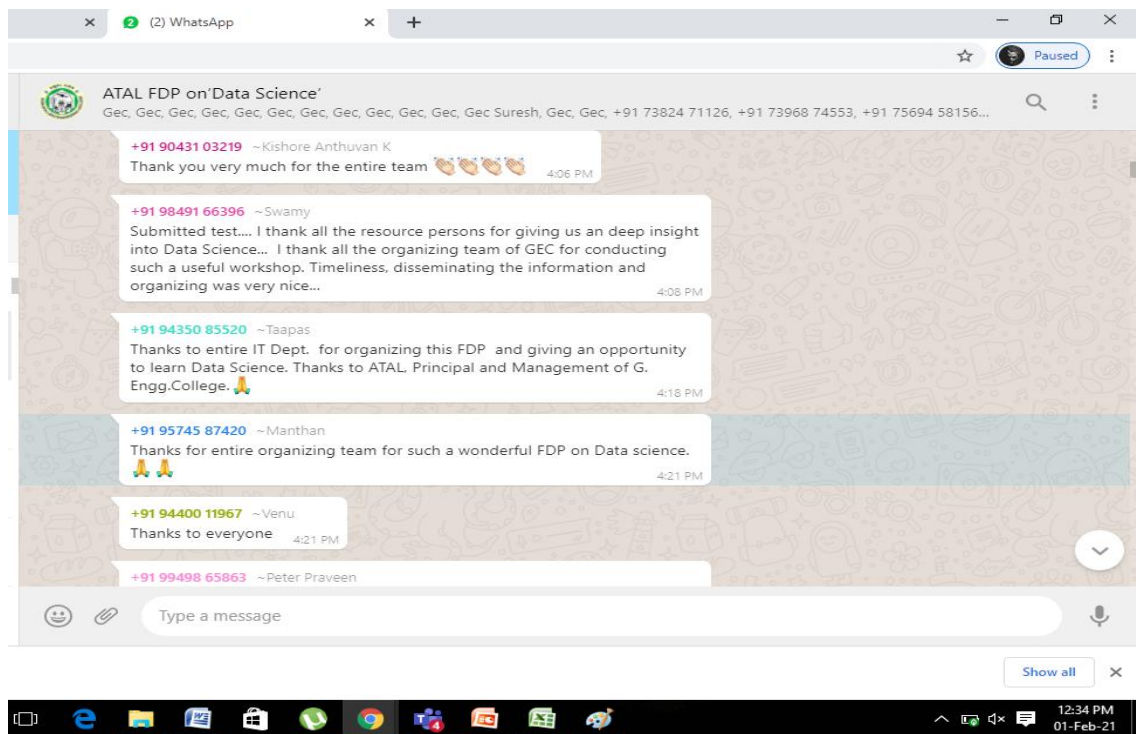
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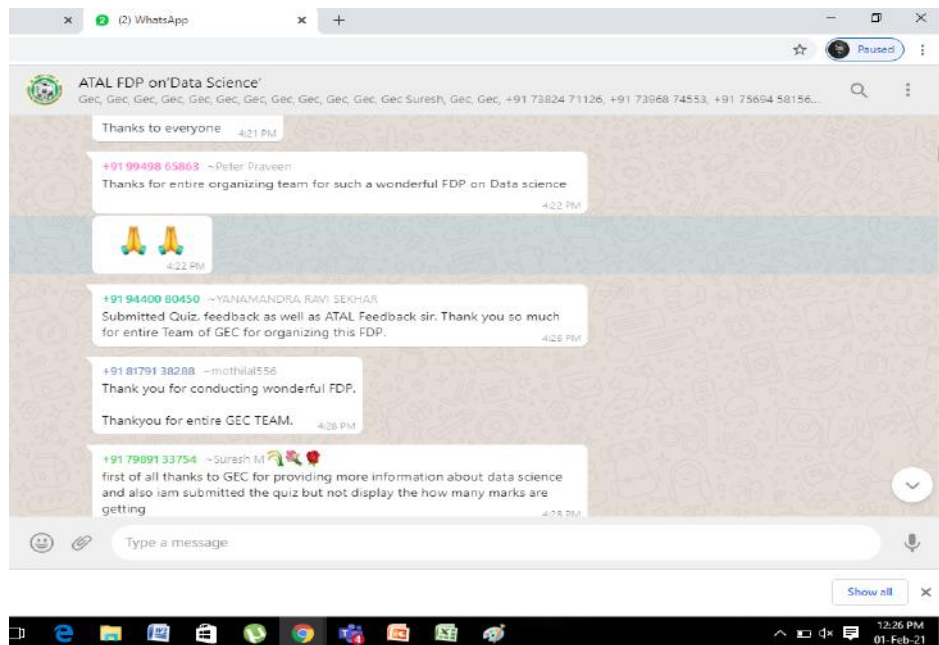
The screenshots of the participants taken on the closing are:-



Some of the feedback received for the workshop are as below:-



ATAL workshop on Data Science



It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online workshop and for content.



SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, GUDLAVALLERU-521 356, Krishna District, A.P., India

(Approved by AICTE, New Delhi and Permitted by A.P. State Government)

Accredited by NAAC

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Dr. G. V. S. N. R. V. PRASAD

M.S., M.Tech., Ph.D.,

MISTE, MIETE, MIE, MCSI, MISRS, MIAPR, MCRSI

Principal

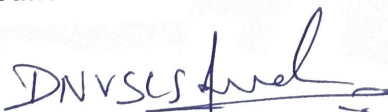
PROJECT COMPLETION REPORT FOR SPICES SCHEME

AICTE File No. : 10-87/AICTE/IDC/SPICES/2020-21
Name of the Scheme : SPICES
Date of Sanction : 05-03-2021
Name of the Coordinators : Dr. D.N.V.S.L.S.INDIRA (PI),
Dr. Ch. SURESH BABU (Co-PI)
Duration of the Event : 26-03-2021 to 30-09-2022

Events conducted:

Sl. No.	Name of the Event	Duration of event (From -To)	Number of Students Participated	Amount Utilized in (Rs.)
1.	A Twelve day workshop on Web Designing Using React JS	24-11-2021 To 07-12-2021	194	38,800
2.	Guest Lecture on Importance of Professional Ethics in Engineering Fields	8/12/2021 To 9/12/2021	871	21,525
3.	TECH SPICES-Two Days Online National Fest	28/1/2022 To 29/1/2022	795	21,545
4.	Business Data Analytics: Transforming Big Data Sets into Business Assets	24/2/2022	412	14,740
5.	MERN STACK- Two Days Offline Workshop	3/3/2022 To 4/3/2022	60	26,235
6.	International Conference Paper Presentation	16/3/2022 To 18/3/2022	4	6,000
7.	Hands on Experience on Internet of Things (IoT)	17/3/2022	105	5,970
8.	Participating Events in Other Colleges By Students	25/3/2022 To 29/4/2022	14	1,500
9.	Azadi Ka Amrit Mahotsav- AKAM	3/8/2022 To 15/8/2022	1333	17,211
10.	National Level SRGEC Hackathon 2022	14/9/2022 To 15/9/2022	143	87,787
11.	Participating events in IETE_ISF_Annual Day_VKR&VNB&AGK	22/9/2022 To 23/9/2022	50	5,600
Total				2,46,913

Date of Completion : 30-09-2022
Amount sanctioned : Rs.1,00,000/-
Amount Utilized : Rs.2,46,913/-


Dr. D.N.V.S.L.S.INDIRA
Co-ordinator




PRINCIPAL
PRINCIPAL

December 2, 2021

From
Dr. VARRE VKD VARA PRASAD
MODROB Coordinator
Professor of ECE,
Gudlalleru Engineering College
Seshadrirao Knowledge Village
Gudlalleru-521356
Krishna District, Andhra Pradesh

To
MODROB TEAM,
Institute Development Cell
All India Council for Technical Education
Nelson Mandela Marg Vasant Kunj
New Delhi-110070.

Sir/Madam,

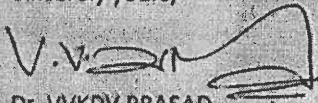
Sub: MODROB Project-Completed-documents submitting --reg

Good morning. This is to bring to your kind notice that we, Gudlalleru Engineering College, got sanctioned MODROB Project titled "Augmentations of Facilities In Microwave and Optical Communication lab" with sanction order no.-- F. No. 9-114/RIFD/MOD/Policy -I/2018-19 dated 02-12-2019 sanctioned in the financial year 2019-2020. I am the Project Coordinator for this. This project is completed. In this connection, we are herewith submitting all the mandatory documents. Please find enclosed herewith the mandatory documents along with copy of sanction letter. I kindly request you to reimburse the amount of Rs. 31,659.58/- (Thirty one thousand and six fifty nine rupees and fifty eight paise). Please acknowledge this.

Once again we are very much thankful for sanctioning this project.

Thanking you sir,

Sincerely yours,


Dr. VVKDV PRASAD

MODROB -Coordinator

Ph: 9347007680

Email: varaprasadvvkd@gmail.com

FORMAT
for
**Annual Progress Report for AICTE funded project under
Modernization and Removal of Obsolescence (MODROBS)**

- File No. (As mentioned in sanction letter) : 9-114/RIFD/MOD/Policy-1/2018-19
- Date of Sanction : 02-12-2019
- Subject Area : Communications
1. Project Coordinator (Name and address) : Dr. VARRE V.K.D.VARA PRASAD
Professor,
Department of Electronics & Communication
Engineering
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village,
Gudlavalleru – 521 356
Krishna (Dt.), Andhra Pradesh.
2. Project Title : Augmentations of Facilities in Microwave and
Optical Communication Lab
3. Date of Commencement of the Project : 21-03-2020
4. Duration of the Project : 2 Years
5. Amount Sanctioned by AICTE : Rs. 17,25,000.00
6. Amount Released by AICTE : Rs. 13,80,000.00
7. Details of Expenditure :

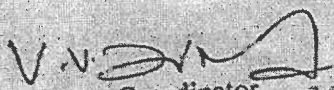
A. NON-RECURRING

S. No.	List of Equipment Procured	Cost
1.	Microwave Bench(S-BAND)	3,86,039.00
2.	Microwave Bench(X-BAND)	1,38,917.00
3.	Doppler Radar Training Systems	5,09,760.00
4.	Microstrip Antenna Training Kit	1,53,400.00
5.	Satellite Communication Training System with Video Setup	2,47,800.00
6.	Bank RTGS Charges, cheque book issue charges	154.58
Total Amount		14,36,070.58

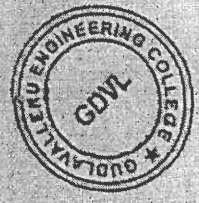
8. Whether there is any Deviation from the Purpose for which Grant was Released. If so, Details of Amount to be Given : No
9. Has this Programme Augmented the Facilities of your Institute / Department. (If so, please describe in 100 words) : Yes


Department of Electronics & Communication Engineering has Microwave and Optical Communication laboratory with various facilities like microwave benches, optical kits. With this programme, department has got sufficient equipment which operates at Radio Frequency and useful to describe theoretical concepts with the concerned equipment.

10. Academic Application of the Equipment Procured, if any:
- > Under graduate students are using this equipment for understanding the theoretical concepts of related subjects.
 - > Under graduate students are using this equipment for their project work.
 - > Faculty members are carrying out their research work.


 Project Coordinator 22/11/2021
 (Signature and Seal with date)

Professor
 Dept. of Elect. & Commn. Engg.
 Gudlavalluru Engineering College
 Seshadri Rao Knowledge Village
 GUDLAVALLERU-521 356




 Registrar/Director/Principal 22/11
 (Signature and Seal with date)

PRINCIPAL
 Gudlavalluru Engineering College
 GUDLAVALLERU-521356

Date: 21.01.2021

COMPLETION REPORT

To,

Director (FDC),
AICTE,
Nelson Mandela Marg,
New Delhi 110067

Respected Sir,

Sub: Three Phases of STTP – Completion Report – Regarding.

Ref: 34-65/208/RIFD/STTP/Policy-1/2018-19, Dated 21/2/2020.

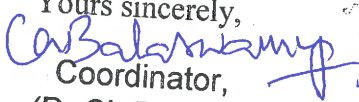
With the reference above, the department of Electronics and Communication Engineering of this college had successfully conducted **Three Phases of Short Term Training Programme (STTP)** on **“Blockchain Architecture Design and Uses cases”** through online mode in the following dates.

Phase-1: 10-15, August 2020

Phase-2: 17-22, August 2020

Phase-3: 24-29, August 2020

Thanking you sir.

Yours sincerely,

Coordinator,
(Dr.Ch.Balaswamy)

Signatures of the Program Evaluation Committee:

1. Chairperson:
Dr.P.RavindraBabu,Principal
2. Member Secretary:
Dr.Ch.Balaswamy, Professor & Coordinator of STTP, ECE
3. Member:
Dr.V.V.K.D.V.Prasad, Professor & Head of the Department, ECE
4. Member:
Dr.S.Narayana, Professor & Head of the Department, CSE
5. Member:
Dr.M.Baburao, Professor & Subject Expert, CSE



GUDLAVALLERU ENGINEERING COLLEGE
SESHADRI RAO KNOWLEDGE VILLAGE
GUDLAVALLERU – 521356 KRISHNA DISTRICT (A.P)
INDIA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Report on One Week Faculty Development Programme-2020

AICTE Sponsored Short Term Training Program on "AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-I"

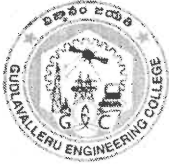
1. The Department of Electrical and Electronics Engineering of Gudlavalleru Engineering College conducted a One Week Faculty Development Programme on “**AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS**” during 3rd to 8th August 2020. About 103 Full time Research Scholars, PG Students and academicians from Engineering & Science colleges from EEE departments have participated in this program.
2. The goal of this FDP is to bring together experts carrying their research on renewable energy sources and microgrids. In particular, the main aim of the FDP is to enhance the learning capabilities of the participants in photovoltaic's, FACTS devices, AI technique applies to smart grids, Zero bus Load flow Fractional-Order Controllers. The FDP cover planning and control of the power system with renewable energy sources and corresponding research challenges.
3. The resource persons and discourse topics for the Faculty Development Programme

S.No	Date & Day	Resource Person	Title of the Session
1	3-8-2020	Prof.(Dr.) Sukumar Misra, IIT-Delhi	Control of Grid connected PV System
2	4-8-2020	Prof.(Dr.) Bhimrao Umre, VNIT-Nagpur	Mitigation of Torsional Oscillations in Turbo-Alternator Set at Thermal Power Plant with FACTS Controllers
3	5-8-2020	Prof.(Dr.) Debapriya Das, IIT-Kharagpur	Micro grid/Virtual Power Plant and Zero Bus Load Flow
4	6-8-2020	Prof.(Dr.) Ranjan Kumar Behera, IIT-Patna	Smart micro grid Technology and integration

5	7-8-2020	Dr. D. Koteswara Raju, NIT-Silchar	Smart Grid & Integration of Renewable Energy Resources
			Modern Advances in Power Management Strategies for Optimal Operation of Distributed Energy Resources in Micro grids
6	8-8-2020	Prof.(Dr.) N. Selva Ganesan, IISST- Thiruvananthapuram	Limit cycle prediction and suppression using Integer and Fractional-Order Controllers for system with Backlash/Relay Nonlinearity
			Shaping Limit Cycle Performance of Fractional-Order Controllers for Plants Containing Backlash



H.O.D



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INDIA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

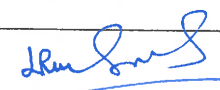
Report on One Week Faculty Development Programme-2020

AICTE Sponsored Short Term Training Program on “AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-II”

1. The Department of Electrical and Electronics Engineering of Gudlavalleru Engineering College conducted a One Week Faculty Development Programme on “**AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS**” during 21st to 26th October 2020. About 114 Full time Research Scholars, PG Students and academicians from Engineering & Science colleges from EEE departments have participated in this program.
2. The goal of this FDP is to bring together experts carrying their research on renewable energy sources and micro grids. In particular, the main aim of the FDP is to enhance the learning capabilities of the participants in Induction motor control, energy storage systems, AI technique applies to smart grids, power converters for electric vehicles, Image de-fencing. The FDP will cover planning, control and protection of the power system with renewable energy sources and corresponding research challenges will be discussed.
3. The resource persons and discourse topics for the Faculty Development Programme

Day	Date	Time	Resource person	Title of the Session
1	21-9-2020	9.15 A.M- 12 A.M (FN)	Dr. Keshri Ritesh Kumar, Assistant Professor, Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.	PM-BLDC Motor Drive and its Control for Light Electric Vehicle Application
		2.00 P.M- 4.00 P.M (AN)	Dr. R.C. Bansal, Professor, Department of Electrical Engineering University of Sharjah, UAE.	Automation and intelligent control of renewable energy (wind, PV)
2	22-9-2020	10 A.M- 12 A.M (FN)	Dr. Sandip Ghosh, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology, BHU	Robust control of Induction motor

	22-9-2020	2.00 P.M- 4.00 P.M (AN)	Dr. Rajiv Ranjan Sahay, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Kharagpur.	Seeing through the fence: Image de- fencing using a video sequence".
3	23-9-2020	10 A.M- 12 A.M (FN)	Dr. Arvind Singh, Assistant Professor, School of Electrical Engineering, Shandong University, China.	Intelligent Energy management system and Artificial intelligence-based power system fault classification and location.
		2.00 P.M- 4.00 P.M (AN)		
4	24-9-2020	10 A.M-12 A.M (FN)	Dr. D.Koteswara Raju, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Silchar.	Role of Artificial Intelligence in Energy Storage Systems
		2.00 P.M- 4.00 P.M (AN)	Dr. R.C. Bansal, Professor, Department of Electrical Engineering University of Sharjah, UAE.	Automation and intelligent control of Conventional Power systems, Smart Grid
5	25-9-2020	10 A.M- 12 A.M (FN)	Dr. D.Koteswara Raju, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Silchar.	Role of Artificial Intelligence in Energy Storage Systems
		2.00 P.M- 4.00 P.M (AN)	Dr. Vimlesh Verma, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Patna.	Advanced Control of Induction Motor Drives
6	26-9-2020	10 A.M- 12 A.M (FN)	Dr. Y.V. Hote, Associate professor, Department of Electrical Engineering, Indian Institute of Technology, Roorkee.	Challenges in Modelling and Control of Electrical Systems: Theoretical and Practical Aspects
		2.00 P.M- 4.00 P.M (AN)		


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GUDLAVALLERU ENGINEERING COLLEGE
SESHADRI RAO KNOWLEDGE VILLAGE
GUDLAVALLERU – 521356 KRISHNA DISTRICT (A.P) INDIA
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING


Report on One Week Faculty Development Programme-2020

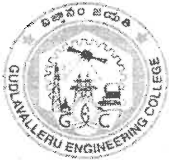
AICTE Sponsored Short Term Training Program on "AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICALSYSTEMS - Phase-III"

1. The Department of Electrical and Electronics Engineering of Gudlavalleru Engineering College conducted a One Week Faculty Development Programme on “AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICALSYSTEMS” during 16th to 21st November 2020. About 45 Full time Research Scholars, PG Students and academicians from Engineering & Science colleges from EEE departments have participated in this program.
2. The goal of this FDP is to bring together experts carrying their research on renewable energy source, microgrids and artificial Intelligence. In particular, the main aim of the FDP is to enhance the learning capabilities of the participants in Machine learning, Fault Identification and classification in transformers , Meta-Heuristic Optimization techniques, Optimal Operation of Hybrid Power Systems and fuzzy-logic for optimization during uncertainties. The FDP cover planning and control of the power system with renewable energy sources and corresponding research challenges.
3. The resource persons and discourse topics for the Faculty Development Programme

Day	Date	Time	Resource person	Title of the Session
1	16-11-2020 (Monday)	9.15 A.M-11.00A.M (FN)	Mr.Pavan Kumar Singh, Director/Founder, Nextr AI and Digital Solutions, Vishakapatnam,India	Introduction to Data Science and Machine Learning
		2.00 P.M-4.00 P.M (AN)		Hands on session on Machine Learning and its application to Electrical Engineering

2	17-11-2020 (Tuesday)	10 A.M-12 A.M (FN)	Dr. Sankar Peddapati Assistant Professor, Department of Electrical Engineering, NIT Andhra Pradesh	Meta-Heuristic Optimization techniques
		2.00 P.M-4.00 P.M (AN)		MPPT Tracking in PV systems.
3	18-11-2020 (Wednesday)	10 A.M-12 A.M (FN)	Dr. S. Surender Reddy, Professor, Department of Railroad and Electrical Engineering, Woosong University, Daejeon, Republic of Korea	Impact of Electric Vehicles and Storage Systems in Optimal Operation of Hybrid Power Systems
		2.00 P.M-4.00 P.M (AN)		Various Transmission Congestion Management Methods in Deregulated Power Systems
4	19-11-2020 (Thursday)	10 A.M-12 A.M (FN)	Dr. Chilaka Ranga, Assistant Professor, Department of Electrical Engineering, NIT Srinagar, India.	Condition Monitoring and Fault Diagnosis of Power Transformer
		2.00 P.M-4.00 P.M (AN)		Recent Trends in Diagnosis of Power Transformer.
5	20-11-2020 (Friday)	10 A.M-12 A.M (FN)	Dr. Binoy Krishna Roy, Professor, Department of Electrical Engineering, NIT Silchar, India..	Industrial Automation – a few cases and Networked-Control System – a new trend
		2.00 P.M-4.00 P.M (AN)	Dr. Dasu Butti Associate Professor Department of Electrical & Electronics Engineering, GEC, Gudlavalleru, India.	Interconnected Multi-machine Power System Stabilizer Design using Heuristic Algorithms
6	21-11-2020 (Saturday)	10 A.M-12 A.M (FN)	Dr. Ranjan Kumar Behera Associate Professor Department of Electrical Engineering, IIT Patna, India.	High performance 3-phase and Multiphase Induction motor drives for traction applications.
		2.00 P.M-4.00 P.M (AN)	Dr. Sanjib Ganguly Associate Professor Department of Electronics & Electrical Engineering, IIT Guwahati, India.	Optimization Under Uncertainty - A Fuzzy-based Approach


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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Report on One Week Faculty Development Programme-2021

AICTE Sponsored Short Term Training Program on "AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-IV"

1. The Department of Electrical and Electronics Engineering of Gudlavalleru Engineering College conducted a One Week Faculty Development Programme on “**AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS**” during 15th to 20th March, 2021. About 64 Full time Research Scholars, PG Students and academicians from Engineering & Science colleges from EEE departments have participated in this program. .
2. The goal of this FDP is to bring together experts carrying their research on System modelling, Smart Energy systems with IoT, Control and automation. In particular, the main aim of the FDP is to enhance the learning capabilities of the participants in Energy management in Smart grid, cyber Physical systems, model predictive algorithms, control of open ended winding induction machines, IoT applications in modern power systems and Hybrid power systems. The FDP cover control and automation of modern power system with renewable energy sources and corresponding research challenges.
3. The resource persons and discourse topics for the Faculty Development Programme.

Day	Date	Time	Resource person	Title of the Session
1	15-03-2021 (Monday)	9.45 A.M-11.00A.M (FN)	Dr.D.Koteswara Raju Assistant Professor, Department of Electrical Engineering, NIT, Silchar	Internet of things and IOT application for Smart energy
		2.00 P.M-4.00 P.M (AN)	Dr.N.Satyanarayana, Assistant Professor. Department of Electrical Engineering, MNIT Jaipur	System modeling and Linearization
2.	16-03-2021 (Tuesday)	10 A.M-12 P.M (FN)	Dr. S. Sen Professor, Department of Electrical Engineering, IIT,Kharagpur	Process Automation and Control

2	16-03-2021 (Tuesday)	2.00 P.M-4.00 P.M (AN)	Dr. Venkata Kirthiga Associate Professor, Department of Electrical Engineering, NIT Tiruchirappalli	Cyber Physical Systems
3	17-03-2021 (Wednesday)	10 A.M-12 P.M (FN)	Dr.Lalith Chandra Saikia, Associate Professor, Department of Electrical Engineering, NIT,Silchar	Virtual Powerplant
		2.00 P.M-4.00 P.M (AN)	Dr. Praveen Tripathi Professor, Department of Electrical Engineering, IIT, Guhawati.	Smart grids & Power Management
4	18-03-2021 (Thursday)	9.30 A.M-11.30 A.M (FN)	Dr.Chinmay Rajhans Assistant Professor, Department of Electrical Engineering, VMJIT,Pune	Model Predictive Control and its Applications
		2.00 P.M-4.00 P.M (AN)	Dr. V.T.Somasekhar , Professor, Department of Electrical Engineering, NIT, Warangal	Introduction to Open-end Winding Induction Motor Drives
5	19-03-2021 (Friday)	10 A.M-12 P.M (FN)	Dr. R.C. Bansal, Professor, Department of Electrical Engineering, University of Sharjah, UAE.	Automation & Control of Conventional Power Systems
		2.00 P.M-4.00 P.M (AN)	Dr. Venkata Kirthiga Associate Professor, Department of Electrical Engineering, NIT Tiruchirappalli	Cyber Physical Systems
6	20-03-2021 (Saturday)	10 A.M-12 P.M (FN)	Dr.D.Koteswara Raju, Assistant Professor, Department of Electrical Engineering, NIT, Silchar	IOT-based Intelligent Management of Electric Vehicles.
		2.00 P.M-4.00 P.M (AN)	Dr. R.C. Bansal, Professor, Department of Electrical Engineering, University of Sharjah, UAE.	Automation & Control of Renewable Distributed Generators (PV and Wind systems), Hybrid Power Systems, Microgrid, Smart Grid


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GUDLAVALLERU ENGINEERING COLLEGE

**(An Autonomous Institute with Permanent Affiliation to JNTUK,KAKINADA)
Seshadrirao Knowledge Village, GUDLAVALLERU – 521356**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT

on

AICTE sponsored

Two week

Faculty Development Programme

On

“SOFT COMPUTING TECHNIQUES AND ITS APPLICATIONS”

27th Jan - 8th Feb 2020.

Department of Computer Science and Engineering, Gudlavalleru Engineering College, Gudlavalleru has conducted Two Week Faculty Development Program (FDP) sponsored by AICTE on **SOFT COMPUTING TECHNIQUES AND ITS APPLICATIONS** from Jan 27th to Feb 8th 2020. The main essence of this Programme is to highlight effective techniques that can be applied on machines and enable them to extract the human insights to best solutions. This FDP provides a broad introduction to Soft computing, machine learning algorithms, statistical pattern recognition and deep learning. The FDP also draws attention to numerous case studies and applications, so that the participants learn how to apply soft computing techniques to real-time data in computer vision and other areas.

Date: 27th Jan, 2020

Day 1-Inauguration Session

FDP was inaugurated on 27th January, 2020 by Honorable guest Dr. Suresh Chandra Satapathy, Professor & Dean (Research), KIIT, Bhubaneswar, Dr.P.Ravindra Babu, Principal, Gudlavalleru Engineering College, Dr.S.R.K.Reddy, Advisor to the Management, Gudlavalleru Engineering College, and co-ordinator of FDP, Dr.M.Babu Rao, Professor& Mentor, CSE Department, Dr.S.Narayana, Professor & HoD, CSE Department. Mrs.A.Aparna, Assistant Professor, CSE Department welcomed all the dignitaries and delegates. In her welcome speech, she highlighted the importance and objectives of organizing this Faculty Development Program.

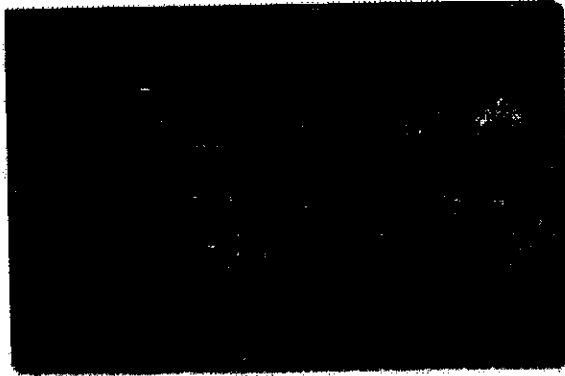
On the occasion, Dr.P.Ravindra Babu, Principal, Gudlavalleru Engineering College, in his address, described all the previous workshops organized by the institute. He also reminded that FDP facilitates people from various institutes and eminent resource persons to join together to share their knowledge and promote research activities and he thanked all the principals who have given their consent to their respective faculty to participate in the FDP.

Dr.S.R.K.Reddy, Advisor to the Management, Gudlavalleru Engineering College, and co-ordinator of FDP, Dr. M. Babu Rao, Professor&Mentor, CSE Department, expressed their happiness to be a part of the FDP and suggested the faculty participants to make the best use of this opportunity to learn.

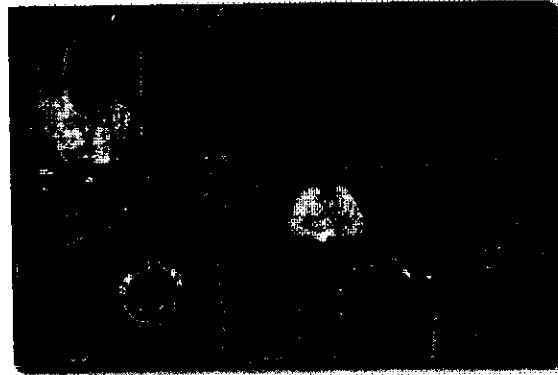
Dr.S.Narayana, HoD, CSE Department, in his address, welcomed all the dignitaries and faculty participants and emphasized the following points – the importance of Soft Computing Techniques and its Applications in research work and how it is important for a faculty to be aware of all the emerging technologies, practical learning is as much important as the theoretical learning is, this is the sole responsibility of the teachers, who transmits their theoretical and practical knowledge to their academic circles and students.

In his inaugural speech, Dr. Suresh Chandra Satapathy remembered his association with the department. In his session he talked about the developing research with specific reference to Soft Computing Techniques and its Applications, and he delivered the modern tools for the Soft Computing as well as he discussed about the research areas. He emphasized that quality among teachers can be build only through development programs. He gave his thanks to Dr.P.Ravindra Babu, Principal, Gudlavalleru Engineering College for his achievements in such a short span of time and appreciated him for his contribution in promoting quality management and technical education in the surroundings.

Keynote speaker of this session, Dr. Suresh Chandra Satapathy, Professor & Dean (Research),KIIT, Bhubaneswar said that Soft Computing and Its Applications is an on-demand course. He had given a brief introduction of Soft Computing, which was a good start to the program.



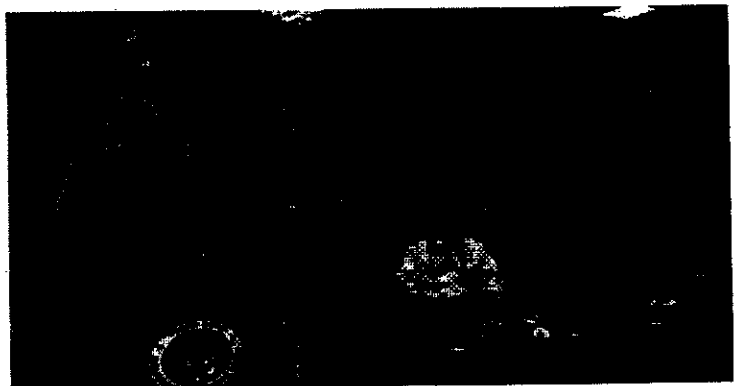
Dr. M. Babu Rao inaugurated the FDP by lighting the lamp



Address by Dr.P.Ravindra Babu on the eve of inauguration ceremony



Dignitaries on the dais for the inaugural function



Inaugural speech by Dr. Suresh Chandra Satapathy

At the end, the inaugural session was concluded with a vote of thanks given by Mrs.A.Aparna, Assistant Professor, CSE Department.

Date : 27th Jan, 2020

Technical Session: 1

Topic: Introduction to Soft Computing, Neural Networks, Artificial Neural Networks.

Resource Person: Dr. Suresh Chandra Satapathy, Professor & Dean (Research),KIIT, Bhubaneswar

The first technical session was started with formal introduction of the resource person by Mrs.A.Aparna, Assistant Professor, CSE Dept. The resource person of this session, Dr. Suresh Chandra Satapathy, started his discussion with an introduction to Soft Computing, and he further elaborated the concepts by explaining Neural Networks and Artificial Neural Networks. The session was ended with the vote of thanks given by Mrs.A.Aparna, Assistant Professor, CSE Dept.

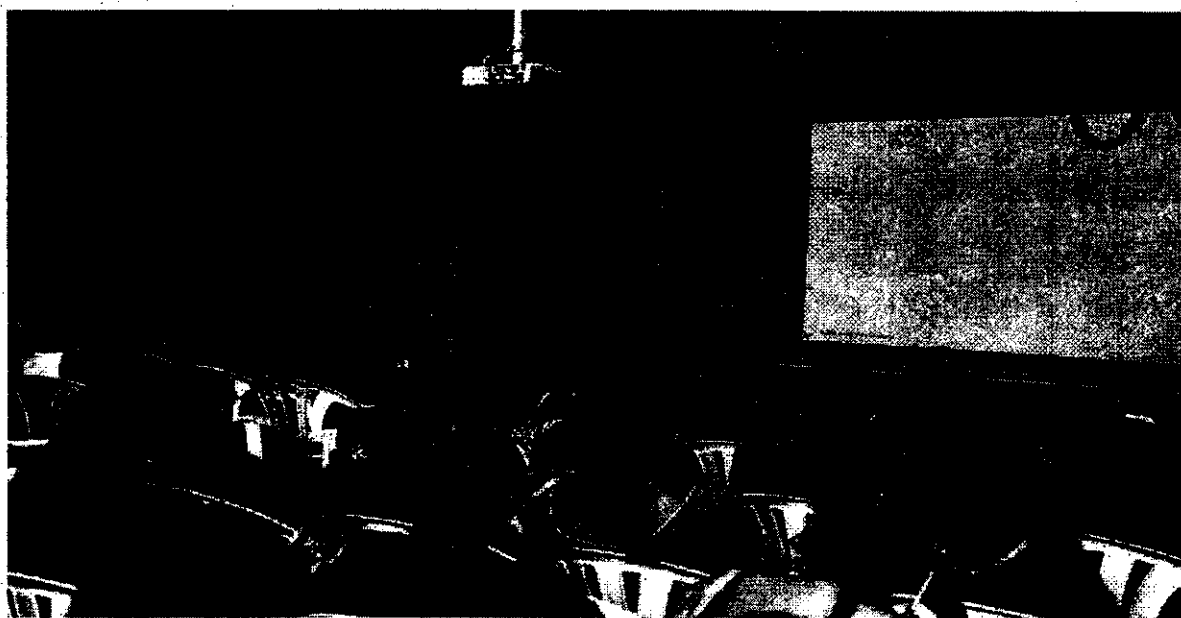
Date : 28th Jan, 2020

Technical Session: 2

Topic: Swarm Intelligence and few applications in engineering, Fuzzy Logic.

Resource Person: Dr. Suresh Chandra Satapathy, Professor & Dean (Research),KIIT, Bhubaneswar.

The technical session started with formal welcome note by Mrs.A.Aparna, Assistant Professor, CSE Department. After that, the resource person of this session, **Dr. Suresh Chandra Satapathy**, equipped the participants with the concepts regarding Swarm Intelligence and few applications in Engineering, Fuzzy Logic. The session was formally ended with the vote of thanks given by Mrs.A.Aparna, Assistant Professor, CSE Dept.



Dr. Suresh Chandra Satapathy delivering a lecture on Swarm Intelligence

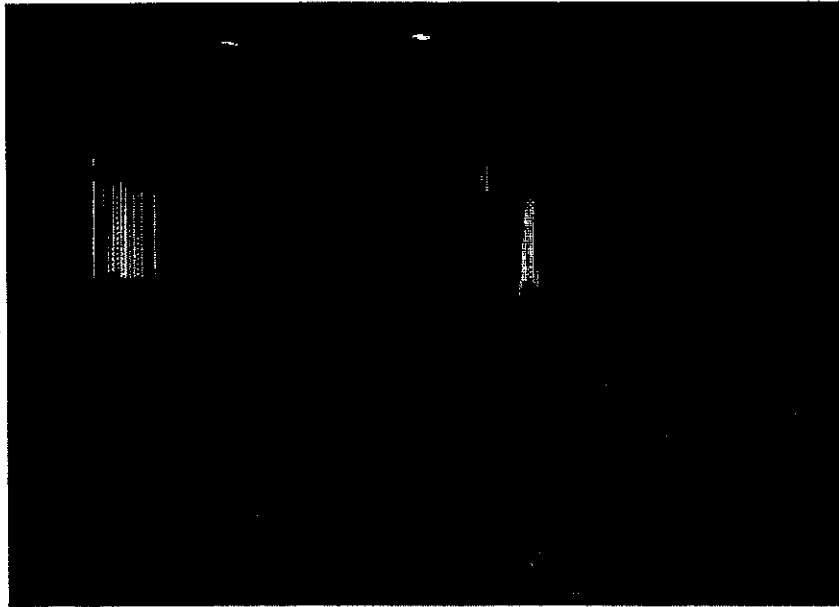
Date : 29th Jan, 2020

Technical Session: 3

Topic: Introduction to Neural Networks and Introduction to Keras Framework.

Resource Person: Mr.Suryatej Mahankali & team, Smart Bridge Educational Systems Pvt Ltd., Hyderabad.

Mrs.A.Aparna, Assistant Professor, CSE Dept. has commenced the session by welcoming the resource person with a brief introduction of the resource person, Mr. Suryatej. The resource person started the session with an introduction of Neural Networks. Later he introduced Keras Framework. He explained the concepts of neural networks with useful practical sessions.



Mr.Suryatej Mahankali delivering a lecture on Neural Networks

Date: 30th Jan, 2020

Technical Session: 4

Topics: Introduction to Convolutional Neural Networks, Classification of images using CNN, Introduction to Flask Framework.

Resource Person: Mr.Suryatej Mahankali & team, Smart Bridge Educational Systems pvt ltd., Hyderabad.

On his second day of FDP session, he gave an introduction to Convolutional Neural Networks, Classification of images using CNN and Flask Framework. He demonstrated to all the participants how to install and use Numpy, TensorFlow, Keras and Pandas. He gave a wonderful hands-on session to the participants.

Date : 31st Jan, 2020

Technical Session: 5

Topics: Introduction to Recurrent Neural Networks, Time Series Analysis using RNN.

Resource Person: Mr.Suryatej Mahankali & team, Smart Bridge Educational Systems pvt ltd., Hyderabad.

On the third day of his FDP sessions, he gave an introduction to Recurrent Neural Networks and Time Series Analysis using RNN. He enabled all the participants to develop an application for predicting Google Stock Price.

Date : 1st Feb, 2020

Technical Session: 6

Topics: Introduction to Transfer learning, Video analysis for object detection using Yolo.

Resource Person: Mr.Suryatej Mahankali & team, Smart Bridge Educational Systems pvt ltd., Hyderabad.

On the fourth day of his FDP sessions, he gave an introduction to Transfer learning, video analysis for object detection using Yolo. He demonstrated object detection using Yolo technique by taking a CCTV footage containing traffic congestion and then detected and displayed objects with their accuracy rates. The session was formally ended with the vote of thanks given by Mrs.A.Aparna, Assistant Professor, CSE Department.

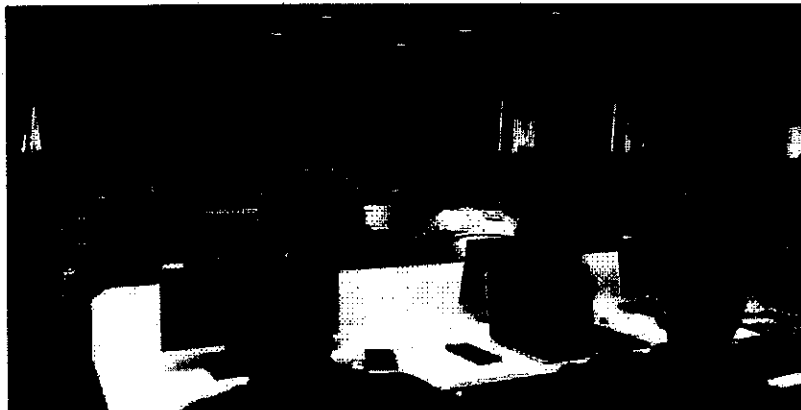
Date: 3rd Feb, 2020

Technical Session: 7

Topics: Python Programming

Resource Person: Mr. Ramana Murthy, Senior Vice President, CodeTantra Tech Solutions, Hyderabad.

Mrs.A.Aparna, Assistant Professor, CSE Department has commenced the session with a formal introduction of the resource person, Mr. Ramana Murthy. He started the session with language specifics of Python Programming. He continued the session by introducing the basic concepts of python programming to the faculty participants with hands-on training.



Mr.Ramanamurthy delivering a lecture on basic concepts of Python

Date : 4th Feb, 2020

Technical Session: 8

Topics: Python Packages

Resource Person: Mr. Ramana Murthy, Senior Vice President, CodeTantra Tech Solutions, Hyderabad.

On his 2nd day, Mr. Ramana Murthy started the session with the concept of exception handling using python and then further elaborated the session by focusing on packages like numpy, pandas, matplotlib (for data visualization). He also taught the participants on how to read a dataset using predefined packages.



Mr.Ramanamurthy delivering a lecture on python packages

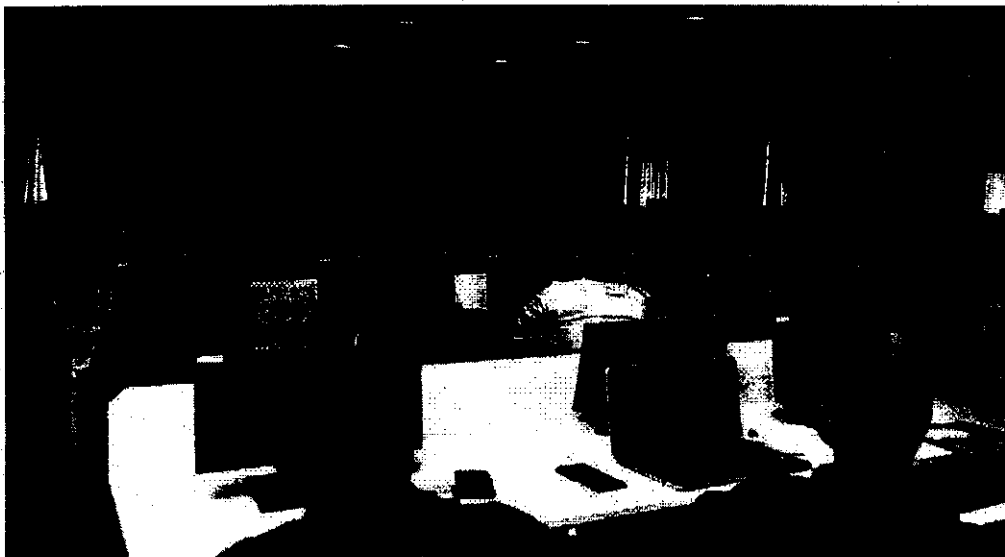
Date : 5th Feb, 2020

Technical Session: 9

Topics: Machine Learning using Python

Resource Person: Mr. Ramana Murthy, Senior Vice President, CodeTantra Tech Solutions, Hyderabad.

On the third day, Mr. Ramana Murthy started the session with a good introduction of machine learning. He continued the session by introducing the concepts of linear, polynomial and multiple regression to the faculty participants. The session was formally ended with the vote of thanks given by Mrs.A.Aparna, Assistant Professor, CSE Dept.



Mr.Ramanamurthy delivering a lecture on Machine Learning using python

Date: 6th Feb, 2020

Technical Session: 10

Topics: Deep Learning

Resource Person: Dr.K.V.Kadambari, NITW, Warangal

Mrs.A.Aparna, Assistant Professor, CSE Department has commenced the session by introducing the resource person, Dr.K.V.Kadambari to faculty participants. Then the resource person started the session with an introduction of Deep Learning and various algorithms with hands-on training. She also discussed about CNN (Convolutional Neural Network) and RNN(Recurrent Neural Network) concepts of deep learning. The session was formally ended with the vote of thanks.



Dr.Kadambari delivering a lecture on Deep Learning

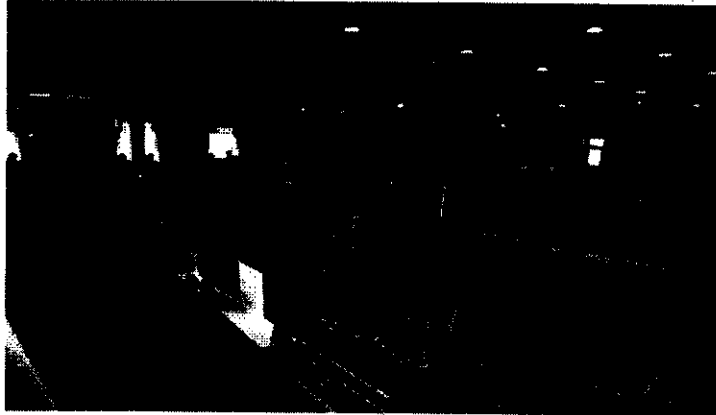
Date : 7th Feb, 2020

Technical Session: 11

Topics: Optimization Techniques - Differential Evaluation Algorithm, IWO(Invasive Weed Optimization), PSO(Particle Swarm Optimization), COCO Search.

Resource Person: Dr. G. Kiran Kumar,Assistant Professor,NIT, Tadepalligudem

Mrs.A.Apama, Assistant Professor, CSE Department has commenced the session by introducing the resource person, Dr. Kiran Kumar to faculty participants. After that, the resource person started the session with a brief introduction of Differential Evaluation Algorithm, and then further continued the session by teaching the concepts of IWO (Invasive Weed Optimization), PSO(Particle Swarm Optimization) and COCO Search. The session was formally ended with the vote of thanks.



Dr. G. Kiran Kumar delivering a lecture on Optimization Techniques

Date: 8th Feb, 2020(FN)

Technical Session: 12

Topics: Orange Tool

Resource Person: Dr.G.V.S.N.R.V Prasad, Professor of CSE & Vice Principal - Academics, Gudlavalleru Engineering College.

Mrs.A.Aparna, Assistant Professor, CSE Dept has commenced the session by introducing the resource person to faculty participants. Dr.G.V.S.N.R.V Prasad, Professor of CSE & Vice Principal Academics, GEC gave a lecture on Orange Tool.



Dr.G.V.S.N.R.V Prasad giving a lecture on Orange Tool

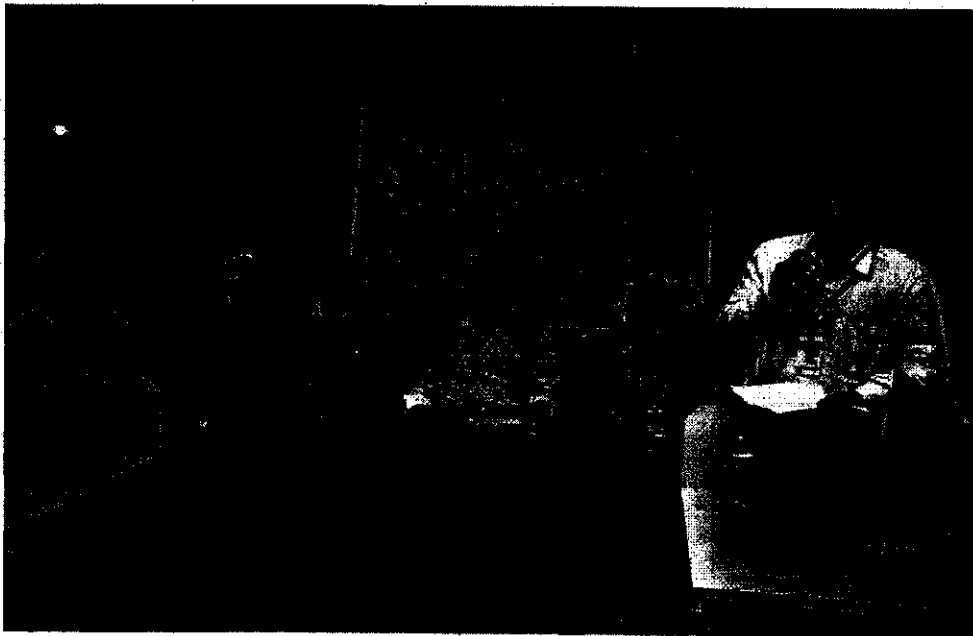
Date : 8th Feb, 2020 (AN)

Examination

A final exam was conducted in the afternoon session to evaluate the performance of the participants in the last day of FDP.

Valedictory Function

Mrs.A.Aparna, Assistant Professor, CSE Department has commenced the session by welcoming all the dignitaries and faculty participants. Dr.M.Babu Rao, Professor & Mentor, CSE Department expressed his gratitude towards AICTE for their sponsorship. He then appreciated the management of the college for their immense support in providing required resources to FDP. He then gave his regards to all the faculty members of the department, technical staff and participants of FDP for making this event a grand success. Dr.S.Narayana, HoD, CSE Department thanked the college management for their support and then congratulated the coordinator for successful conduction of the FDP. Dr.G.V.S.N.R.V.Prasad, Vice Principal - Academics congratulated the coordinator for the effective implementation of the FDP and the faculty participants for their active participation. Dr.P.Ravindra Babu, Principal thanked AICTE for the sponsorship and congratulated the coordinator of the FDP Dr.M.Babu Rao, Professor & Mentor, CSE Dept for successful conduction of the programme. He also congratulated all the participants who attended this FDP from various colleges.



Vote of Thanks by Dr.M.Babu Rao, Professor & Mentor, CSE Department

Dr. G. Kiran Kumar, Assistant Professor, NIT, Tadepalligudem shared his happiness in being part of the program as a resource person and then congratulated the Principal of GEC,

Dr.P.Ravindra Babu for the effective conduction of the FDP in a rural place like Gudlalleru. Later the faculty participants were asked to give their feedback on the FDP. Finally certificates were awarded to the participants from the hands of college officials and resource person of the day. Finally, the session was formally ended with the vote of thanks.



Certificate Distribution

Dr.M.Babu Rao
Coordinator, Professor & Mentor, CSE

Dr. M. BABU RAO
Professor & Mentor (AS & A)

Dept. of Computer Science and Engineering
Gudlalleru Engineering College
Seshadri Rao Knowledge Village
GUDLALLERU-521356

Dr.D.N.V.S.L.S.Indira
Associate Professor, CSE

Associate Professor,
Computer Science and Engineering,
Gudlalleru Engineering College,
GUDLALLERU - 521 356

Dr.S.Narayana
Professor & HOD, CSE

Dr. S. NARAYANA
Professor & Head

Dept. of Computer Science and Engineering
Gudlalleru Engineering College
Seshadri Rao Knowledge Village
GUDLALLERU-521356



Dr.Ch.Kavitha
Professor & HOD, IT

Dr. CH. KAVITHA
Professor & Head,

Dept. of Information Technology,
Gudlalleru Engineering College,
Seshadri Rao Knowledge Village,
GUDLALLERU - 521 356.

(Dr.P.Ravindra Babu)
Principal

PRINCIPAL

Gudlalleru Engineering College
GUDLALLERU-521356

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, Gudlavalleru - 521 356.

Department of Information Technology

REPORT ON AICTE SPONSORED TWO WEEK FDP

ON

“DATA SCIENCE AND DATA ANALYTICS THROUGH PYTHON & R PROGRAMMING”

FDP was inaugurated on 27th Jan, 2020 by Dr.P.Ravindra Babu, Principal, Gudlavalleru Engineering College, Dr.B.Karuna Kumar Vice-Principal Administration, Gudlavalleru Engineering College, Dr.G.V.S.N.R.V.Prasad, Vice-Principal Academics, Gudlavalleru Engineering College, Gudlavalleru, Dr.S.R.K.Reddy, Advisor to management, Gudlavalleru Engineering College, Dr.M.V.L.N.Raja Rao, Professor & Mentor, IT Dept, Dr. Ch.Kavitha, Coordinator of the FDP, HoD , IT Dept.

Mrs.P.Naga Sravanthi, Assistant Professor, IT Dept has welcomed all the dignitaries and delegates. In her welcome speech, she highlighted the importance and objectives of organizing this Faculty Development Program.

On this occasion, Dr.P.Ravindra Babu, Principal, Gudlavalleru Engineering College, in his address, described all the previous workshops being organized by the institute. This type of FDP makes the people from various institutes and eminent resource persons to join together to share their knowledge and promote research activities. He mentioned Data Science is one of the emerging Technology and knowledge acquired in this type of technologies may helps for publications and gives an ideas for future research works. He felt Happy to conduct this type FDPs in our college and he congratulated all the principals who have sponsored their faculty for this FDP.

Dr.B.Karuna Kumar, Vice-Principal Administration, Gudlavalleru Engineering College, described the relation between Data Science and Data Analytics the importance of this in Decision Making. He congratulated and encouraged the department to conduct this type of FDPs.

Dr.G.V.S.N.R.V.Prasad, Vice-Principal Academics, Gudlavalleru Engineering College, Gudlavalleru, in his speech felt happy to be a part of the FDP and suggested the Faculty participants to make the best use of this opportunity of learning.

Dr.Ch.Kavitha, Coordinator of the FDP, HoD, IT Dept, in her address, welcomed all the dignitaries and Faculty participants and emphasized the following points – the importance of data science in research work and how it is important for a Faculty to be aware of all the emerging technologies, practical learning is as much important as the theoretical learning is. This is the sole responsibility of the teachers, who transmits their theoretical and practical knowledge to their academic circles and students. So, it is essential to develop an academicians that is capable of early identifying the thrust areas of research.



(Dr.CH.KAVITHA)
Coordinator, HoD,IT Dept

GUDLAVALLERU ENGINEERING COLLEGE
(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, Gudlavalleru – 521356, Krishna District (A.P.)
Department of Business and Management Studies

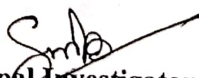
Dt: 30-12-2019.

Report on *“Exploring Marketing Opportunities for Handicrafts with the Emerging Trends in Retailing- A study with Special Reference to Kalamkari Fabrics in Krishna District, Andhra Pradesh”*.

Name of the Faculty	Project Title	Funding Agency	Amount Rs.	Amount Utilized Rs.	Duration
Dr. S. Ramesh Babu	Exploring Marketing Opportunities for Handicrafts with the Emerging Trends in Retailing- A study with Special Reference to Kalamkari Fabrics in Krishna District, Andhra Pradesh.	UGC-SERO	1,25,000/-	1,23,496/-	Two Years Nov-2017 to Nov-2019

Glimpse of the study:

Handicrafts have been an integral part of Indian culture and heritage, reflecting the artistic prowess and rich traditions of the country. In recent years, the global demand for handmade, culturally significant products has seen resurgence, with consumers valuing authenticity and uniqueness over mass-produced items. Kalamkari fabrics, a traditional art form from Krishna District, Andhra Pradesh, exemplify this trend, known for their exquisite hand-painted designs and vibrant colours. This study aims at finding marketing opportunities available for Kalamkari fabrics in light of the emerging trends in retailing. The research will not only promote the heritage and craftsmanship of the region but also contribute to the economic empowerment of local artisans. The retail landscape has witnessed a significant transformation in recent years due to several emerging trends. E-commerce, for instance, has exploded in popularity, offering a vast platform for artisans and craftsperson's to showcase and sell their products to a global audience. Moreover, there has been a growing demand for sustainable and ethically sourced products, aligning with the eco-conscious mindset of modern consumers. In this context, Kalamkari fabrics, crafted using traditional techniques and natural dyes, perfectly align with the trend of sustainable and eco-friendly products. This study on marketing opportunities for Kalamkari fabrics in Krishna District, Andhra Pradesh, comes at a crucial juncture when the world is increasingly valuing handmade, sustainable, and culturally rich products. By leveraging emerging trends in retailing, such as e-commerce, sustainability, and ethical branding, this research aims to rejuvenate and promote the exquisite art of Kalamkari fabrics while uplifting the lives of local artisans and contributing to the economic growth of the region. This study holds the potential to serve as a model for reviving and marketing traditional handicrafts across India and the world, fostering a deeper appreciation for the nation's cultural heritage.


Principal Investigator
Dr. S. Ramesh Babu.

Gudlavalleru Engineering College
(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
SeshadriRao Knowledge Village, GUDLAVALLERU
Department of Mechanical Engineering

Dt.: 25-07-2019

Report on "AICTE-MODROB" on "Processing and Characterization of Nano Composite Materials" during A.Y 2017-18 & 2018-19"


Name of the Faculty	Title of the Grant	Funding Agency	Amount Rs.	Amount Utilized Rs.	Duration
Dr. A. Jawahar Babu	Processing and Characterization of Nano Composite Materials	AICTE MODROBS	5,00,000/-	4,97,447/-	2 years

Glimpse of the MODROBS:

Now a days the significance of the composites is increasing abnormally keeping in view of strength to weight ratio and stiffness in various applications. Stir casting machine is used to fabricate the composites at various proportions of base material and reinforcement materials. The fabrication of composites using stir casting is the low cost manufacturing process. The mechanical, physical, wear properties of various composite is determined using various testing methods. These wear properties are used to find out the life of the component under various conditions of load, speed and sliding distance. This data can be used by the manufacturer to fabricate the mechanical components.

Purpose for which utilized at present:

- Under graduate students are using this equipment for their project work
- Post graduate students are using this for characterization of metal matrix composites as a part of their project work.
- Faculty members are carrying out their research work.


Principal Investigator
Dr. A. Jawahar Babu

Gudlalleru Engineering College
(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
SeshadriRao Knowledge Village, GUDLAVALLERU
Department of Mechanical Engineering

23/10/2019

*Report on "AICTE-ISTE Sponsored Refresher Course in Computational Fluid Dynamics
18 to 23 June 2018."*


Name of the Faculty	Title of the Grant	Funding Agency	Amount Rs.	Amount Utilized Rs.	Duration
Dr. M.R.Ch. Sastry	AICTE-ISTE Sponsored refresher course in computational Fluid Dynamics 18 to 23 June 2018	AICTE	3,00,000/-	2,34,114/-	One Week

Glimpse of the course:

Computational Fluid Dynamics (CFD) is a tool being extensively used in research as well as in industry for solving complex fluid flow and heat transfer problems. It has grown from a mathematical curiosity to become an essential tool in almost every branch of fluid dynamics from aerospace propulsion to weather prediction. This refresher course is intended to provide insight into the principles and engineering applications of CFD with hands on training in CFD modeling. This course will help the faculty to teach the subject at his / her workplace and also be helpful to pursue research in the fields of fluid dynamics and heat transfer.

Course Content:

- Introduction to CFD.
- Governing equations of fluid flow and heat transfer.
- Introduction to discretization methods.
- Solution techniques for system of algebraic equations.
- Finite difference and finite volume methods for fluid flow and heat transfer problems.
- Solution techniques for Navier-Stokes equation.
- Introduction to commercial CFD code.
- Practical guidelines for CFD simulation and analysis.


Principal Investigator
Dr. M.R.Ch. Sastry

Gudlavalleru Engineering College

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, GUDLAVALLERU

Department of Mechanical Engineering

Report on “Experimental analysis of solar desiccant cooling system with different desiccants”

Name of the Faculty	Project Title	Funding Agency	Amount Rs.	Amount Utilized Rs.	Duration
P. Tejomurthi	Experimental analysis of solar desiccant cooling system with different desiccants	UGC – SERO	2,30,000/-	2,17,500/-	Two Years Nov. 2017 to Nov. 2019

Glimpse of the study:

Desiccant dehumidifier is a suitable device in humid control working places, in the humidity controlled method in the air by a chemical absorption technique. Solar air conditioning potentially offers an elegant model of a clean sustainable technology. Solar cooling systems have the advantages of using absolutely harmless working fluids such as water or solution of certain salts system, desiccant material attract moisture based on different vapour pressure, due to their enormous affinity to sorbs water and considerable ability to hold water. In this present work solar assisted liquid desiccant technique operated as a cross flow method, here liquid CaCl_2 as the desiccant agent. A suitable evacuated solar thermal energy system used for regenerator the system operated variable mass flow rate of air, desiccant concentration and desiccant temperature. The effectiveness of dehumidifier checked, it shows an inversely proportion to mass flow rate i.e., decreased with increase in mass flow rate, desiccant temperature, and the effectiveness of the system increased by increase in desiccant concentration.

P. Tejomurthi 30/10/19
Principal Investigator
P. Tejomurthi