



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade
NBA Accreditation for B.Tech. CE,EEE,ME,ECE,CSE,EIE,IT,AME, M.Tech. STRE, PE, AMS, SWE Programmes
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF (2022) 113 Rank in Engineering Category
College with Potential for Excellence by UGC, JNTUH-Recognized Research Centres:CE,EEE,ME,ECE,CSE
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Electronics and Communication Engineering

Guest Lectures conducted under AICTE sponsored Distinguished Chair Professor (DCP) scheme

S. No.	Title	Date	No. of Participants	YouTube Links
1.	Higher Education and National Development	31.05.2022	102	https://youtu.be/eh5VZK9FT5o
2.	Relevance of Nuclear Energy in Achieving Net Zero Emissions	25.06.2022	70	https://youtu.be/5ry2mfwZPiY
3.	Cillage: A Knowledge Inspired Ecosystem for Transforming Rural India	11-07-2022	60	https://youtu.be/wT05gNTbSw4



Speaker: Padma Vibhushan Sri. Anil Kakodkar

AICTE- Distinguished Chair Professor,
Chancellor, Homi Bhabha National Institute,
Chairman, Rajiv Gandhi Science & Technology Commission,
Former Chairman, Atomic Energy Commission,

AICTE-Distinguished Chair Professor scheme

Report on Guest lecture 1

Topic : **Higher Education and National Development**

Date : **31.05.2022**

Under the AICTE - Distinguished Chair Professor (DCP) scheme, the Institution has organized the first lecture of **Padma Vibhushan Sri Anil Kakodkar**, titled '**Higher Education and National Development**' between 2.00 PM to 4.00 PM on 31.05.2022 (Tuesday) for all undergraduate students and faculty at the college. The event was coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE department, and the lecture and interaction were conducted online through Google Meet platform. The interaction was very productive and a total of 102 students along with other faculty attended the lecture making the session a great success.

The session began with a brief history and achievements of the institution presented by Dr K. Anuradha, Dean academics. The session was moderated by Dr V. Priyanka from department of ECE, introduced the guest to students. A welcome note by Mrs. L. Dharma Teja, Faculty of Department of ECE. The vote of thanks is given by Dr. Naga Deepa Ch. Faculty of ECE department. The main aim of this session is to enlighten the students and faculty on the significance and essence of Higher Education and National Development as a foundation of hope and inspiration for the next 25 years to build a new India.

Upshots from the lecture:

- Human resource development towards an enlightened society
- Strengthening human values to eliminate exploitation
- How a university contributing to National Development beyond Human Resources?
- Ecosystem for nurturing excellence
- Key Education Challenges in specific Indian context
- Enabling environment by R&D, Technology Product / Demonstration, Incubation – start-ups, Research Park, Venture capital, Triple helix framework for large platforms, etc.

Gallery

Higher Education and National Development

Anil Kakodkar
 AICTE Strategic and Chief Professor
 Chairman, Rajya Gandhi Seminar on Technology Curriculum,
 Eastern Chatterjee, Indian Institute of Technology
 WM Vignana Jayala Institute of Engineering & Technology

Number of universities in the Top 100 of global rankings
 (World Economic Forum's Global Competitiveness Index)

Country	Count
USA	137
China	68
South Korea	15
Singapore	10
India	1

2:21 PM | Guest Lecture under AICTE-DCP scheme

Human Resource Development

Towards an enlightened society

Expand Frontiers of Knowledge | **Build Human Capability**

Humane Society | **Technology Empowerment**

Knowledge, Innovation, Creativity, Quality, Ethics, Environment

2:29 PM | Guest Lecture under AICTE-DCP scheme

Ecosystem for nurturing excellence

Institutional values and yardstick for measuring excellence are interlinked.

Weighted Impact:

- On peers in the core area being pursued
- On the down stream partners
- On society / industry

Weightages to be determined through an understanding between the individual and the institution

Foundations of research, New Innovative Product, Revolutionary/ Disruptive Development, Applied research, Improving an existing product, Revolutionary Development

SAI PRANEETH has left the meeting

3:13 PM | Guest Lecture under AICTE-DCP scheme

Report on Guest lecture 2

Topic: **Relevance of Nuclear Energy in Achieving Net Zero Emissions**

Date: 25.06.2022

Under the AICTE - Distinguished Chair Professor (DCP) scheme, the Institution has organized the Second lecture of **Padma Vibhushan Sri Anil Kakodkar**, titled '**Relevance of Nuclear Energy in Achieving Net Zero Emissions**' at 3.00 PM on 25.06.2022 (Saturday) for all undergraduate students and faculty at the college. The event is coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE department, and the lecture is conducted online through Google Meet platform. The interaction is very productive and a total of 70 students along with other faculty attended the lecture making the session a great success.

The session is moderated by Dr. Naga Deepa Ch. from department of ECE, introduced the guest to students. A welcome note and vote of thanks is given by Mrs. K. Manasa, faculty of Department ECE. The main aim of this session is to enlighten the students and faculty on the significance and essence of Green energy, clean energy, etc.

Conclusions from the Lecture:

- Green energy transition needs a major rethink!
- Share of electricity would thus need to go up
- Clean energy consumption would need to increase ~ 80 times
- Discussion on Key elements of suggested sustainable clean energy policy
- Encouraged to develop new technologies even while accelerating approach to net zero for sustainable and cost competitive energy security
- Ecosystem for technology leadership

Gallery

The screenshot shows a Google Meet window with a presentation slide. The slide content is as follows:

Very rapid scale up of clean energy resources

Emphasis on Gas economy

Major energy transition in user segments

- > Elect.
- > Hydrogen
- > Bio-energy

Current energy balance and transition to developed (by 2050) and decarbonised (by 2070) India

Energy Source	Current (2020)	2050	2070
Coal	6,482,289	82.8	15.6
Oil	11,004,910	15.6	1.2
Nuclear	15,110	1.2	1.2
Hydro	15,040	1.2	1.2
Biomass	12,223	1.2	1.2
Crude	2,842,008	27.6	1.2
Wind	15,275,000	156.0	1.2
Natural gas	18,810	5.0	1.2
Solar	171,170	1.2	1.2
Total	19,20,000	190	190

The energy mix that we need to adopt in my view would need to be

- > Residential & Agricultural (31.8% of total current energy use) → Electricity* + Biomass*
- > Industrial (57.7% of —do—) → Electricity + Hydrogen + Hydrocarbons** + Coal**
- > Premises (10.5% of —do—) → Electricity + Hydrogen

* Decentralised generation, boost to rural economy, to be dealt with a technology agnostic way
** Needing CCU/CCUS

Participants visible in the meeting: MANASA K, CHIN TU, GUDIPI THIRUMAL, Rajendra Prasad S, Naga deepa Choppak... (presenting), Rutwik Lee, and 55 others.

meet.google.com/fhq-otry-giu

REC Naga deepa Choppakatla is presenting

Green energy transition needs a major rethink!

- India has committed to reach net zero emission by 2070 at Glasgow.
- By that time, India can be expected to surpass annual per capita energy consumption level necessary to be on par with the best in world. The threshold per capita energy consumption taking into account improvement of efficiency as a result of clean energy transition could be **10000 kWh/capita/yr**.
Kgoe corresponding to a total energy requirement of **28000 TWh/yr**. (up from present level of ~6580 TWh/yr = CAGR 4.78%).
- Total assessed renewable energy potential in India @ **5855 TWh/yr*** (*Sukhatme, Current Science, Vol. 103, No. 10, 25 November 2012 - includes Solar, Wind, small and large Hydro, Biomass and Tidal). While there may be additional renewable energy potential (particularly the potential of bio-energy @ 2500 TWh/yr as against 60 TWh/yr factored in above assessment), the gap is too large to bridge. The only other non-emitting energy source is **nuclear**. It can meet our needs and is also inevitable for optimum & stable grids.

3:17 PM | AICTE-OCP scheme - Second Lecture on 25-0...

meet.google.com/fhq-otry-giu?pli=1&authuser=1

REC Naga deepa Choppakatla is presenting

Surplus Biomass useable as energy

Sr. No.	Biomass type	Quantity	Calorific value	Energy	Remarks
1	Firewood (sustainable production)	~100 MT*	17,000-22,000 KJ/Kg	~ 550 TWh	*IA. Bi. S.K. Chakrabarti. "Current and future of firewood and timber in India: March 2018-January 2019" 279
2	Animal-dung	2600 MT of wet dung or 150-250 b Cu. M of biogas	6-8 MJ/ Kg(dried)	~ 1400 TWh	*Energy 2017, 10(7), 847; https://doi.org/10.3390/en10070847
3	Surplus agri. residue	178 MT 51.3 b Lt ethanol	~10 MJ / Kg ~ 26.8 MJ/kg for ethanol	~ 500 TWh ~ 278 TWh	https://link.springer.com/journal/12145/9/34455
5	MSW	~ 60 MT	~7 MJ/kg	~118 TWh	More then energy resource important useful to reduce public health management burden
6	Total			~ 2000 - 2500 TWh	Comparable to current petroleum product consumption in the country

Challenge - to use this energy resource in a manner that does not impact air quality and enables a healthy ecosystem.

3:32 PM | fhq-otry-giu

REC Naga deepa Choppakatla is presenting

Other critical technologies to be deployed

- Steam electrolysis (and also SOFC)
- Thermo-chemical splitting of water (Radiolysis of water could also be explored)
- Energy storage
- Production of hydro-carbon substitutes using hydrogen and bio-mass
- CCU&S to meet energy needs, meet emission targets and produce value

3:55 PM | fhq-otry-giu

Report on Guest lecture 3

Topic: **Cillage: A Knowledge Inspired Ecosystem for Transforming Rural India**

Date: 11.07.2022

Under the AICTE - Distinguished Chair Professor (DCP) scheme, the Institution has organized the third lecture of **Padma Vibhushan Sri Anil Kakodkar**, titled “**Cillage: A Knowledge Inspired Ecosystem for Transforming Rural India**” at 3.00 PM on 11.07.2022 (Monday) for all faculty at the college. The event is coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE department, and the lecture is conducted online through Google Meet platform. The interaction is very productive and a total of 60 faculty attended the lecture making the session a great success.

The session is moderated by Dr. Naga Deepa Ch. from department of ECE, introduced the guest to students. The main aim of this session is to enlighten the faculty on the significance and essence of city to village Knowledge transfer, etc. The speaker has been propagating the concept of CILLAGE, a knowledge-based ecosystem for bridging city and village gaps for technology enabled sustainable development in rural areas. The session is concluded by Dr. Chennakesava Rao, Director of advancements and vote of thanks is given by Dr K. Anuradha, Dean academics.

Conclusions from the lecture:

- Opportunities in rural domain
- Higher education institutions need to be both, knowledge creators as well as value creators
- Cillage ecosystem
- CILLAGE Architecture
- Ecosystem for technology leadership
- Science & Technology Resource centre (STRC) Gondwana University Gadchiroli

Gallery

The image shows a Google Meet gallery view of a meeting. The top section displays a grid of participant tiles. The 'People' list on the right includes:

- director advance...
- Dr. D Srinivasa Rao
- ganeshababu b
- HEAD ECE - VNRV... Meeting host
- Innovation VNRVJL...
- JAVANGULA VAM...
- JHANSI LAKSHMI ...
- KrishnaKumari N

The bottom section shows a different view of the gallery with Anil Kakodkar as the active speaker. The 'People' list on the right includes:

- RadhaKrishna G
- Anil Kakodkar
- Padmasree L
- sarath chandra k
- director advancement
- Dr. D Srinivasa Rao
- Anuradha K
- n
- 37 others
- You

Both screenshots show a meeting titled 'AICTE -DCP Scheme third lecture' at 16:03 and 16:05 respectively. The browser address bar shows the meeting URL: meet.google.com/hwd-eyhh-pym?pli=1. The Windows taskbar at the bottom indicates the time is 16:05 on 11-07-2022, with a temperature of 24°C and light rain.

Electronics and Communication Engineering

Guest Lectures conducted under AICTE sponsored Distinguished Visiting Professor (DVP) scheme

S.No.	Title	Date	No. of Participants
1.	Insights into IoT	17-11-2021	107
2.	Wireless Communication in the IoT	19-11-2021	120
3.	Edge Intelligence in IoT	29-11-2021	115
4.	Battery Life Enhancement in IoT devices	30-11-2021	95

Speaker: Distinguished Visiting Professor (DVP):



Sri. N. Venkatesh
Senior Director, Engineering
Silicon Labs

AICTE-Distinguished Visiting Professor scheme

Report

Guest Lecture -1

Topic: Insights into IoT

Date: 17-11-2021

Under the AICTE - Distinguished Visiting Professor (DVP) scheme, the Institution has organized the first lecture of **Sri. N Venkatesh**, titled '**Insights into IoT**' between 2.30 PM to 4.30 PM on 17.11.2021 (Wednesday) for all undergraduate students and faculty at the college. The event was coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE Department, the lecture and interaction were conducted online through Google Meet platform. The interaction was very productive and a total of 107 students along with other faculty attended the lecture making the session great success.


The session began with a brief history and achievements of the institution presented by Dr Rajendra Prasad. The session was moderated by Dr V. Priyanka from department of ECE, introduced the guest to students. A welcome note by Dr. Naga Deepa Ch., Faculty of Department of ECE. The vote of thanks is given by Mr Shabarinath B. Faculty of ECE department.

The main aim of this session is to enlighten the students and faculty on the significance IoT. The talk given by Venkatesh sir can be divided into two phases. In which phase 1 explains the architecture of IoT and phase 2 explains the areas of focus in the context of IoT. The structure of the IoT node can be mapped to a closed-loop control system with negative feedback. Modern IoT device is a System on chip (SoC) incorporating sensors, battery management, interface, I/O devices, Communication interface, and software controlling all these elements. IoT involves communication between various platforms using various protocols. It is important to know the key difference between Fog computing, Cloud computing, and Edge Computing which forms the modern-day computing framework for IoT. Sensors, 5G Communications Technology, Cloud Computing, Industrial IoT, Artificial Intelligence, Automobiles, and Wearables form the major focus areas in the context of IoT. It is important to realize the importance of IoT in modern-day recruitment for students and utilize the college life accordingly for success.

WhatsApp Fwd: INAE letter - nagadeepa... VNR Vignana Jyothi Institute of Meet - Insight into IoT PLAYING

https://meet.google.com/biy-vrav-uuh?authuser=1

REC N Venkatesh is presenting




भारतीय राष्ट्रीय अभियांत्रिकी अकादमी
Indian National Academy of Engineering

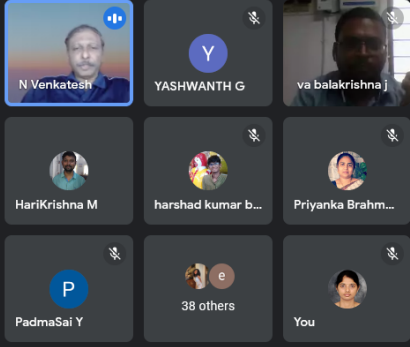
Insight into IoT

N.Venkatesh, FNAE

AICTE-INAE Distinguished Visiting Professor, MJCET
Sr. Director, Engineering, Silicon Labs, Hyderabad

nvenkatesh@ieee.org



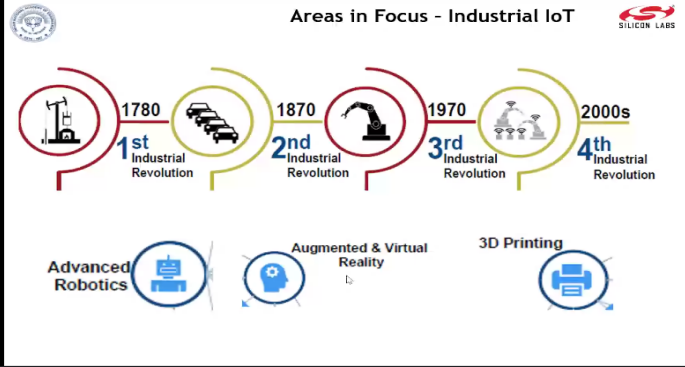


Participants: N Venkatesh, YASHWANTH G, va balakrishna j, HariKrishna M, harshad kumar b..., Priyanka Brahm..., PadmaSai Y, 38 others, You

14:39 | Insight into IoT

Windows Taskbar: Type here to search, 29°C Light rain, 14:39 17-11-2021

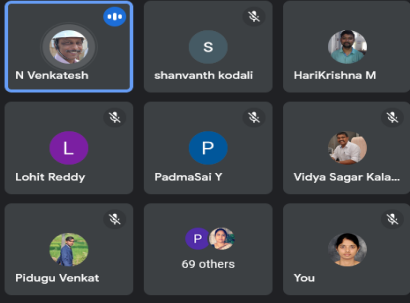
REC N Venkatesh is presenting



Areas in Focus - Industrial IoT

Timeline: 1780 (1st Industrial Revolution), 1870 (2nd Industrial Revolution), 1970 (3rd Industrial Revolution), 2000s (4th Industrial Revolution)

Key Technologies: Advanced Robotics, Augmented & Virtual Reality, 3D Printing



Participants: N Venkatesh, shanvanth kodali, HariKrishna M, Lohit Reddy, PadmaSai Y, Vidya Sagar Kals..., Pidugu Venkat, 69 others, You


15:22 | Insight into IoT

Windows Taskbar: Type here to search, 29°C Light rain, 15:22 17-11-2021

(3) WhatsApp Fwd: INAE letter - nagadeepa... VNRVIJETH | Home Meet - Insight into IoT PLAYING

https://meet.google.com/biy-vrav-uuh?authuser=1


REC N Venkatesh is presenting



Internships

INAE - Indian National Academy of Engineering
- For Students as well as Faculty!

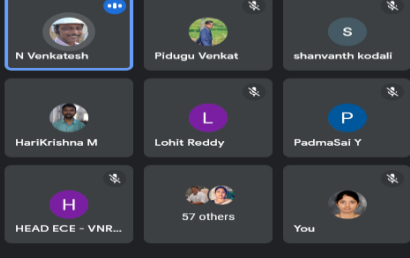
- INSA - Indian National Science Academy
- All IITs



Summer Fellowship Programme - 2020
Indian Institute of Technology Madras

Mentoring Of Engineering Students By INAE Fellows
Guidelines for Mentoring of Engineering Students by INAE Fellows

1. Objective
The objective of the Scheme is the mentoring of bright B.Tech./B.E. students by Fellows of INAE.
2. Eligibility
a) Meritorious 3rd /4th year B.E./B.Tech students from recognized Engineering Institutions are eligible under the scheme. The Mentor and the Engineering Student should not be from the same engineering institution, though they can be from two different institutions located in the same station. Candidates from any institutions/engineering colleges securing minimum 75% marks or minimum 7.5 CGPA only, are eligible for consideration for mentoring by INAE Fellows.
b) Engineering students from unrecognized private engineering colleges/institutions are not eligible for mentoring.



Participants: N Venkatesh, Pidugu Venkat, shanvanth kodali, HariKrishna M, Lohit Reddy, PadmaSai Y, HEAD ECE - VNR..., 57 others, You

15:44 | Insight into IoT

Windows Taskbar: Type here to search, 29°C Light rain, 15:44 17-11-2021

AICTE-Distinguished Visiting Professor scheme

Report

Guest Lecture- 2

Topic: WIRELESS COMMUNICATION IN THE IoT

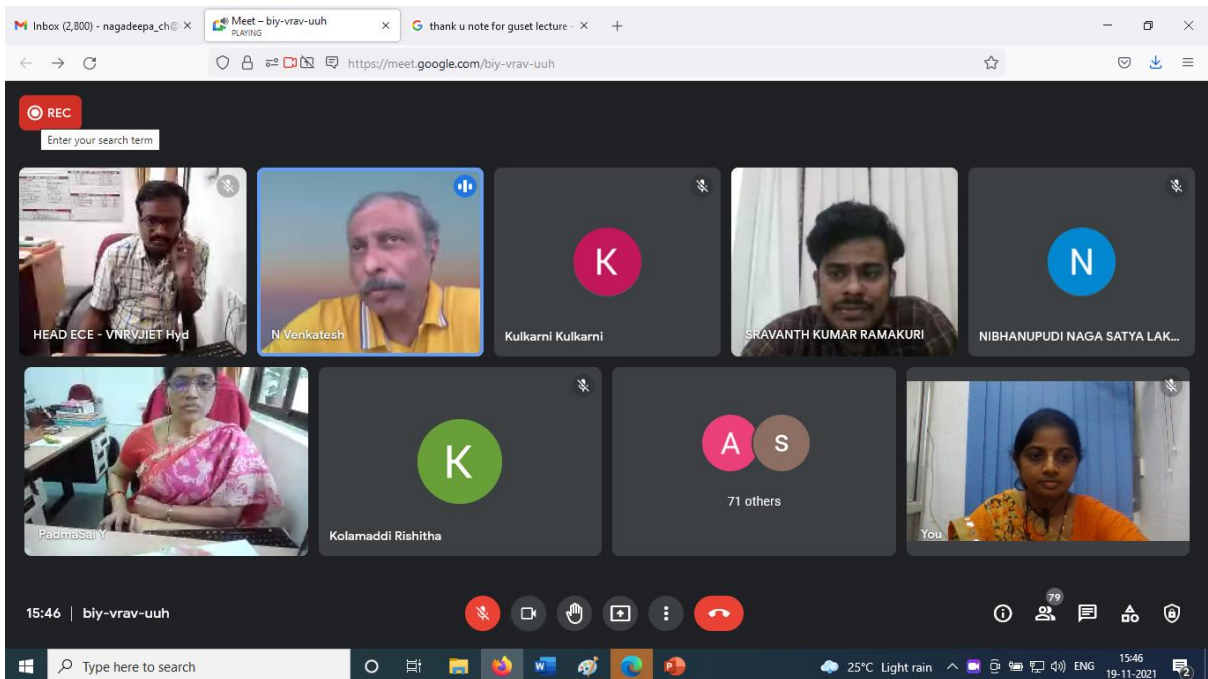
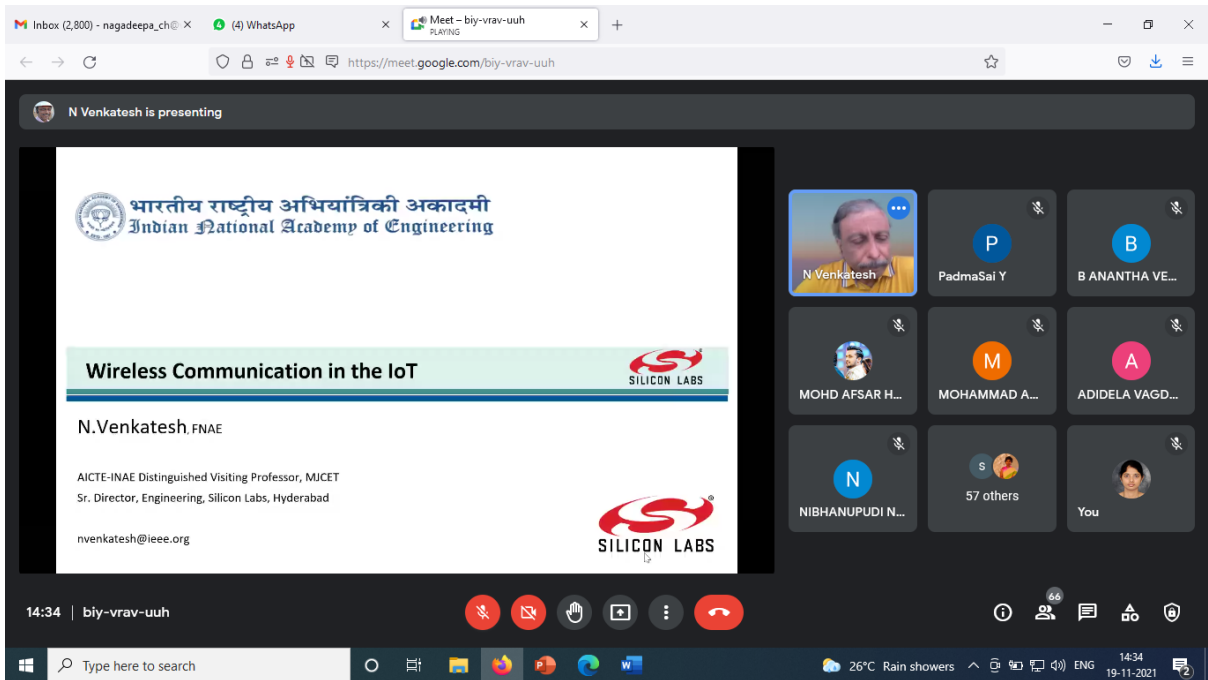
Date: 19-11-2021

Under the AICTE-Distinguished Visiting Professor (DVP) scheme, the Institution has organized the Second lecture of **Sri. N Venkatesh**, titled “**WIRELESS COMMUNICATION IN THE IoT**” between 2.30 PM to 4.30 PM on **19.11.2021 (Friday)** for all undergraduate students and faculty at the college. The event was coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE Department, the lecture and interaction are conducted online through Google Meet platform. The interaction was very productive and a total of 120 students along with other faculty attended the lecture making the session great success.

The session began with a brief history and achievements of the institution presented by Dr Rajendra Prasad. The session was moderated by Dr D. Sravanth Kumar from department of ECE, introduced the guest to students. A welcome note by Dr. Naga Deepa Ch., Faculty of Department of ECE. The vote of thanks is given by Dr. Y. Padma Sai, Professor of ECE department.

The main aim of this session is to enlighten the students and faculty on the significance of Wireless Communications in IoT. The talk given by Venkatesh sir about Wireless standards, protocols used in IoT.

Gallery



AICTE-Distinguished Visiting Professor scheme

Report

Guest Lecture- 3

Topic: Edge Intelligence in IoT

Date: 29-11-2021

Under the AICTE-Distinguished Visiting Professor (DVP) scheme, the Institution has organized the third lecture of **Sri. N Venkatesh**, titled “**Edge Intelligence in IoT**” between 2.30 PM to 4.30 PM on 29.11.2021 (Monday) for all undergraduate students and faculty at the college. The event was coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE Department, the lecture and interaction are conducted online through Google Meet platform. The interaction was very productive and a total of 115 students along with other faculty attended the lecture making the session a great success.

The session began with a brief history and achievements of the institution presented by Dr Rajendra Prasad. The session was moderated by Mrs. K. Manasa from department of ECE, introduced the guest to students. A welcome note by Dr. Naga Deepa Ch., Faculty of Department of ECE. The vote of thanks is given by K. Manasa, Assistant Professor of ECE department.


The main aim of this session is to enlighten the students and faculty on the significance of Edge Intelligence in IoT. The lecture started with informing how data is getting overloaded in the IoT as billions of devices sending out data every few seconds/minutes/days. Also analysed how data is being stored and how it is analyzed and as a result there is an exponential growth of data with the growth of IoT devices. And next participants were able to understand what to do for that increased load problem with analytics for better understanding of either health of the system, customer preferences, reliability of the system, trends, and Lacunae. And for the analytics for immediate action one requires corrective measures, warnings and alerts and identification of safety and security issues.

And to do analysis one should always take the help of Artificial intelligence where AI is a technique which enables machines to mimic human behaviour. And participants learned about role of Machine learning here which is a subset of AI techniques which use statistical methods to enable machines TI to improve with experience. Next also discussed about Training and inference and Road map from F and S. Finally discussed about how important it is for brining intelligence to the Edge.

Audit report of CE dept_criteria x Meet - biy-vrav-uuh PLAYING AE evaluation reports and Obser x (1) WhatsApp Edge Intelligence - Google Search x

https://meet.google.com/biy-vrav-uuh

REC N Venkatesh is presenting




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Indian National Academy of Engineering

Edge Intelligence in the IoT

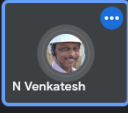

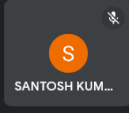
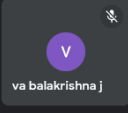



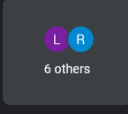
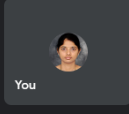
N.Venkatesh.FNAE

AICTE-INAE Distinguished Visiting Professor, MJCET
Sr. Director, Engineering, Silicon Labs, Hyderabad

nvenkatesh@ieeee.org



SILICON LABS

 N Venkatesh	 PadmaSai Y	 SANTOSH KUM...
 va balakrishna j	 SWETHA REDDY ...	 mangathayaru N
 MANASA K	 6 others	 You

15:10 | biy-vrav-uuh

Type here to search

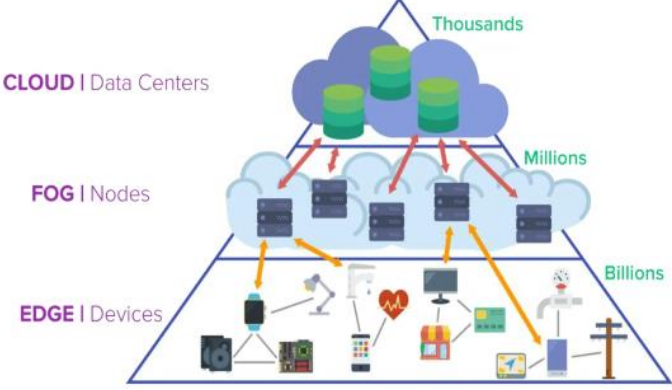
25°C Cloudy

15:10 29-11-2021

REC N Venkatesh is presenting

Enter your search term

From the Cloud to the Edge....



The diagram shows a pyramid structure representing the hierarchy of computing. At the top, a cloud contains three server icons, labeled 'Thousands' and 'CLOUD | Data Centers'. Below this, a layer of server racks is labeled 'Millions' and 'FOG | Nodes'. At the bottom, a layer of various IoT devices (smartphone, laptop, car, etc.) is labeled 'Billions' and 'EDGE | Devices'. Red arrows point upwards from the edge devices to the fog nodes, and then to the cloud data centers, indicating the flow of data.

AICTE-Distinguished Visiting Professor scheme

Report

Guest Lecture -4

Topic: Battery Life Enhancement in IoT Devices

Date: 30-11-2021

Under the AICTE-Distinguished Visiting Professor (DVP) scheme, the Institution has organized the fourth lecture of **Sri. N. Venkatesh**, titled “**Battery Life Enhancement in IoT devices**” between 3.15 PM to 4.15 PM on 30.11.2021 (Tuesday) for all undergraduate students and faculty at the college. The event was coordinated by Dr. Rajendra Prasad Somineni, HoD and Professor of ECE Department, the lecture and interaction are conducted online through Google Meet platform. The interaction was very productive and a total of 95 students along with other faculty attended the lecture making the session great success.

The session began with a brief history and achievements of the institution presented by Dr Rajendra Prasad. The session was moderated by Mrs. Y. Manasa from department of ECE, introduced the guest to students. A welcome note by Dr. Naga Deepa Ch., Faculty of Department of ECE. The vote of thanks is given by Y. Manasa, Assistant Professor of ECE department.

The main aim of this session is to enlighten the students and faculty on the significance of Battery Life Enhancement in IoT devices. The lecture started with internal devices in IoT and the importance of battery life in IoT.

Gallery

The screenshot shows a Google Meet interface with a slide titled "Inside an IoT Device". The slide contains a block diagram of an IoT device. At the center is a "SoC (System-on-Chip)" block containing a "Processor" and "Memory". To the left, "USB" and "Battery Management" are connected to the SoC. To the right, "Bluetooth", "Audio", and "WLAN" are connected. Below the SoC, "AVD" and "Sensors" are connected. A callout box labeled "Software" lists: "Application", "Sensor management", "Connectivity", "Battery Management", and "Configuration". Another callout box labeled "Accelerometer Pressure Light" points to the "Sensors" block. The Meet interface shows a "REC" button, a network connection warning, and several participant tiles including N Venkatesh, MANASA K, RAMYA GUJJULA, and Ramadevi M. The system tray at the bottom shows the time as 15:19 and the weather as 26°C Cloudy.

The screenshot shows a Google Meet interface with a slide titled "Battery Life in WLAN – Saving Time". The slide lists the following points:

- Packet duration of a 1.5 kB packet
 - @54 Mbps: 244 us
 - @36 Mbps: 356 us
 - @24 Mbps: 520 us
 - @1 Mbps: > 12 ms!
- Duration of overhead
 - Relatively independent of data rate
- Use of larger packets (802.11n packet aggregation)
 - 4 kB packet @65 Mbps: 532 us

Below the text is a diagram of a "Transfer Cycle" showing the sequence of events: TCP Packet (Rx), SIFS, WLAN ACK (Tx), DIFS, TCP ACK (Rx), SIFS, WLAN ACK (Tx), DIFS, and TCP Packet (Rx). The diagram illustrates the interleaving of WLAN and TCP acknowledgments to save time.

The Meet interface shows a "REC" button and a grid of participant tiles including N Venkatesh, Rama Krishna M, MANASA K, ravi kumar rayala, sarath chandra k, and RAMYA GUJJULA. The system tray at the bottom shows the time as 15:54 and the weather as 26°C Mostly cloudy.