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/wTO5gNTbSw4 |

**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.

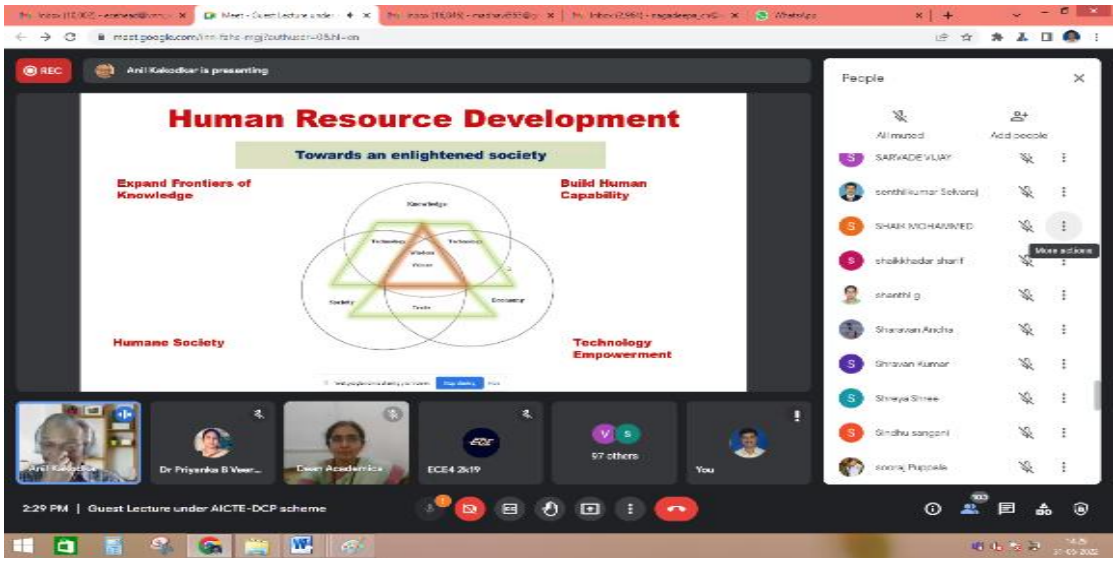
The session began with a brief history and achievements of the institution presented by Dr K. Anuradha, Dean academics. The session was moderated by Dr V. Priyanka from department of ECE, introduced the guest to students. A welcome note by Mrs. L. Dharma Teja, Faculty of Department of ECE. The vote of 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.

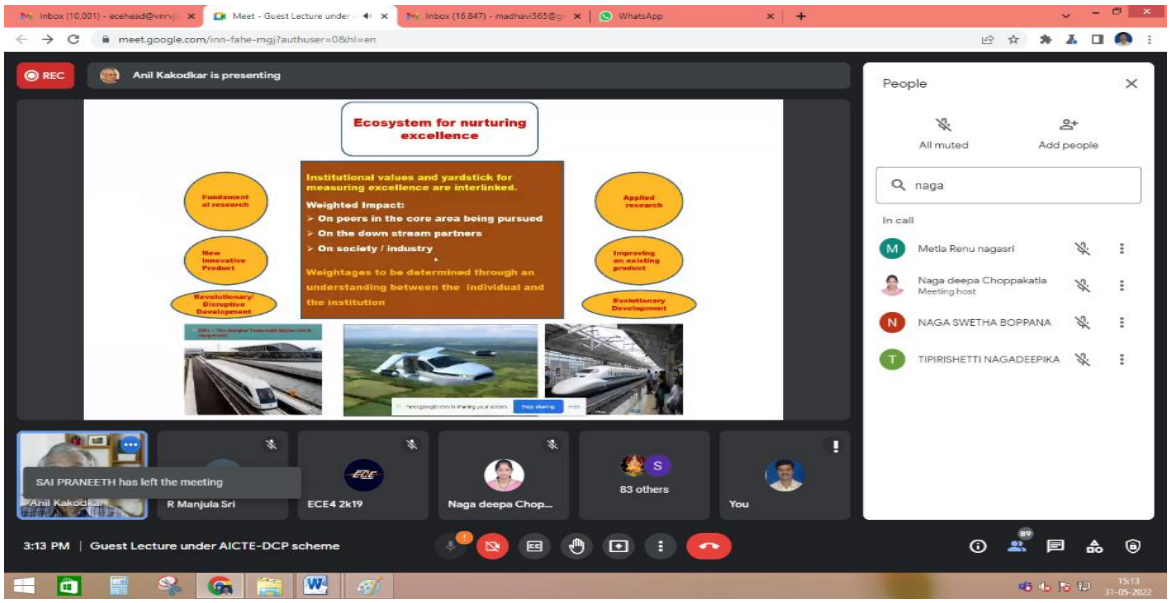
## Upshots from the lecture:

- 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


Anil Kakodkar is presenting
Higher Education and National Development
Anil Kakodkar
Est. 1909
89 others
2:21 PM Guest Lecture under AICTE-DCP scheme


Anil Kakodkar is presenting
Human Resource Development
Towards an enlightened society
Expand Frontiers of Knowledge
Build Human Capability
Humane Society
Technology Empowerment
People
97 others
2:29 PM | Guest Lecture under AICTE-DCP scheme


Anil Kakodkar is presenting
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
People
naga
In call
Metla Renu nagasri
Naga deepa Choppakatla
Meeting host
NAGA SWETHA BOPPANA
TIPIRISHETTI NAGADEEPIKA
SAI PRANEETH has left the meeting
83 others
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

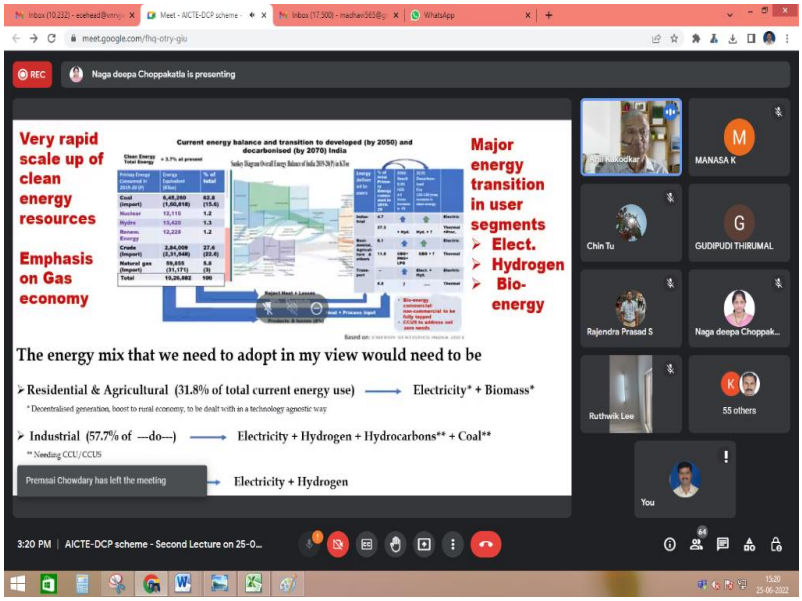
Under the AICTE - Distinguished Chair Professor (DCP) scheme, the Institution has organized the Second lecture of **Padma Vibhushan Sri Anil Kakodkar**, titled '**Relevance of Nuclear Energy in Achieving Net Zero Emissions**' at 3.00 PM on 25.06.2022 (Saturday) for all undergraduate students and faculty 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.

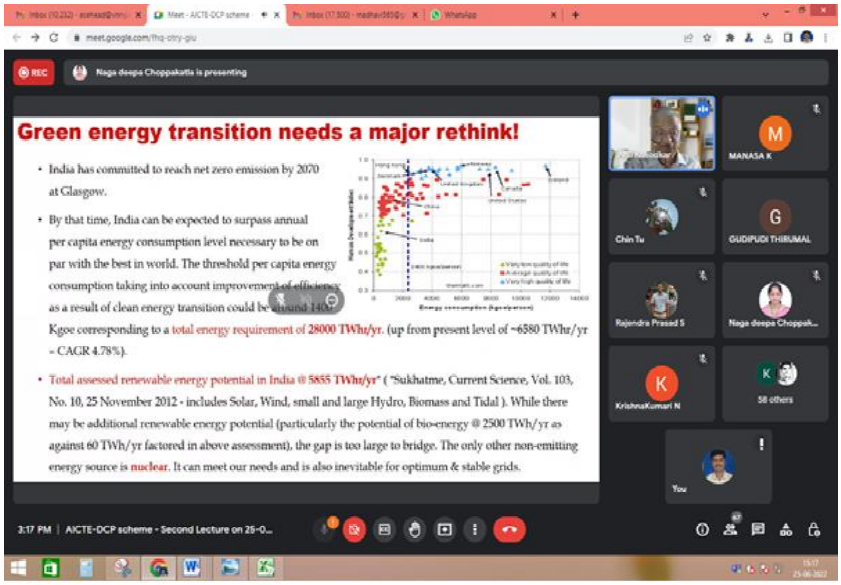
The session is moderated by Dr. Naga Deepa Ch. from department of ECE, introduced the guest to students. A welcome note and vote of thanks is given by Mrs. K. Manasa, faculty of Department ECE. The main aim of this session is to enlighten the students and faculty on the significance and essence of Green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

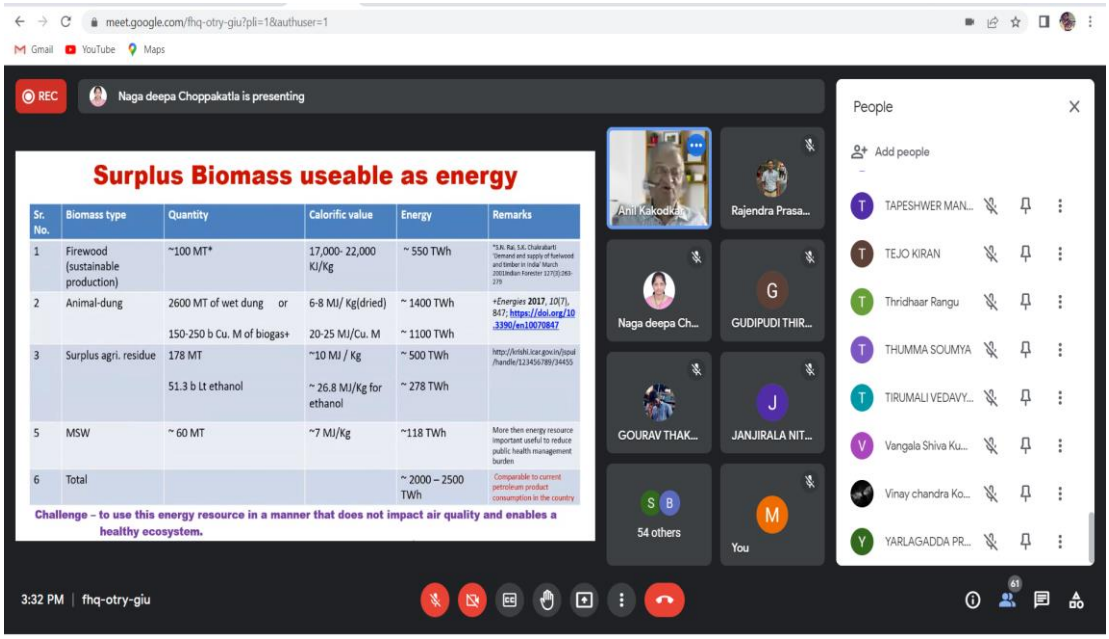
## Conclusions from the Lecture:

- 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

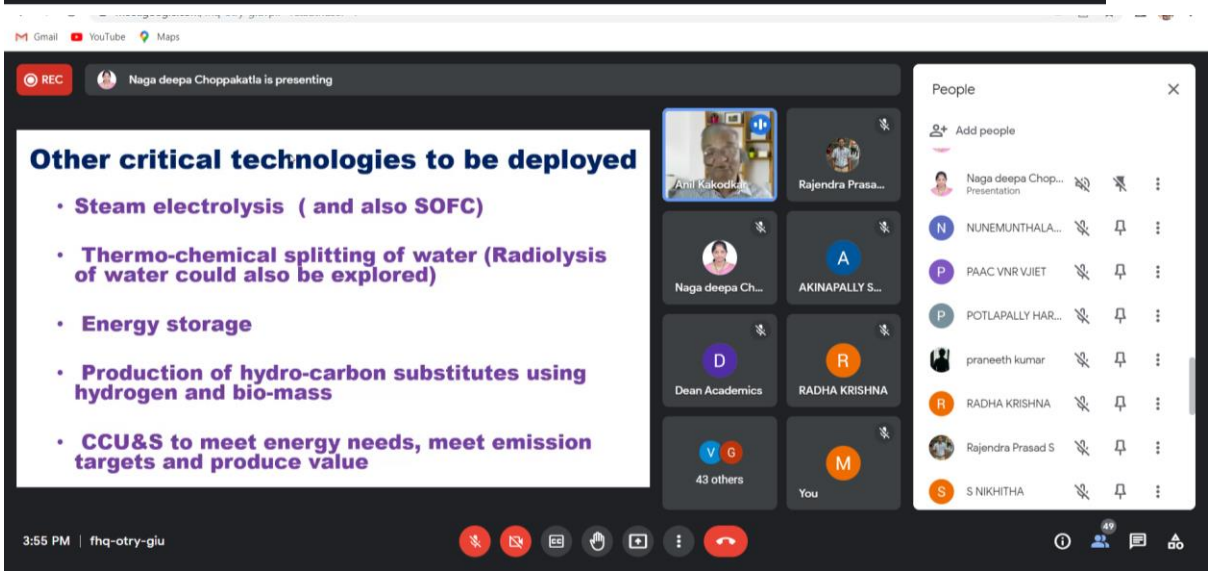
### Gallery






| Sr. No. | Biomass type | Quantity | Calorific value | Energy | Remarks |
|---|---|---|---|---|---|
| 1 | Firewood (sustainable production) | ~100 MT* | 17,000- 22,000 KJ/Kg | ~ 550 TWh | *S.N. Rai, S.K. Chakrabarti 'Demand and supply of fuelwood and timber in India' March 2001Indian Forester 127(3):263-279 |
| 2 | Animal-dung | 2600 MT of wet dung or<br>150-250 b Cu. M of biogas+ | 6-8 MJ/ Kg(dried)<br>20-25 MJ/Cu. M | ~ 1400 TWh<br>~ 1100 TWh | +Energies 2017, 10(7), 847; https://doi.org/10.3390/en10070847 |
| 3 | Surplus agri. residue | 178 MT<br>51.3 b Lt ethanol | ~10 MJ / Kg<br>~ 26.8 MJ/Kg for ethanol | ~ 500 TWh<br>~ 278 TWh | http://krishi.icar.gov.in/jspui/handle/123456789/34455 |
| 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 |



## Report on Guest lecture 3

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

Date: 11.07.2022

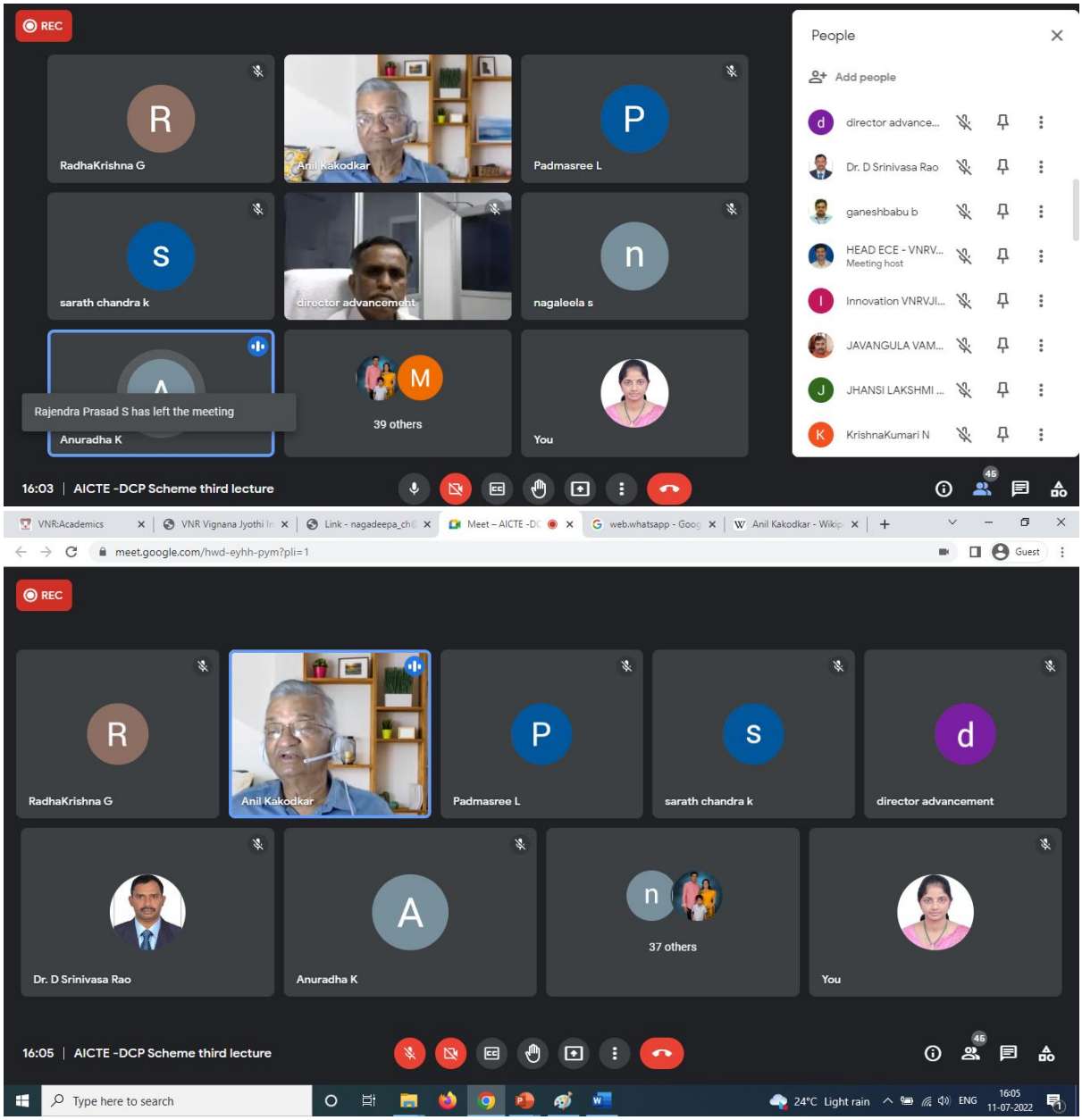
Under the AICTE - Distinguished Chair Professor (DCP) scheme, the Institution has organized the third lecture of **Padma Vibhushan Sri Anil Kakodkar**, titled "**Cillage: A Knowledge Inspired Ecosystem for Transforming Rural India**" at 3.00 PM on 11.07.2022 (Monday) for all faculty at the college. The 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


REC
RadhaKrishna G
Anil Kakodkar
Padmasree L
sarath chandra k
director advancement
nagaleela s
Rajendra Prasad S has left the meeting
Anuradha K
39 others
You
16:03 | AICTE -DCP Scheme third lecture
People
Add people
director advance...
Dr. D Srinivasa Rao
ganeshbabu b
HEAD ECE - VNRV...
Meeting host
Innovation VNRVJI...
JAVANGULA VAM...
JHANSI LAKSHMI ...
KrishnaKumari N
meet.google.com/hwd-eyhh-pym?pli=1
REC
RadhaKrishna G
Anil Kakodkar
Padmasree L
sarath chandra k
director advancement
Dr. D Srinivasa Rao
Anuradha K
37 others
You
16:05 | AICTE -DCP Scheme third lecture
Type here to search
24°C Light rain
ENG
16:05
11-07-2022