



**KPR** Institute of Engineering  
and Technology  
(Autonomous)  
Avinashi Road, Arasur, Coimbatore - 641 407



## CONTINUING EDUCATION PROGRAMME



## ANNUAL REPORT ACADEMIC YEAR 2022-2023



## CONTINUING EDUCATION PROGRAMME

2022 - 2023

### Vision

- To enhance the Knowledge, Skill and Competencies of the Staff, Students and Industry personnel towards technological advancements and managerial techniques by providing continuous education.

### Mission

- Technological training on best practices through continuous education.
- Improve the Quality of Education and Work life through customized training programmes which meet the challenges of the changing technological and managerial environment.



# ACTIVITIES OF CEP





# MEMBERS

CONTINUING EDUCATION PROGRAMME (CEP)		
Sl. No.	Name of the Member	Designation
1.	Dr. M. Akila	Principal (Chairman)
2.	Mr.B.Prasath	Assistant Professor (Sr.G/AD)
3.	Mr.R.Krishna Kumar	Assistant Professor/BM
4.	Dr. S. Karunakaran	Associate Professor / Chemical
5.	Dr. K. S. Elango	Associate Professor / CE
6.	Ms.S.P.Kavya	Assistant Professor/CS
7.	Mr. P. Arunkumar	Assistant Professor / ME
8.	Dr. S. Ravindran	Assistant Professor (Sr. G) / EE
9.	Dr.M.Vasim babu	Professor/ECE(Head)
10.	Dr.B.Nagarajan	Associate Professor/CS (Mentor)

**ACY – 2022-23** CONTINUING EDUCATION PROGRAMME (CEP)

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Event No. : 1

Date : 19-07-2022

Venue : Online Mode

Level of the Event: State level

Type of Event : Webinar (Online)

Title of the Event: Life time Extension of Wireless Sensor Network

In Association with: -

Resource Person 1: Dr.C.Satyanarayana, Deputy Director, CEC, AP

Convener: Dr.M.Vasim babu

Co-conveners :

No. of Internal Participant (Count): Faculty: 14  
Research Scholars:Nil  
Students: Nil  
Others: Nil

No. of External Participants (Count) Faculty: 104  
Research Scholars: 21  
Students: Nil

Outcome:

All the participants have got an idea about various battery models of Wireless sensor nodes. Particularly they understood about how to improve the life time of the sensor nodes with real time experimental model.

Report (in words):

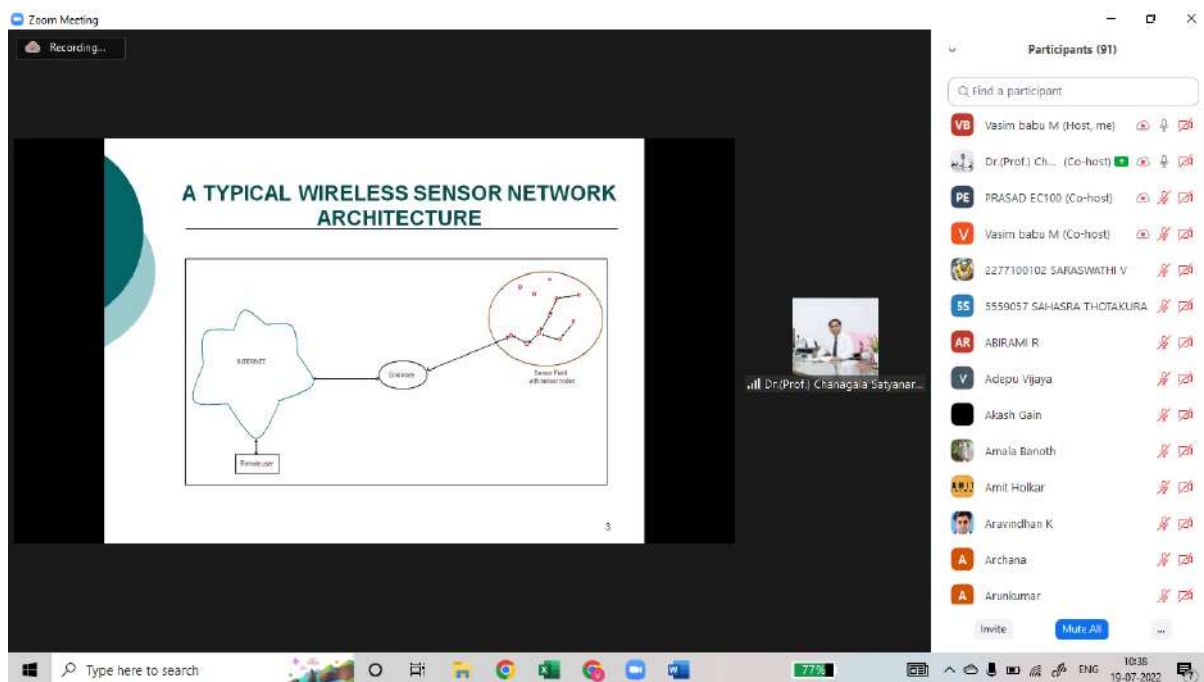
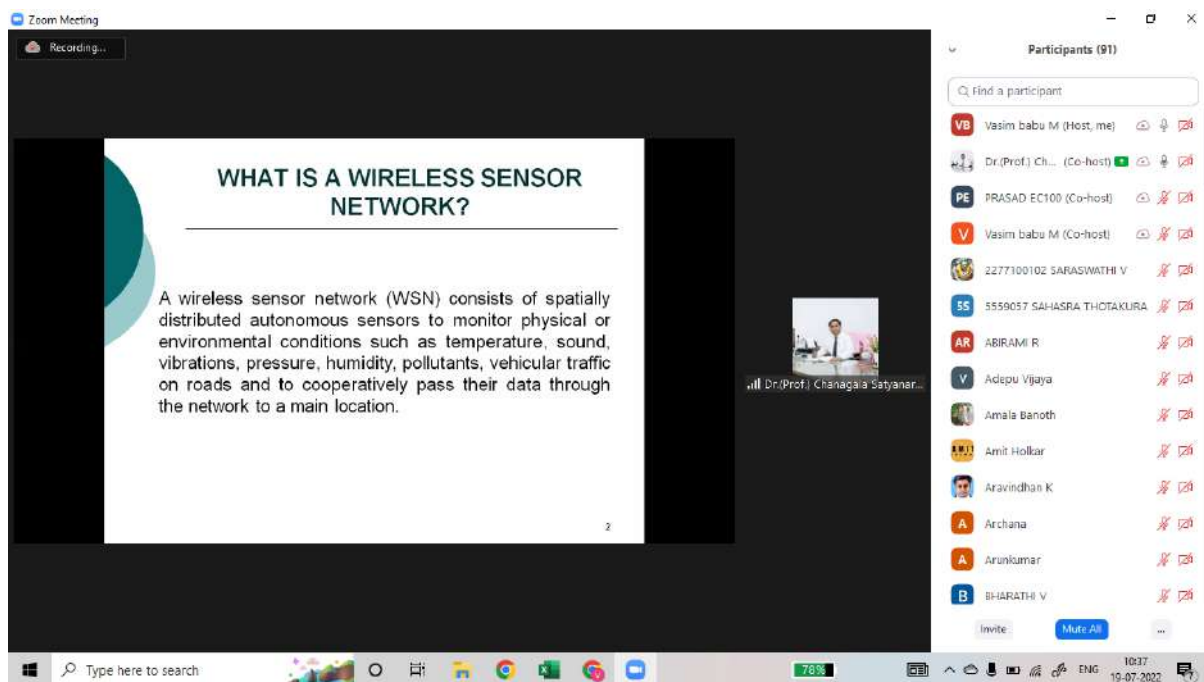
Totally 139 participants have attended the webinar. The keynote speaker has been focussed on various battery consumption model of wireless sensor networks. Participants have learned the latest algorithms towards life time improvements in wireless sensor node. Keynote speaker has taken a real time experiment and showed optimum sampling time for suggested algorithms. Most of the participants have interacted with the resource person and clarified their doubts for their research work. Participants has taken a thorough investigation on the impact of sensor field temperature on sensor node lifetime. Finally, the keynote speaker has concluded with various future research scope of multiple battery sets in sensor networks.

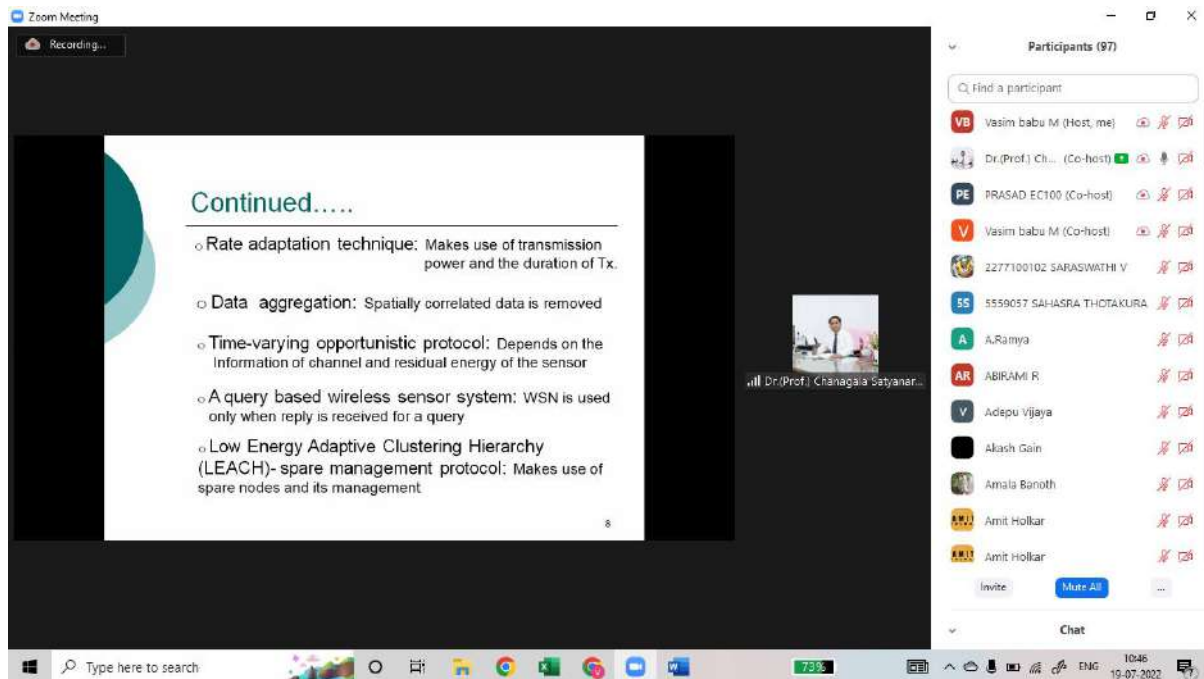
Poster:



The poster is for a webinar titled "Life time Extension of Wireless Sensor Networks". It features the KPR Institute of Engineering and Technology logo and name at the top left, along with the text "Continuing Education Programme". The main title is "Webinar on Life time Extension of Wireless Sensor Networks". Below the title, it identifies the Resource Person as "Dr. Satyanarayana Chanagala", Deputy Director of Chirala Engineering College, Chirala, Andhra Pradesh 523157, India. The date and time are listed as "19<sup>th</sup> July 2022" and "10.30 am". At the bottom, there is a registration link: "https://tinyurl.com/KPRIETCEP" and social media icons for Facebook, Instagram, YouTube, and LinkedIn, along with the text "kpriet.ac.in" and "/KPRIETonline".

Photos / Screenshot:





Zoom Meeting Recording...

### Continued.....

- Rate adaptation technique: Makes use of transmission power and the duration of Tx.
- Data aggregation: Spatially correlated data is removed
- Time-varying opportunistic protocol: Depends on the information of channel and residual energy of the sensor
- A query based wireless sensor system: WSN is used only when reply is received for a query
- Low Energy Adaptive Clustering Hierarchy (LEACH)- spare management protocol: Makes use of spare nodes and its management

Participants (97)

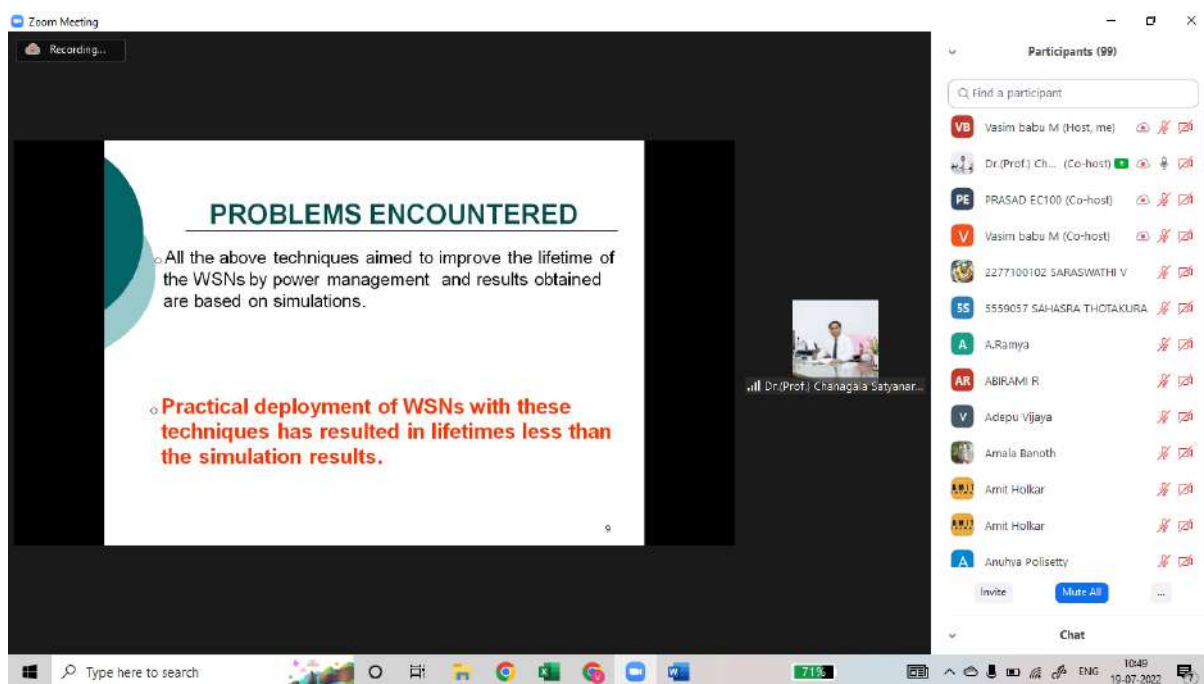
Find a participant

- VB Vasim babu M (Host, me)
- Dr.(Prof.) Ch...
- PE PRASAD EC100 (Co-host)
- V Vasim babu M (Co-host)
- 2277100102 SARASWATHI V
- SS 5559057 SAHASRA THOTAKURA
- A A.Ramya
- AR ABIRAMI R
- V Adepu Vijaya
- Alakash Gain
- Amala Banoth
- Amit Holkar
- Amit Holkar

Chat

73%

10:46 19-07-2022



Zoom Meeting Recording...

### PROBLEMS ENCOUNTERED

- All the above techniques aimed to improve the lifetime of the WSNs by power management and results obtained are based on simulations.
- **Practical deployment of WSNs with these techniques has resulted in lifetimes less than the simulation results.**

Participants (99)

Find a participant

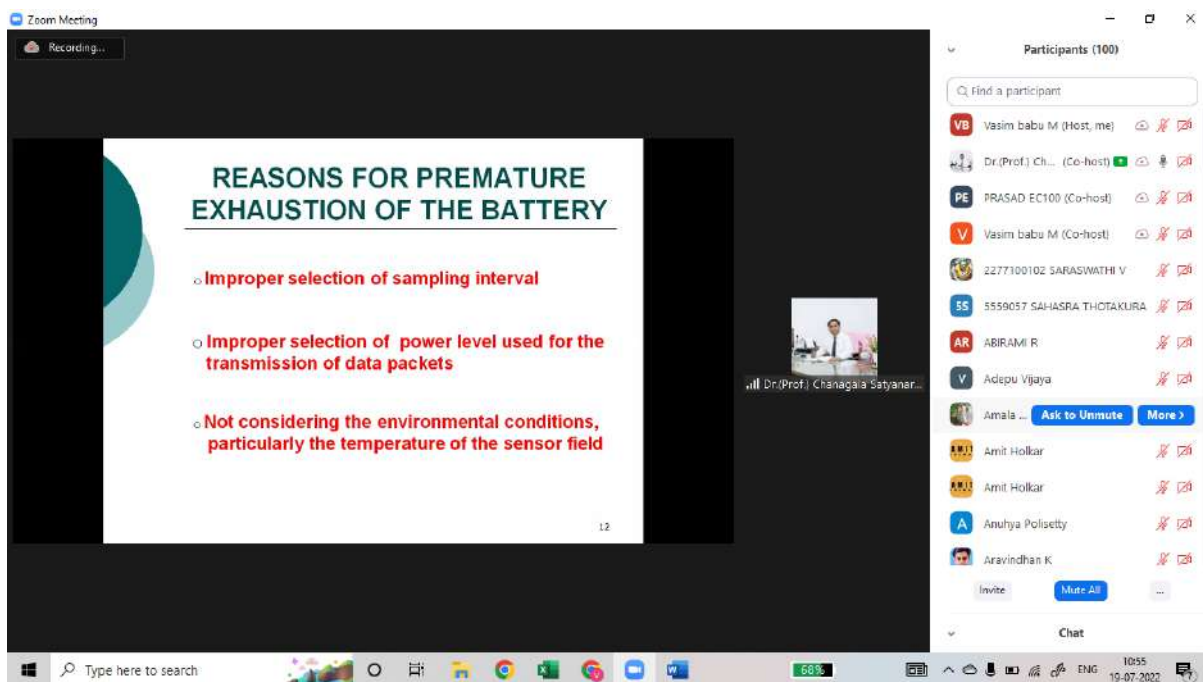
- VB Vasim babu M (Host, me)
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- V Adepu Vijaya
- Amala Banoth
- Amit Holkar
- Amit Holkar
- A Anuhya Polisetty

Chat

71%

10:48 19-07-2022





Zoom Meeting Recording...

### REASONS FOR PREMATURE EXHAUSTION OF THE BATTERY

- o Improper selection of sampling interval
- o Improper selection of power level used for the transmission of data packets
- o Not considering the environmental conditions, particularly the temperature of the sensor field

12

Participants (100)

Find a participant

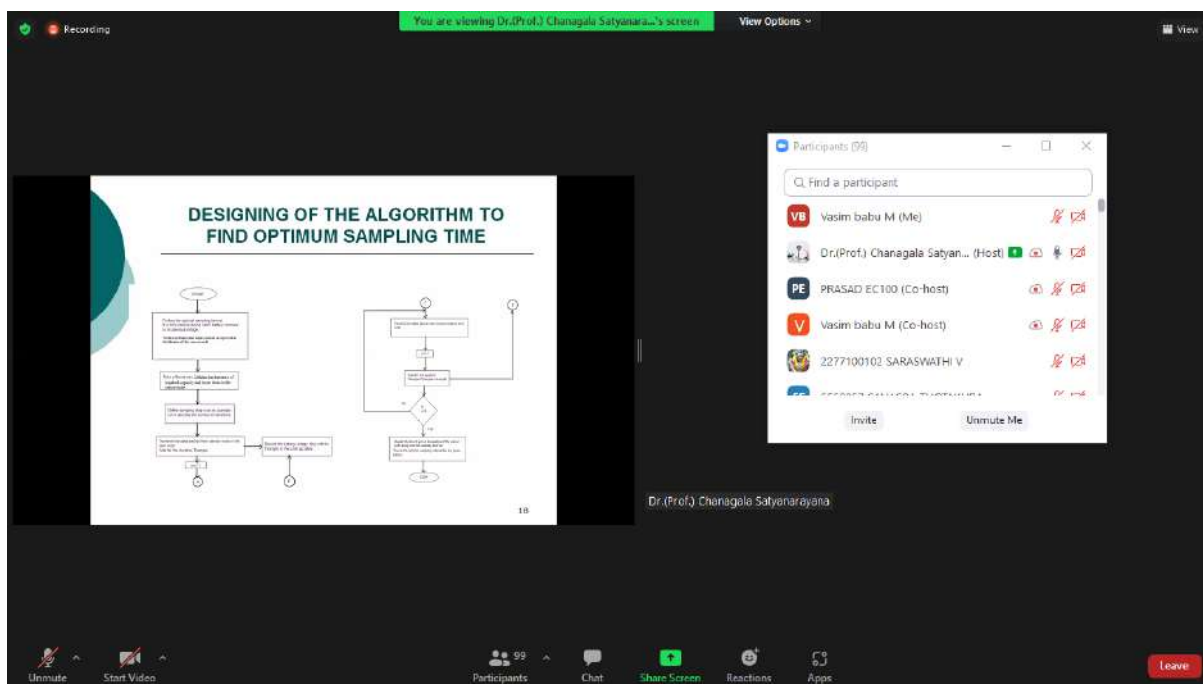
- VB Vasim babu M (Host, me)
- Dr.(Prof.) Chanagala Satyanar...
- PE PRASAD EC100 (Co-host)
- V Vasim babu M (Co-host)
- 2277100102 SARASWATHI V
- SS 5559057 SAHASRA THOTAKURA
- AR ABIRAMI R
- V Adepu Vijaya
- Amala ... Ask to Unmute More >
- Amit Holkar
- Amit Holkar
- Anuhya Polisetty
- Aravindhian K

Chat

Type here to search

68%

1055 19-07-2022



Recording You are viewing Dr.(Prof.) Chanagala Satyanaraya's screen View Options

### DESIGNING OF THE ALGORITHM TO FIND OPTIMUM SAMPLING TIME

18

Dr.(Prof.) Chanagala Satyanarayana

Participants (99)

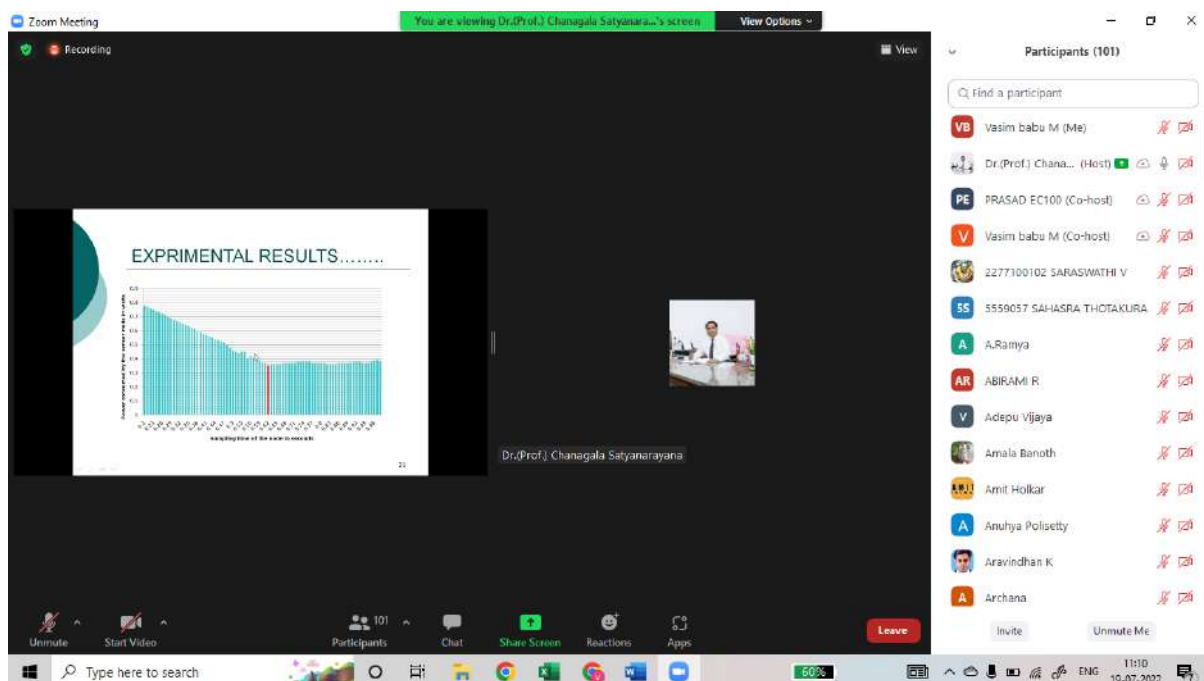
Find a participant

- VB Vasim babu M (Me)
- Dr.(Prof.) Chanagala Satyan... (Host)
- PE PRASAD EC100 (Co-host)
- V Vasim babu M (Co-host)
- 2277100102 SARASWATHI V
- 5559057 SAHASRA THOTAKURA

Unmute Me

Unmute Start Video

Participants 99 Chat Share Screen Reactions Apps Leave



Newspaper Report: ----

Budget approval letter  
& Account settlement  
Details:

No budget was requested

(Dr.M.Vasim babu, Head-CEP)

**ACY – 2022-23 CONTINUING EDUCATION PROGRAMME (CEP)**

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Event No. : 2

Date : 06-08-2022

Venue : Online Mode

Level of the Event: State level

Type of Event : Webinar (Online)

Title of the Event: Employment Opportunities for Fresher's in IT Industries

In Association with: -

Resource Person : Er. E. Selvaiyamperumal, Senior Associate,  
Cognizant Technology Solutions, Singapore

Convener: Dr.S.Sankar Ganesh

Co-conveners : -

No. of Internal  
Participant (Count): Faculty: NA  
Research Scholars: NA  
Students: NA

No. of External  
Participants (Count): Faculty: NA  
Research Scholars: NA  
Students: 140

Outcome:

Participants acquired the knowledge of the growing and decreasing job demands in IT industries for the next five years. Also they got an idea about how to develop their skills in current trends such as Artificial Intelligence, Robotics, Big Data and Cloud.

Report (in words):

Totally 145 participants have attended the webinar. The resource person elaborated the followings:

- Indian IT Sectors – Focus on Growing Demand, Global Foot Print and Competitive advantages
- Growing and Decreasing Job demands in IT industries for the next five years
- Role of Artificial Intelligence, Robotics, Big Data and Cloud in IT industries
- To do task for upskilling –
  - Set your Mind to “Continuous Learning Process”
  - Constant effort to learn basics / advanced of New Technologies
  - Get yourself strong in Core languages like JAVA, PYTHON
  - Compare your contents in books with SYSTEM for broader view
  - Breakthrough the SYSTEM to get the practical view Ex: Installing free VM ware and creating virtual machines
  - Professional Ethics – MUST

Poster:



The poster is a blue rectangular graphic with white and yellow text. At the top left is the KPR Institute of Engineering and Technology logo and name, including the tagline 'Learn Beyond' and accreditation '(Autonomous, NAAC "A")'. To the right, it says 'Continuing Education Programme'. The main title is 'Webinar on Employment Opportunities for Fresher's in IT Industries'. Below this is the name of the resource person, 'Er. E. Selvaiyyamperumal', with his title 'Senior Associate' and company 'Cognizant Technology Solutions Singapore'. The date and time are listed as 'Date: 06.08.2022' and 'Time: 10 AM'. A registration link is provided: 'https://tinyurl.com/KPRIETCEP2'. At the bottom, there is the website 'kpriet.ac.in' and social media icons for Facebook, Instagram, Twitter, YouTube, and LinkedIn, followed by the handle '/KPRIETonline'.

KPR Institute of Engineering and Technology  
Learn Beyond  
(Autonomous, NAAC "A")

Continuing Education Programme

Webinar on  
**Employment Opportunities for Fresher's in IT Industries**

Resource Person



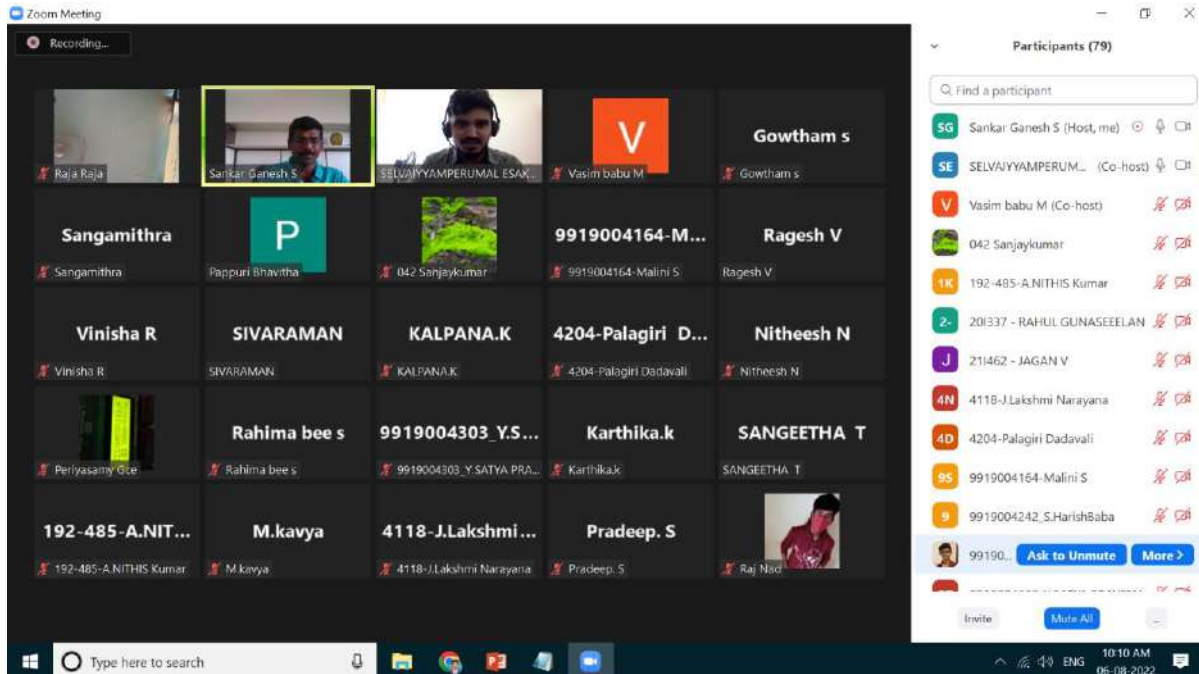
**Er. E. Selvaiyyamperumal**  
Senior Associate  
Cognizant Technology Solutions  
Singapore

**Date: 06.08.2022**      **Time: 10 AM**

Registration Link  
<https://tinyurl.com/KPRIETCEP2>

kpriet.ac.in    f    @    t    v    G /KPRIETonline

Photos / Screenshot:





### Job landscape

By 2025, new jobs will emerge and others will be displaced by a shift in the division of labour between humans and machines, affecting:

**97 million**



**Growing job demand:**

1. Data Analysts and Scientists
2. AI and Machine Learning Specialists
3. Big Data Specialists
4. Digital Marketing and Strategy Specialists
5. Process Automation Specialists
6. Business Development Professionals
7. Digital Transformation Specialists
8. Information Security Analysts
9. Software and Applications Developers
10. Internet of Things Specialists

**Decreasing job demand:**

1. Data Entry Clerks
2. Administrative and Executive Secretaries
3. Accounting, Bookkeeping and Payroll Clerks
4. Accountants and Auditors
5. Assembly and Factory Workers
6. Business Services and Administration Managers
7. Client Information and Customer Service Workers
8. General and Operations Managers
9. Mechanics and Machinery Repairers
10. Material-Recording and Stock-Keeping Clerks

Source: Future of Jobs Report 2020, World Economic Forum

ARTIFICIAL INTELLIGENCE [AI]
VIRTUAL REALITY [VR]

# THE FUTURE

SMART HOME



CONNECTED CAR



DRONES



PRIN






## INFORMATION TECHNOLOGY TRENDS

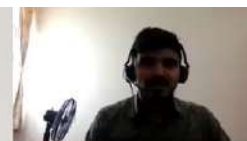
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- Artificial Intelligence (AI) and Machine Learning
- Robotics
- Big Data
- Cloud

“ The measure of Intelligence is the ability to change” – Albert Einstein



## WHAT TO DO FOR UPSKILLING



- Set your Mind to “ Continuous Learning Process ”
- Constant effort to learn basics / advanced of New Technologies
- Get yourself strong in Core languages like JAVA , PYTHON
- Compare your contents in books with SYSTEM for broader view
- Breakthrough the SYSTEM to get the practical view Ex : Installing free VM ware and creating virtual machines
- Professional Ethics – MUST

Newspaper Report: ----

Budget approval letter  
& Account settlement  
Details:

No budget was requested

Dr.M.Vasim babu

Head/CEP

(Dr.S.Sankar Ganesh, ASP - AD)

Co-Ordinator

**ACY – 2022-23** CONTINUING EDUCATION PROGRAMME (CEP)

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Event No. : 3

Date : 26-08-2022

Venue : Online Mode

Level of the Event: National level

Type of Event : Webinar (Online)

Title of the Event: flexible and wearable sensors for biomedical applications

In Association with: Department of ECE

Resource Person : Dr. Shanmuga Sundar Dhanabalan  
Researcher  
Functional Materials and Microsystems Research Group  
School of Engineering, RMIT University  
Melbourne, Victoria 3001  
Australia.

Convener: Dr. Kathirvelu & Dr. M. Vasim babu

Co-conveners : Dr. Gurumoorthy

No. of Internal  
Participant (Count): Faculty: NA  
Research Scholars: NA  
Students: NA

No. of External  
Participants (Count): Faculty: 162  
Research Scholars: NA  
Students: NA



Outcome:

Participants acquired the knowledge of Various wearable sensors used for bio medical applications.

Report (in words):

Totally 162 participants have attended the webinar. The resource person elaborated the followings:

- Type of Wearable sensors for Bio medical applications
- Latest trends in Bio medical engineering
- Future research directions in bio medical engineering
- Real time example for wearable sensors
- Future research scopes in wearable sensors for bio medical application.

Poster:



The poster is for a National Webinar titled "Flexible and Wearable Sensors for Bio Medical Applications". It is organized by KPR Institute of Engineering and Technology (Autonomous, NAAC "A") in association with the Department of Electronics and Communication Engineering. The resource person is Dr. Shanmuga Sundar Dhanabalan, a researcher at RMIT University. The webinar is scheduled for 26 August 2022, from 2.00 p.m. to 3.00 p.m. The convener is Dr. M. Kathirvelu, and the coordinators are Dr. M. Vasim Babu and Dr. K. B. Gurumoorthy. The poster also features a "Great Place To Work Certified" badge and social media links for KPRIET.

**KPR Institute of Engineering and Technology**  
Learn Beyond (Autonomous, NAAC "A")

Continuing Education Programme in Association with  
**Department of Electronics and Communication Engineering**

National Webinar on  
**Flexible and Wearable Sensors for Bio Medical Applications**

Resource Person  
**Dr Shanmuga Sundar Dhanabalan**  
Researcher  
Functional Materials and Microsystems Research Group  
School of Engineering, RMIT University  
Melbourne, Victoria 3001, Australia

26 August 2022  
2.00 p.m. to 3.00 p.m.

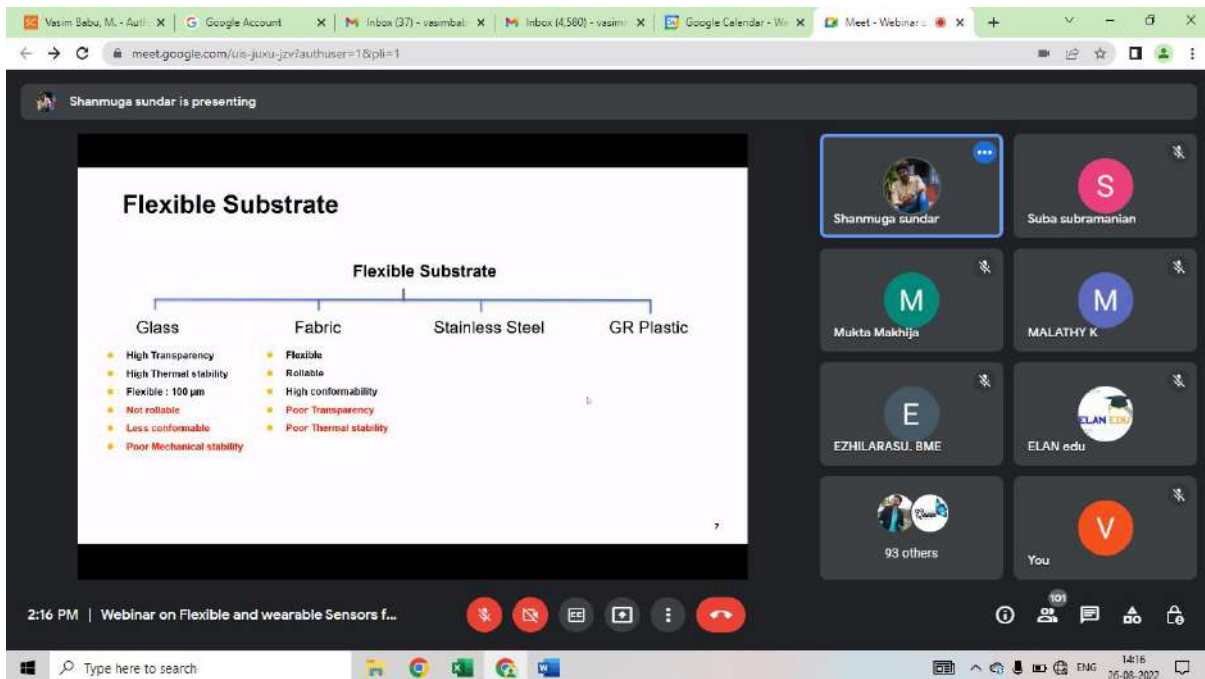
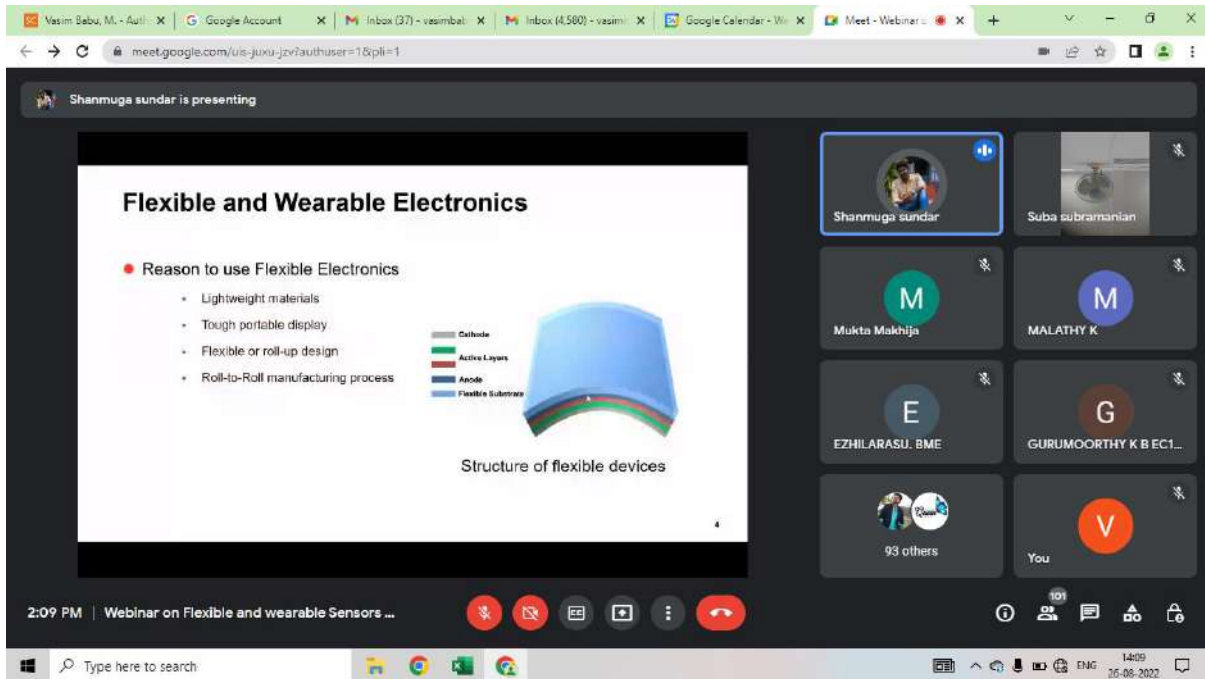
Convener  
**Dr.M.Kathirvelu**  
Prof & Head / ECE

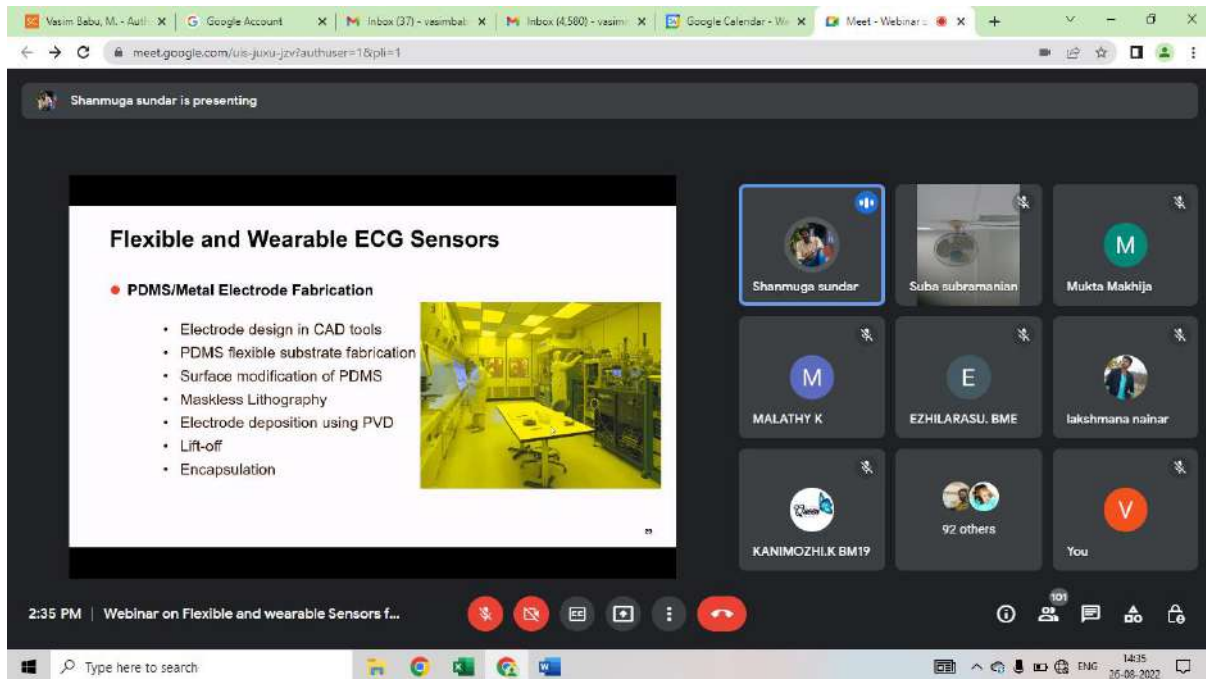
Coordinators  
**Dr.M.Vasim babu**  
Head/CEP  
**Dr.K.B.Gurumoorthy**  
AsP/ECE

kpriet.ac.in /KPRIETonline

Great Place To Work Certified  
MAR 2022 - MAR 2023  
INDIA

Photos / Screenshot:





Newspaper Report: ----

Budget approval letter  
& Account settlement

Details:

No budget was requested

Dr.M.Vasim babu

Head/CEP

(Dr.Gurumoorthy AsP/ECE)

Co-Ordinator/ECE

**ACY – 2022-23** CONTINUING EDUCATION PROGRAMME (CEP)

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Event No. : 4

Date : 14-09-2022

Venue : Online Mode

Level of the Event: National level

Type of Event : Webinar (Online)

Title of the Event: Opportunities of Higher Education in Developed countries for Indian Students

In Association with: Department of BME

Resource Person: Mr. Janarthan Panchakumar,  
International Service Specialist for Autoimmunity  
Werfen, Italy.

Conveners: Dr. D. Ganesh kumar

Co-convener: Mr. R. Krishna kumar

Student Coordinators: 1. Mr. G. Thirumalaivasan, II BME  
2. Ms. S. Sabitha, II BME

No. of Internal  
Participant (Count): Faculty: NA  
Research Scholars: NA  
Students: NA

No. of External  
Participants (Count): Faculty: NA  
Research Scholars: NA  
Students: 122

## ACY – 2022-23 CONTINUING EDUCATION PROGRAMME (CEP)

### Outcome:

Participants acquired the knowledge of Higher education opportunities in Universities in Developed countries

### Report (in words):

Totally 122 participants have attended the webinar. The resource person elaborated the followings:

- How to search for Higher education program
- How to choose Universities and country
- List of Scholarships available to undergo Education.
- List of Career Opportunities after Graduation in Foreign country.
- Pros and Cons of Higher education in foreign country.

### Poster:



The poster features the KPR Institute of Engineering and Technology logo (Learn Beyond, Autonomous, NAAC "A") and the Department of Biomedical Engineering logo. It includes a 'Great Place To Work. Certified' badge for the period of March 2022 to March 2023. The main text reads: 'Continuing Education Program in Association with Department of Biomedical Engineering National Webinar on Opportunities of Higher Education in Developed countries for Indian students'. The resource person is Mr. Janarthan Panchakumar, M.S., an international service specialist for Autoimmunity in Werfen, Italy. The event is scheduled for 14 SEPT'22 from 07.00 PM to 08.00 PM (IST). The poster also lists the Convener (Dr. D. Ganeshkumar, HoD / BME), Faculty Coordinator (Prof. R. Krishna Kumar AP/BME), and Student Coordinator (G. Thirumalaivasan - II BME and S. Sabitha - II BME). The background shows a group of smiling students and a circular portrait of the resource person.



Photos / Screenshots:





Newspaper Report: ----

Budget approval letter  
& Account settlement

Details: No budget was requested

Mr. R. Krishna kumar  
Co-ordinator/BME

Dr. Vasim babu,  
Head/CEP