



RAJARAJESWARI COLLEGE OF ENGINEERING

Affiliated to VTU | Approved by AICTE, New Delhi | Accredited by HLACTION, Texas, USA (Internationally) and by NBA

National Level Entrepreneurial Leadership Webinar on "Recent Innovations in Electronics"

Jointly organized by

Department of Electronics and Communication Engineering

&

RajaRajeswari Institution Innovation Council (RRIIC)

(MoE IIC Approval No: IC201912297)

Date: 24th July 2021 Saturday at 11.30 A.M. IST

Resource Person:

Mr. A T Kishore,
Chief Executive Officer,
Vidhya Sangha Technologies Pvt. Ltd,
Bangalore.

Virtual Meeting Link:

<https://us02web.zoom.us/j/8634386115?pwd=OFJQdnZaNVhzc09GRVRRrL3FqWnF5dz09>

Meeting ID: 863 438 6115

Passcode: rrb

Objective of the Session: To provide an awareness session on Recent Innovations in Electronics and create an interest and motivation to the students and faculty members on how to contribute to the society using latest technological developments in Electronics.

Target audience:

- ❖ The Webinar is open for UG & PG Students, Faculty members, Industry Personnel, Start up Founders, Aspiring Research Scholars

Number of Participants : 137 Participants.

Outcome of the Program:

- Faculty members, Research Scholars, UG and PG Students are sensitized on recent technological innovations in Electronics
- Create awareness on support extended by innovation and ideation by Government organizations to the students
- Sensitize the Participants on how the students, faculty members and aspiring innovators can innovate new innovative applications, innovative devices and services for the betterment of the society
- Gathered knowledge on Thrust areas in which aspiring innovators must focus such as Rural Agriculture, Rural Healthcare, Rural Education, Traffic monitoring and guiding solutions to the Metro cities and Waste Management solutions.

Organizing Committee :

Dr.T.Chandrashekar, M.Tech., Ph.D, Principal

Dr.R.Balakrishna, M.Tech., Ph.D

Dean – RRCE & IPR Cell Co-ordinator

Dr. L. Rangaiah, Professor and Head, ECE,

Dr.A. Muruganandham,

Professor-ECE & Co-ordinator - ED Cell, RRIIC

Dr.S.Usha, M.E., Ph.D,

HoD – CSE & Dean – Research & Innovation

Dr. Amutharaj Joyson, M.E., Ph.D, FIE,

Professor & HoD - ISE & President – RRIIC

Dr.C.Ramesh, M.E., Ph.D,

Professor and Head, Mech. Engg., Convener – RRIIC

Dr.D.Sobya, ASP - ECE & Start up Co-ordinator - RRIIC

Event Photos - Leadership Webinar on "Recent Innovations in Electronics" 24th July 2021

Zoom Meeting

Recording

Participants (34)

Find a participant

Dr. J. Amutharaj HoD... (Co-host, me)

Vinoth Pongu (Host)

Dr. D. SOBYA (Co-host)

Kishore Annam

Shreya Shanbhag

Sneha G

Naveen Naveen

Trikaleshwar

Dr. Subburaj T

HR Sowndarya

Shrusti Navalagi...

Vinay Kumar

Rahul Suthar

Ask to Unmute

Unmute Start Video Security Participants Chat Share Screen Record Reactions Leave

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Zoom Meeting

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View Options

Recording

Vinoth Pongu

Dr. D. SOBYA

Varna(1RR18EC...

Vinay Kumar

Shreya Shan...

Rahul Suthar

IESA, INUP, CeNCNT

- SCC CHANDIGARH
- ESDM
- ESSCI NDSC PMKVY SKILL INDIA
- MII
- AATHMANIRBHAR BHARAT
- START UP INDIA
- <http://www.inup.iitb.ac.in/inup/index.php>
- <https://iesaonline.org/>
- Centre for Nano Science and Engineering
- <http://www.cense.iisc.ac.in/>

CENTRE FOR NANO SCIENCE AND ENGINEERING (CeNSE)

Participants (85)

Find a participant

MP Monica Pattaswamy

N NIKHIL GOWDA P

NK Nithish Kumar S

N Niveditha V (1RR19IS0251C)

Padmavathy Velayuham

P1 Padmitha 1RR19EC040 S

PP Pavithra P

PR POORNIMA RAVICHANDRARAO

prashanthini m

M Prathyusha H Kumar 1RR19EC058

P Preetham 1r18ec073

PR Priyanka R

R Raghottam.P.M

Rahul Suthar

Rajesh Khanna

RS Rajeshwari S(1RR18EC078)

RM Rakshitha M(1RR18EC079)

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Zoom Meeting | You are viewing Dr. D. SOBYA's screen | View Options

Vinoth Pongu | Varna(1RR18EC... | Vinay Kumar | Shreya Shan... | Rahul Kumar | rashmi

PHOTONICS

- **Optics, Nanostructures and Quantum Fluids**
- Study of optical and hydrodynamic properties of nanostructured particles and films, with emphasis on developing nanoscale drug delivery vehicles and nanoplasmonic sensors for biological applications. Facilities include nanostructured thin film fabrication system, optical microscope, and various optical characterization tools.
- **Gas Sensors Lab**
- The Lab has facilities to characterize sensors employing different concentrations of gases – both inorganic and volatile organics – from ppb (~1) to ppm (>10,000); an IR camera to study the thermal morphology of microheaters; a microdispenser to dispense a desired amount of an analyte (solution) with a 20 μm spatial resolution. The lab also has the facility to fabricate sputtering targets of sensor materials.

IEEE

Participants (90)

Q Find a participant

- Dr. J Amutharaj HoD ... (Co-host, me)
- Vinoth Pongu (Host)
- Dr. D. SOBYA (Co-host)
- Kishore Annam
- 1RR18EC093 SANJAY
- 1rr18is050
- 881d0810
- Altamash BM
- ASHWINI M.C.
- Bhuvaneshwari R
- Bindushree K
- Deekshtha.h.p
- Divya
- Dr. Rangalah L
- Dr. VIJA... Ask to Unmute More >
- Dr. Jyothi A P
- Gagana M

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Raghattam.P.M | V | Dr. D. SOBYA | Varna(1RR18EC... | Vinay Kumar | Shreya Shan...

LASER

- **Non-linear Photonics and High Power Lasers Lab**
- This laboratory focuses on development of novel optical sources and processing technologies for varied applications from optical communications, sensing and biomedical imaging to high power industrial and defense lasers. Fundamental research on non-linear optics in guided-wave devices, an enabler for many of the novel laser technologies, is also undertaken.
- **Neuro-Electronics Lab**
- The research emphasis is on interfacing neurons of the brain with electronic devices. The broad aim is to understand how learning takes place in biological neuronal networks using electrical and optical recording and stimulation, and to utilize it for robotic control. Facilities available are: nanofabrication of multi-electrode arrays, tissue culture laboratory for neuronal culture, electrophysiology rigs for multi-electrode array recording with feedback control, an electronics lab bench, high-end microscopes with fast fluorescence imaging and optical stimulation of neurons using a femto-second laser.

IEEE

Participants (98)

Q Find a participant

- Dr. J Amutharaj HoD ... (Co-host, me)
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- Deekshtha.h.p
- Divya
- Dr. Rangalah L
- Dr. VIJAVA S M
- Dr. Jyothi A P

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Participants: Raghottam.P.M, V, Dr. D. SOBYA, Varna(1RR18EC..., Vinay Kumar, Shreya Shan...

FUTURE

THE FUTURE OF E-WASTE

Year	Volume / Description
2018	28 million tonnes
2020	25.85 billion connected devices
2021	40 billion tonnes
2040	70% PCs, laptops, monitors, smartphones and tablets will reach 1/3rd of their average life
2050	100 billion tonnes
2060	Overall consumption of materials across all sectors will be double

IEEE

Unmute | Start Video | Security | Participants (98) | Chat | Share Screen | Record | Reactions | Leave

Participants (98): Dr. J Amutharaj HoD..., Vinoth Pongu (Host), Dr. D. SOBYA (Co-host), Kishore Annam, Chandan d (1RR19IS004), 1RR18EC093 SANJAY, 1rr18i6050, B81d0810, Altamash BM, ASHWINI M.C., Bhuvaneshwari R, Bindushree K, CHAYA S DAS, Deekshitha.h.p, Dhanush D, Divya, Dr. Rangalah L

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Participants: V, Varna(1RR18EC..., Vinay Kumar, Shreya Shan..., Rahul Suthar, rashmi

Technology as an enabler in Government reforms

Department of Electronics & Information Technology
Government of Odisha, Bhubaneswar
www.odisha.gov.in

- ICTs have been an integral part of many public sector reform agendas and have helped governments successfully in:
 - Increasing convenience to the citizens in availing government services
 - Increasing speed and quality of service delivery
 - citizen empowerment through access to information and transparency in service delivery
 - Reduce corruption
 - Cost reduction and revenue growth for government
 - Improve compliance with government regulation

e-Governance uses Technology as a tool for reforming government

Unmute | Start Video | Security | Participants (98) | Chat | Share Screen | Record | Reactions | Leave

Participants (98): 1RR18EC093 SANJAY, 1rr18i6050, B81d0810, Altamash BM, ASHWINI M.C., Bindushree K, Chandan d (1RR19IS004), CHAYA S DAS, Deekshitha.h.p, Divya, Dr. Rangalah L, Dr. Subburaj T, Dr. VIJAYA S M, Dr. Jyothi A P, ece hod, Harsha Patel, Harshith R

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Zoom Meeting

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Government Transformation

Governance G-Governance e-Government e-Governance

Department of Electronics & Information
Citizens | Businesses | Government | Others
Government of Odisha, Bhubaneswar
a.gov.in

Four Pillars

- Process
- People
- Technology
- Resources

4 Key Questions to be Addressed

- WHAT do we want to *Achieve* ?
- HOW do we want to *Implement* ?
- WITH WHAT resources ?
- WHO will be responsible ?

Transparency Accountability Responsiveness Efficiency Participation Connected

Front End – Citizens interact with Government

Back End – Working within Government

21

Participants (97)

Find a participant

- Dr J Amutharaj HoD ... (Co-host, me)
- Vinodh Pongu (Host)
- Dr. D. SOBYA (Co-host)
- Kishore Annam
- 1RR17EC132 SWATHI K
- 1RR18EC093 SANJAY
- 1rr18ec126
- 1rr186050
- 881d0810
- Altamash B M
- ASHWINI M.C.
- Bindu...
- Ask to Unmute More
- Chandan d (1RR19IS004)
- CHAYA S DAS
- Deekshitha.h.p
- Divya
- Dr Rangalah L

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Zoom Meeting

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Electronics

- Indian Electronics System Design and Manufacturing (ESDM) industry is one of the fastest growing sectors in the country.
- Changing global landscapes in electronics design and manufacturing capabilities, and cost structures have turned the attention of global companies towards India.
- State of Play:
 - 65% of the electronics is currently imported;
 - 25-30% of the systems simply assembled;
 - less than 10% of the electronic systems are completely designed and manufactured in India.
 - Almost 100% of semiconductors are imported.
- Domestic production can cater to a demand of only \$100 Bn by 2020... **demand-supply gap of \$300 Bn.**

Top 10 electronic products contributing about 70% by total revenue include:

- Mobile Phones
- Digital Camera
- 4W EMS
- Flat Panel TVs
- Inverters & UPS
- LCD Monitors
- Notebooks
- Memory Cards & USB Drivers
- Servers
- Desktops

Segment: 2020 Mkt. Size

LED	\$35 bn
Telecom Equipment	\$34 bn
Laptops/Portables	\$34 bn
Consumer Electronics	\$29 bn
Medical Electronics	\$12 bn
Set Top Boxes	\$10 bn
Automotive...	\$10 bn

Electronics imports, are currently the 3rd highest, next to crude and gold.

Participants (87)

Find a participant

- Dr J Amutharaj HoD ... (Co-host, me)
- Vinodh Pongu (Host)
- Dr. D. SOBYA (Co-host)
- Kishore Annam
- 19EC059(PUNITH.B)
- 1RR17EC132 SWATHI K
- 1rr18ec126

Chat

From Dr. D. SOBYA to Everyone:
<https://forms.gle/UwSoDraMv1217ar6>
Dear students kindly fill this feedback for to get the e-certificate

From Me to Everyone:
Very informative session

To: Everyone File

Type message here...

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