K S R COLLEGE OF ENGINEERING, TIRUCHENGODE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University

Chennai

ORGANIZED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VIRTUAL FACULTY DEVELOPMENT PROGRAMME

ACADEMIC YEAR: 2021-2022

TITLE

"SENSOR TECHNOLOGY"

on

4.10.2021 to 8.10.2021

Co-ordinators: Dr.P.S.Periasamy,Professor&Head /ECE

Dr.R.Poornima,ASP/ECE

Mr.R.Veeramani,ASP/ECE

Mr.J.Rameshkumar,AP/ECE

K.S.R. COLLEGE OF ENGINEERING TIRUCHENGODE 637 215

PRINCIPAL
K.S.R. COLLEGE OF ENGINEERING
K.S.R. KALVI NAGAR,
TIRUCHENGODE-637 215

Objective

The course content is designed for the faculty, research scholars and PG students to motivate them in learning about various sensors/transducer and its application.

Resource person

Resource persons from IITS/ NITs/ IIITs and other reputed R & D Institutions and Industries.

Eligibility of Participants

Faculty members of the AICTE approved Engineering colleges and Polytechnic colleges, research scholars, PG Scholars, participants from Government, Industry etc and staff of host institutions maximum 200 participants are allowed on first come first serve basis.

How to Apply

For details:

https://atalacademy.aicte-india.org/signup

No Registration fee is applicable for attending FDP. Interested candidates should register before 01-10-2021 (17:00 hrs).

The program would be completely online during 04-08 Oct 2021 on Google Meet platform.

Maximum Participants, 200 Upto 30% participants from the host Institution

The program will cover theoretical, practical and application aspects.

The participants shall take part in a test at the end of the program. Top 5 scorers in the examination will receive a Book each.

Course Completion Certificate would be issued to participants with 80% or more attendance and 60% or more marks in the test.

Chief Patrons

Lion. Dr. K. S. Rangasamy

Founder Chairman

Mr. R. Srinivasan

Vice-Chairman

K.S.R. Educational Institutions

Patron

Dr. P. Senthil Kumar

Principal

K.S.R. College of Engineering

Organizing Committee Members

Dr.R.Poornima, ASP-ECE

Mr.R. Veeramani, ASP-ECE

Mr.J.Rameshkumar, AP-ECE

IMPORTANT DATES

Last date to register in AICTE ATAL portal	: 01-10-2021
Date of selection intimation	: 02-10-2021
Date of Faculty Development Programme	: 04-10-2021 to 08-10-2021

After registration in the https://atala academical-india.org link submit the scanned copy of the registration form to ksrceeceofficial@gmail.com by

FOR ANY DETAILS PLEASE CONTACT

Mr. R. Veeramani

Associate Professor

K.S.R. College of Engineering

Tiruchengode-637 215

Mobile Number : 984021 88655

97912 62595

AICTE Training and Learning (ATAL)

Sponsored

Virtual Faculty Development Program (FDP)

on

Sensors Technology

04-10-2021 to 08-10-2021

Coordinator

Dr.P.S.Periasamy

Prof. & HOD

Department of

Electronics and Communication Engineering

K.S.R. College of Engineering,

Tiruchengode

Organized by Department of Electronics and Communication Engineering (Programme Accredited by NBA)

K.S.R. College of Engineering

(An Autonomous Institution)

Affiliated to Anna University & Approved by AICTE,

Accredited by NAAC with 'A' Grade

K.S.R. Kalvi Nagar, Tiruchengode,

Namakkal District - 637 215, Tamilnadu, India.

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ABOUT THE COLLEGE

K.S.R. College of Engineering is one of the foremost multi professional research lead institutions established in the year 2001 by Aarthi Educational and Charitable Trust. KSRCE is an autonomous institution, affiliated to Anna University, accredited by NAAC with 'A' Grade and approved by AICTE. The college has come up with all essential and advanced modern infrastructure facilities to excel both in academic and research activities. The college offers 9 UG and 7 PG Programmes in Engineering and Technology in addition to MBA, MCA and Ph.D. Programmes. The college is continuously recognized by several organizations, ranking agencies and magazines like NIRF, Anna University, EDU-Rand Rankings, Outlook , Competition Success Review, "The Week" and other reputed journals.

The College frequently bags several University ranks and gold medals from Anna University both in academics and sports including first place for filing maximum number of patents among all the engineering colleges affiliated to Anna University and secured Second Rank in Anna University Examination results. The College was bestowed with 3 patents, 05 patents examined, 35 patents published and 140 patents filed. Several advanced centers are functioning with support from the MHRD. and other agencies. These include: e-Vantra Lab Setup Initiative , CISCO network academy, CAD/CAM Centre, EMC² centre, IoT learning centre, Wipro PAP centre, Virtual Instrumentation Centre, Educational Technology Centre, Centre for Non-Formal and Continuing Education and Industry Institute Partner ship Cell.

ABOUT THE DEPARTMENT

The department of ECE was established in the year 2001 and has soared excellently in academic and research activities. The department is also offering a PG course in Communication Systems since 2010. The department is recognized as research center, permanently affiliated by Anna University and accredited by NBA three times and the same is valid up to June 2022. The department is equipped with the state of art laboratories, Internet facilities and supported by well-qualified experienced faculty members. Most of the students are contributing all around the world and their contribution can be seen at the national level in many public sectors, research organization and defense sectors like DRDO, ISRO etc. & in most of the 500 MNCs. The department has equally supported the students by providing the latest curriculum and syllabi with hands on training in communication engineering, SoC, VLSI & Embedded Systems & etc.. Students are enriched with this technological knowledge and expertise in identified domains. For the last two decades, this department has occupied and contributed remarkably to be a part of nation building and creating ambiance to the new horizon.

About ATAL

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understand that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

Faculty Development Programme

Sensor is a device, module, machine, or subsystem whose purpose is to detect events or changes in its environment and send the information to other electronic devices , frequently a computer processor. Advance sensor technologies have created a paradigm shift in efficient operation of almost all sectors of the societies. Starting from health to domestic to industrial sector the intervention and dependence on smart sensors has increased manifold times. Development of smart sensors and its associated instrumentation has experienced a huge leap in last few years. Sensors not only improved performance of the new technologies but have also helped to assess the efficiency of many existing technologies. Structural health monitoring of any manufacturing process is one such example of it. We are in an era where people are surrounded by sensors. The advancement in sensor technologies has opened an era of interdisciplinary science, where all stream hold equal importance in the development of any sensor technology competencies.

Broadly, the course contents (but not limited to) are as follows:

- ☒ Sensor Fabrication Technologies – An Overview
- ☒ Analog & Digital Sensors
- ☒ Instrumentation in Precision Health care
- ☒ Wearable sensors as a part of IoT
- ☒ Application of MEMS Based Sensors
- ☒ Design, Fabrication & Characterization of RFID
- ☒ Sensors for Surveillance Applications
- ☒ Satellite IoT connectivity for LoRa Technology
- ☒ Advancements in Gas Sensor Technology
- ☒ Biosensors and its Applications
- ☒ Real time ECG signal acquisition and Analysis using LABVIEW
- ☒ Sensors in vehicles

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ATAL FDP REPORT

Virtual Faculty Development Programme

on

"SENSORS TECHNOLOGY"

K.S.R

COLLEGE OF ENGINEERING

DATE: 4th October 2021 to 8th October 2021

Programme Coordinator

Dr.P.S.Periasamy

Prof.-Head,Department of ECE, KSRCE, Tamilnadu

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AICTE TEACHING LEARNING PROCESS (ATAL)
SPONSORED FACULTY DEVELOPMENT
PROGRAMME ON VIRTUAL FACULTY DEVELOPMENT PROGRAMME
ON
"SENSORS TECHNOLOGY"

AICTE Teaching Learning Process (ATAL) Sponsored Faculty Development Programme on Sensors Technology was conducted from 4th to 8th October 2021 in which 106 participants from different parts of the country were participated. The Detailed schedule has given below.

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K.S.R. Kalvi Nagar, Tiruchengode, Namakkal District - 637 215, Tamilnadu, India.

AICTE Training and Learning (ATAL) Sponsored Virtual Faculty Development Program (FDP)
on

SENSORS TECHNOLOGY

Organized by

Department of Electronics and Communication Engineering

(Programme Accredited by NBA)

Session wise time schedule

Date	Session Timing		
	(9.30 am - 11.30 am)	(11.45 am -1.45 pm)	(2.30 pm- 4.30 pm)
04-10-2021	*Session 1* **Introduction to Sensor and Transducer Technology** Dr.P.S.Periasamy *Department of ECE, KSRCE, Tamilnadu*	*Session 2* **Design, Fabrication & Characterization of RFID Sensors for Surveillance Applications** Dr.Deepak Sood *Department of ECE (UIET) Kurukshetra University, Kurukshetra*	*Session 3* **Analog & Digital Sensors** Dr. Tapan Jain *Department of ECE, IIIT, NAGPUR*
05-10-2021	*Session 4* **Instrumentation in Precision Health care** Dr. Shiva Nand Singh *Department of ECE, NIT, Jamshedpur*	*Session 5* **Wearable sensors as a part of IoT** Dr. Nikhil Marriwala *Department of ECE (UIET) Kurukshetra University, Kurukshetra.*	*Session 6* **Design and development of MEMS based sensors for rapid detection of trace analytes** Dr. Shantanu Bhattacharya *Department of Mechanical Engineering, IIT, Kanpur.*
06-10-2021	*Session 7* **Sensor Fabrication Technologies - An Overview** Dr.J.Kathirvelan *Department of Sensor Technology, VIT, TN*	*Session 8* **Satellite IoT connectivity for LoRa Technology** Dr.M.Arun *Department of Embedded Technology VIT, TN*	*Session 9* **Stress Management** Dr. S. Prabakar *School of Social Sciences and Languages, VIT, TN*
07-10-2021	*Session 10* **Advancements in Gas Sensor Technology** Dr. Rahul Prajesh *Senior Scientist, CSIR, Pilani Rajasthan*	*Session 11* **Biosensors and its Applications** Dr. Nikhil Marriwala Dept. of ECE (UIET) *Kurukshetra University, Kurukshetra.*	*Session 12* **Real time ECG signal acquisition and Analysis using LABVIEW** Dr.U.S.Ragupathi *Department of E&I Kongu Engineering College, Tamilnadu*
08-10-2021	*Session 13* **Sensors in the vehicle** Dr.N.Nedunchezian *Department of Automobile Engineering IRTT, Erode, Tamilnadu*	*Session 14* **Introduction to the Wireless Sensor Networks** Dr.L.Raja *Department of ECE Sri Eshwar College of Engineering, Tamilnadu*	*Session 15* *Valediction, Examination & Feedback*

Date: 04-10-2021 to 08-10-2021

K.S.R. College of Engineering, Department of Electronics and Communication Engineering

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The Speakers for the 5-day Workshop on "SENSORS TECHNOLOGY"

Dr.P.S.PERIASAMY
Prof-Head, ECE, KSRCE

Educational Qualifications:

Ph.D. (Image Processing) – Anna University
M.E. (ECE) – Govt College of Technology, Coimbatore, Tamilnadu
B.E. (Electrical and Electronics Engineering)- Govt College of Engineering, Salem.

Teaching Experience: 30 Years

Professor - Head, ECE, KSRCE

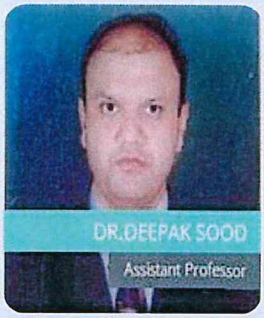
Interested Areas: Digital Image Processing, Sensors Design, Digital Signal Processing.

Patent: 02

Publications:

International Journal: 44, National Journal: 02, Internal Conference: 09, National Conference: 09

Book Chapters: 02



Dr.DEEPAK SOOD
Asst. Professor, ECE

Educational Qualifications:

PhD From Kurukshetra University
M. Tech. From Kurukshetra University
B. E. in Electronics and Telecommunication Engineering From Kurukshetra University

Teaching Experience: 20 Years

Interested Areas: Sensors

Publications:

International Journal: 40

Dr.TAPAN KUMAR JAIN
Asst. Professor & HOD, ECE

Educational Qualifications:

PhD in Wireless Sensor Network from JUIT, Solan (2016)
M. Tech. in ECE from COEP (2005)
B. E. in Electronics and Telecommunication Engineering form RGPV, Bhopal (2001)

Total Experience: 18 Years

July 2018 to till date - Assistant Professor, IIIT Nagpur
July 2015 - July 2018 - Assistant Professor, IIIT Kota
August 2009 - July 2015 - Assistant Professor, JUIT Solan
2007 - August 2009 - Sr. Software Engineer, CRMnext India
July 2005 - May 2009 - Software Engineer, KLA Tencor India Pvt. Ltd.

Publications:

International Journal: 04

Dr. SHIVA NAND SINGH
Professor, ECE

Educational Qualifications:

PhD From NIT Jamshedpur
M. Tech. RIT Jamshedpur
B. Tech. BIT MEshra

Teaching Experience: 35 Years

July 2018 to till date - Assistant Professor, IIIT Nagpur
July 2015 - July 2018 - Assistant Professor, IIIT Kota
August 2009 - July 2015 - Assistant Professor, JUIT Solan
2007 - August 2009 - Sr. Software Engineer, CRMnext India
July 2005 - May 2009 - Software Engineer, KLA Tencor India Pvt. Ltd.

Publications:

International Journal: 04

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The Speakers for the 5-day Workshop on "SENSORS TECHNOLOGY"

Dr. NIKHIL MARRIWALA
Asst. Professor, ECE

Dr. Nikhil Marriwala is working as Assistant Professor and Head of the Department Electronics and Communication Engineering Department, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra. He did his PhD. from NIT, Kurukshetra in the department of Electronics and Communication Engineering. He did his post-graduation in Electronics and Communication Engineering from IASE University, and did his B-Tech in Electronics and Instrumentation from MMEC, Mullana, Kurukshetra University, Kurukshetra. His areas of interests are Software Defined Radios, Cognitive Radios, Soft Computing, Wireless Communications, Wireless Sensor Networks, Fuzzy system design, and Advanced Microprocessors. He has published more than 5 book chapters in different International books, has authored more than 10-books with Pearson, Wiley, etc. and has more than 30 publications to his credit in reputed International Journals and 20 papers in International/National conferences. He also has two patents published to his credit. He has been Chairman of Special Sessions in more than 5 International/National Conferences and has delivered a keynote address at more than 2 International conferences. He is a reviewer for many reputed journals such as the International Journal of Communication Systems, Wiley, IEEE Signal Processing Letters, International Journal of Measurement Technologies and Journal of Organizational and End User Computing (JOEUC), Egyptian Informatics Journal – Elsevier, Instrumentation Engineering (IJMTIE), International Journal of Interactive Communication Systems and Technologies (IJICST), Current Journal of Applied Science and Technology, UK. He was awarded by 'Career Guru of the Month' award by Aspiring Minds. National Conference: 09

Dr. SHANTANU BHATTACHARYA
Professor, Dept. of Mechanical Engineering

Shantanu Bhattacharya (Ph.D.) is GVMM chair and Professor of Mechanical Engineering at Indian Institute of Technology Kanpur. He served as Head of Design Interdisciplinary program between 2017~2020 @ IIT Kanpur. Prior to this, he completed his MS in Mechanical Engineering from the Texas Tech University, Lubbock, Texas, and a Ph.D. in Bioengineering from the University of Missouri, Columbia, USA. He also completed postdoctoral training at the Birck Nanotechnology Center at the Purdue University. His main research interests are design and development of micro- and nano-sensors and actuation platforms, nano-energetic materials, micro- and nano-fabrication technologies, water remediation using visible light photocatalysis, and product design and development. He is a Senior member of IEEE and has bagged the prestigious Abdul Kalam Technological Innovation National fellowship from the Indian National Academy of Engineering. He has guided many Ph.D. and master's students and has many international journal publications, patents, books, and conference proceedings.

Dr.J.KATHIRVELAN
Associate Professor Grade 1, Department of Sensor and Biomedical Technology

Educational Qualifications:

PhD from VIT, Vellore
M.E from Jawaharlal Nehru Technological University
B.E from University of Madras

Teaching Experience: 18 Years

Professor, Vellore Institute of Technology - VIT, Vellore.

Publications:

International Journal: 05
International Conferences: 06
National Conferences: 04

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The Speakers for the 5-day Workshop on "SENSORS TECHNOLOGY"

Dr.M.ARUN
Associate Professor Sr & HOD, Department of Embedded Technology

Educational Qualifications:

PhD From Anna University, Chennai
M.E From Kongu Engineering College
B.E Thiagrajar College of Engineering.

Teaching Experience: 18 Years

Associate Professor, Vellore Institute of Technology, Vellore.

Interested Areas : High Performance Heterogeneous Computing.

Publications:

Publications:
International Journal: 41
International Conferences: 20
National Conferences: 42

Dr.S.PRABHAKAR
Associate Professor G1 School of Social Sciences and Languages

Educational Qualifications:

PhD from Pondicherry University
MSc from University of Madras
M.A from Pondicherry University
B.A from Pondicherry University

Teaching Experience: 24 Years

Associate Professor, Vellore Institute of Technology, Vellore.

Interested Areas : Human Resource Management

Publications:

International Journal: 11
International Conferences: 14, National Conferences: 08, International Conferences: 20,National Conferences: 42

Dr.RAHUL PRAJESH
Senior Scientist in Semiconductor Device Fabrication Group

Educational Qualifications:

PhD from AcSIR

Experience: 18 Years

Senior Scientist, CSIR-CEERI, Pilani.

Interested Areas : Semiconductor Device Fabrication

Patent: 02

Publications:

International Journal: 16
International Conferences: 32

Dr.U.S.RAGUPATHY
Professor, Department of Electronics and Instrumentation

Educational Qualifications:

PhD from Anna university

Experience: 24 Years

Kongu Engineering College, Tamilnadu.

Interested Areas: Image Processing, Signal Processing, VLSI, Wavelets and Soft Computing Techniques.

Patent: 02

Publications:

International Journal: 20
International Conferences: 33
National Conferences: 01

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The Speakers for the 5-day Workshop on "SENSORS TECHNOLOGY"

Dr.N.NEDUNCHEZHIAN
Associate Professor, Department of Automobile

Educational Qualifications:
PhD from Anna university

Experience: 24 Years
IRTT, Tamilnadu

Interested Areas : IC Engine & Combustion, Automotive Embedded Systems

Publications:
International Journal: 75
International Conferences: 22

Dr.L.RAJA
Associate Professor, ECE

Educational Qualifications:
PhD from Anna university
M.E From Kongu Engineering College

Experience: 16 Years
Shri Eswar College of Engineering, Tamilnadu

Interested Areas: Wireless Sensor Networks

Publications:
International Journal: 05
International Conferences: 10

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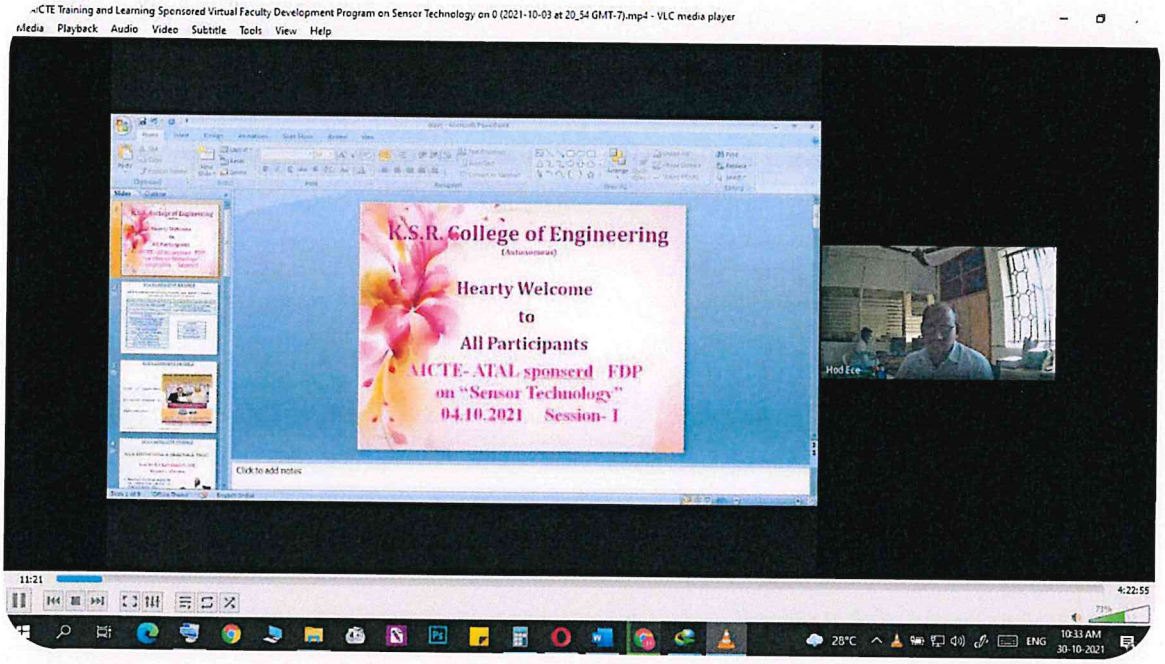
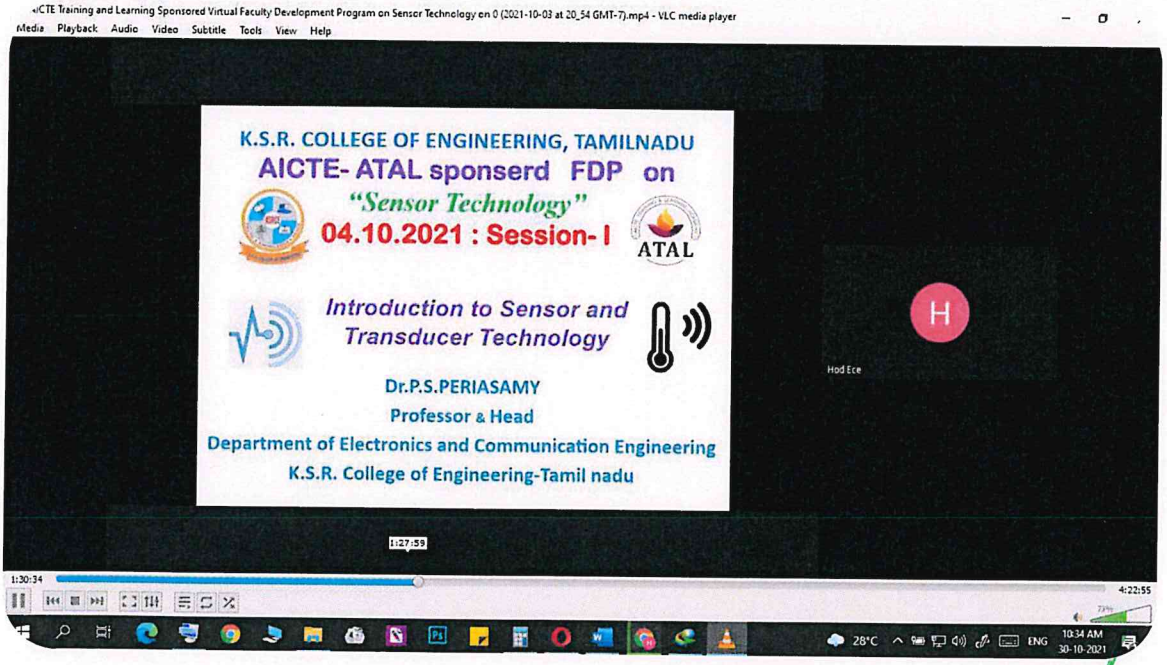
The screenshots of the participants taken on the closing are:-





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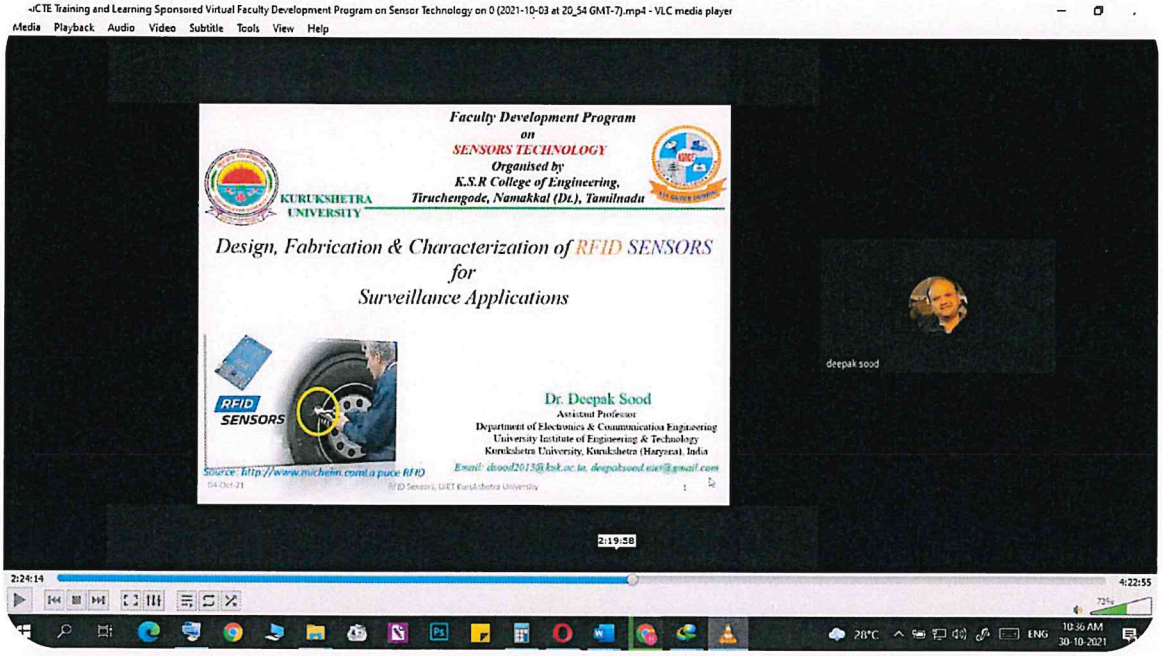

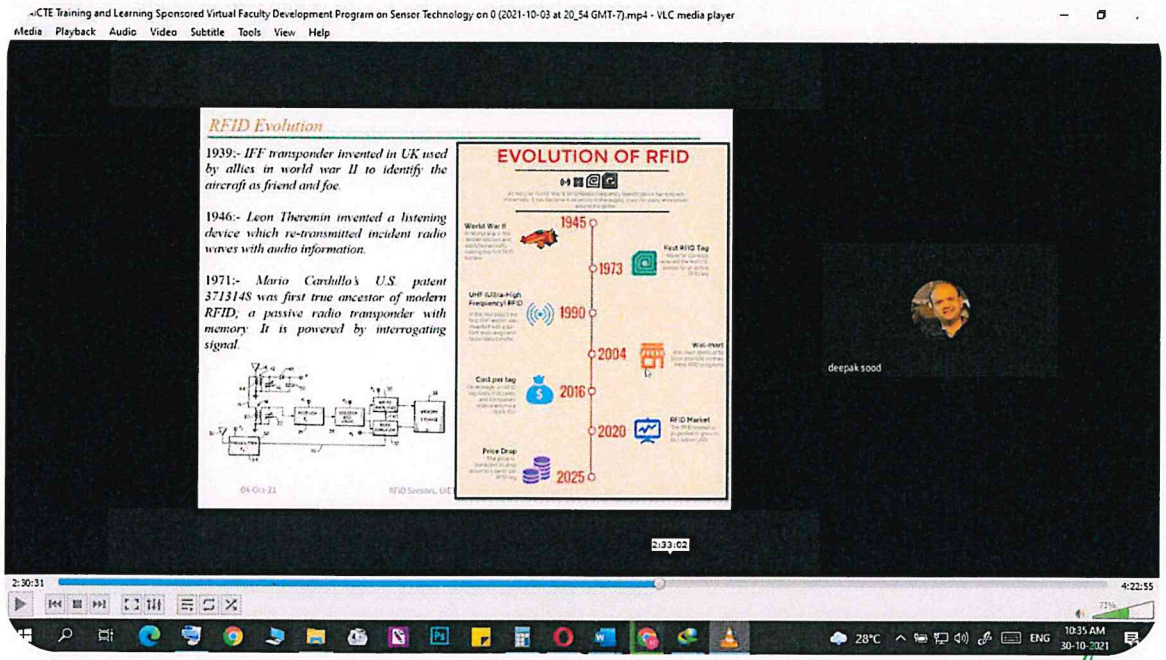

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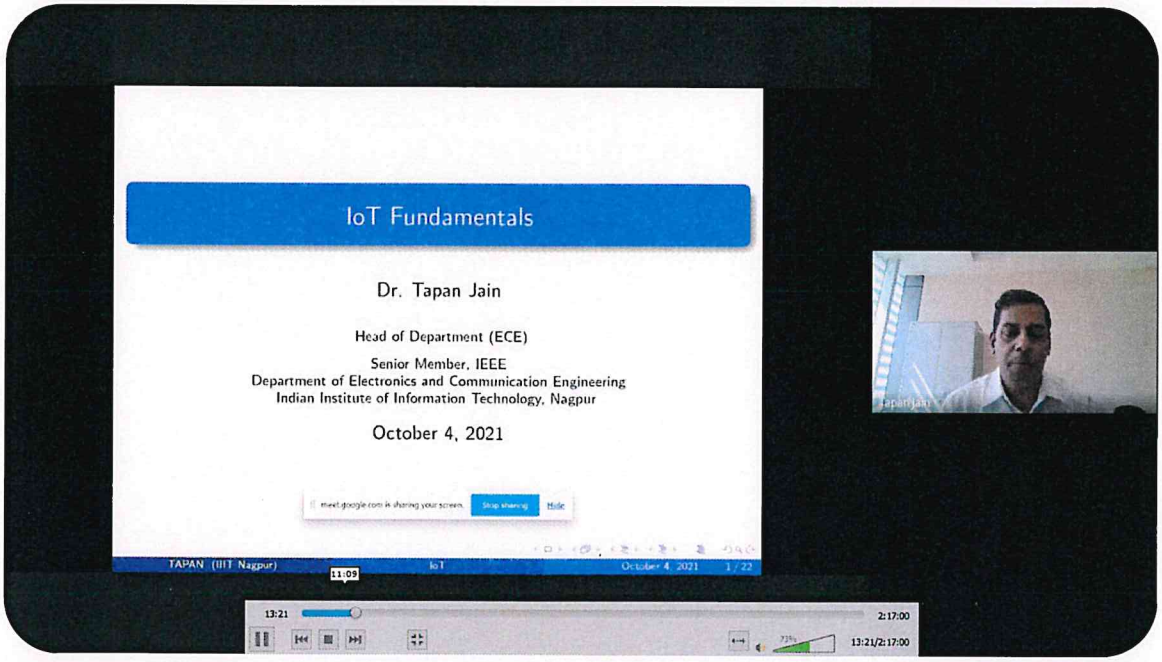
IoT Fundamentals
Dr. Tapan Jain
Head of Department (ECE)
Senior Member, IEEE
Department of Electronics and Communication Engineering
Indian Institute of Information Technology, Nagpur
October 4, 2021
TAPAN (IIIT Nagpur)
IoT
October 4, 2021
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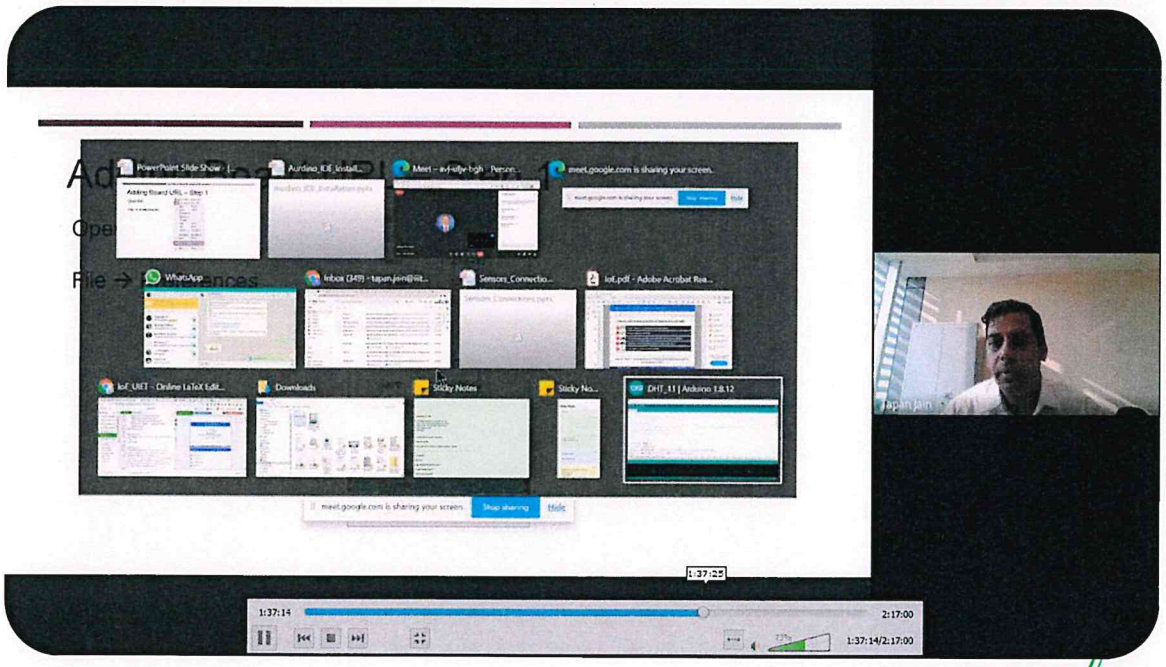
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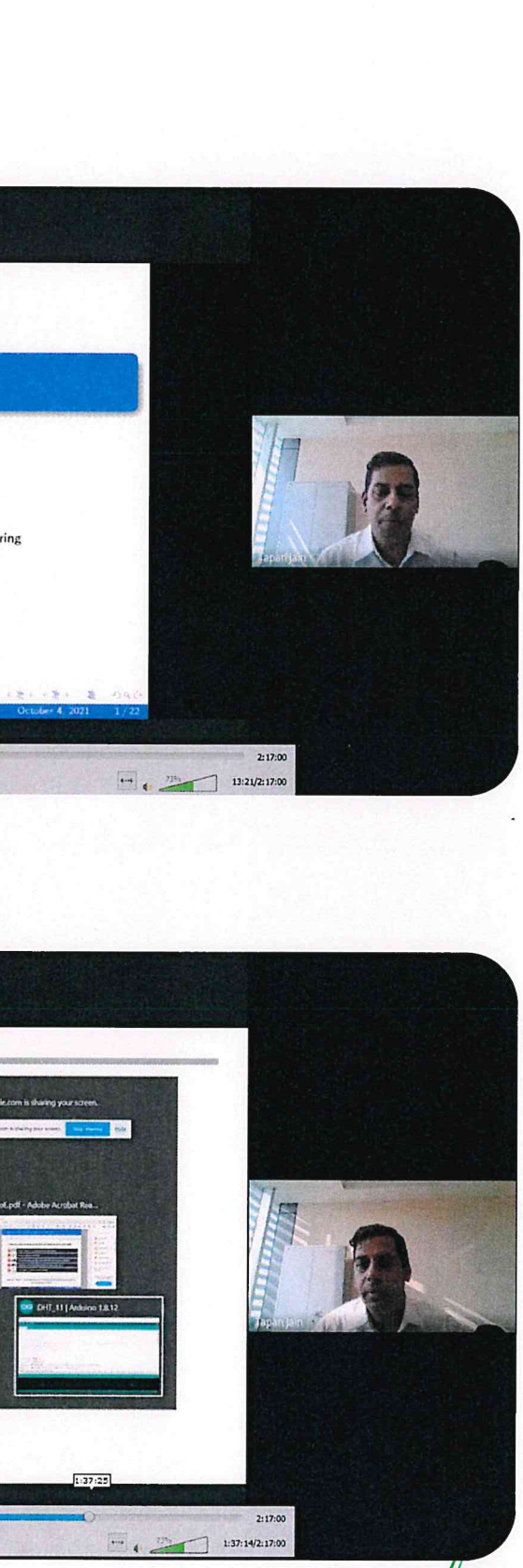
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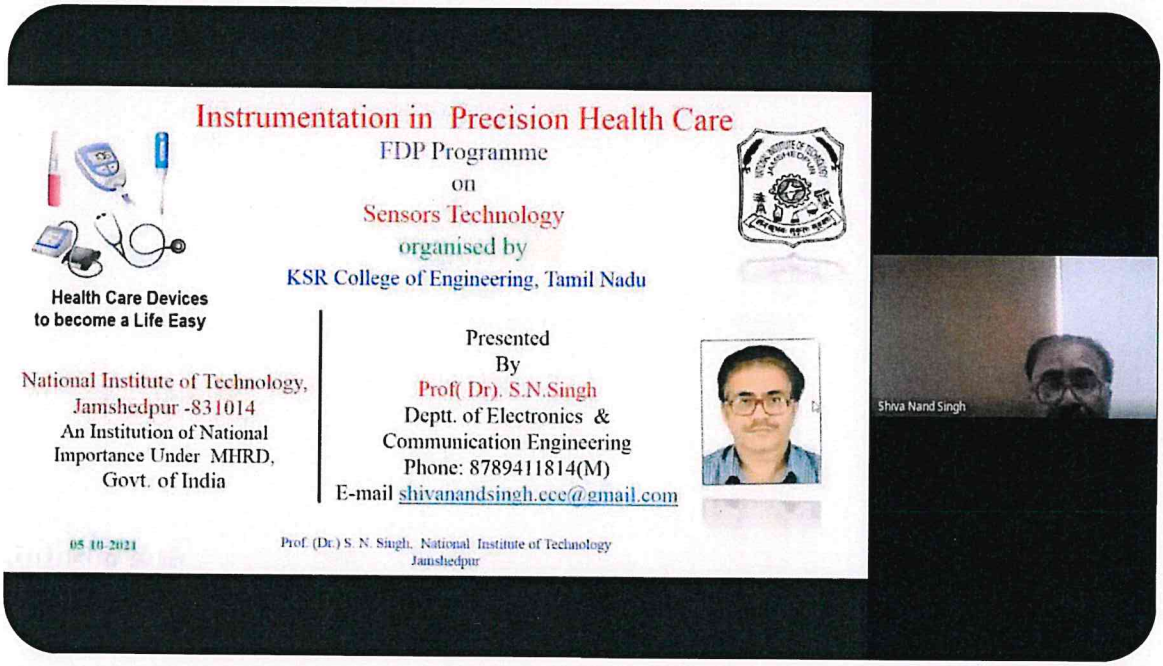

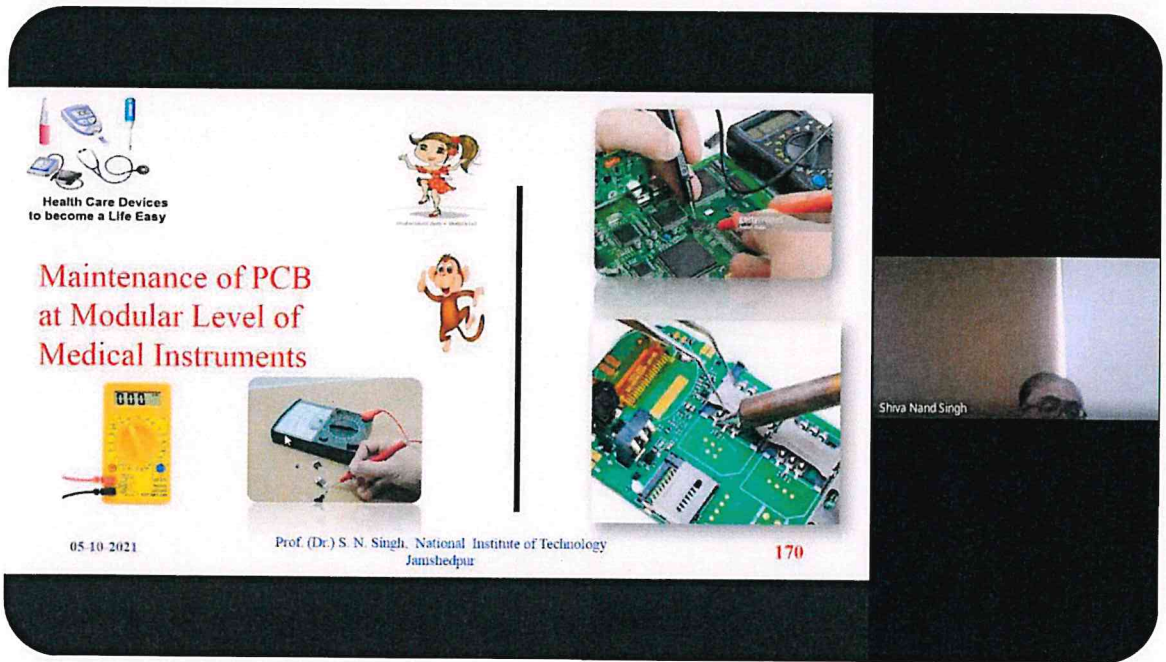

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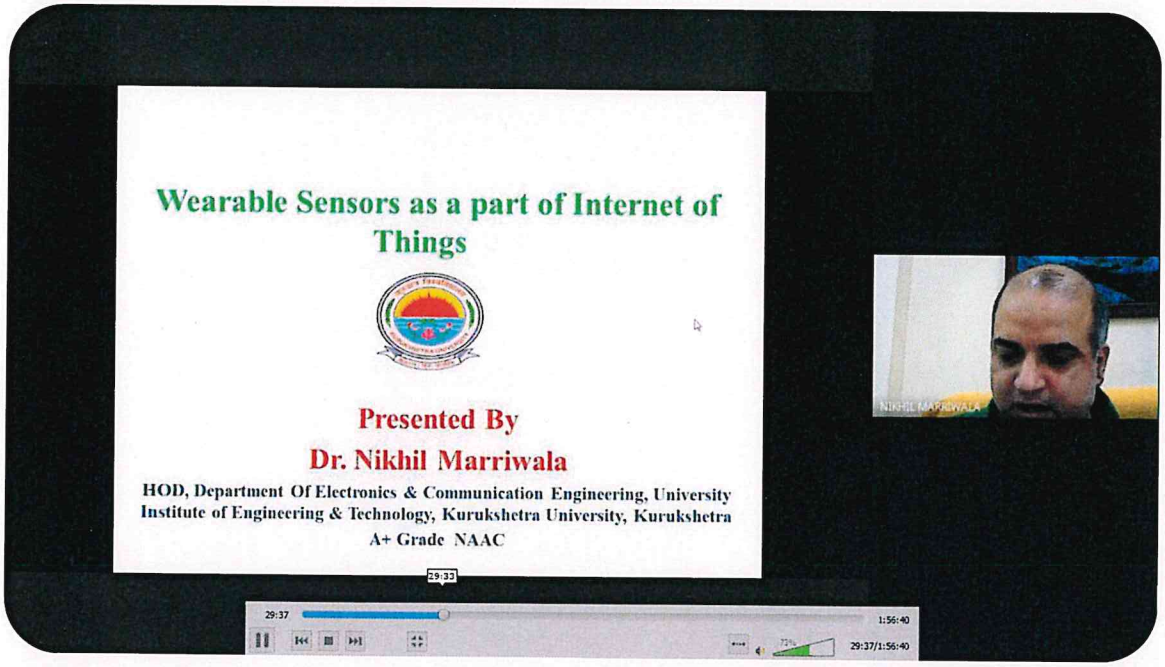

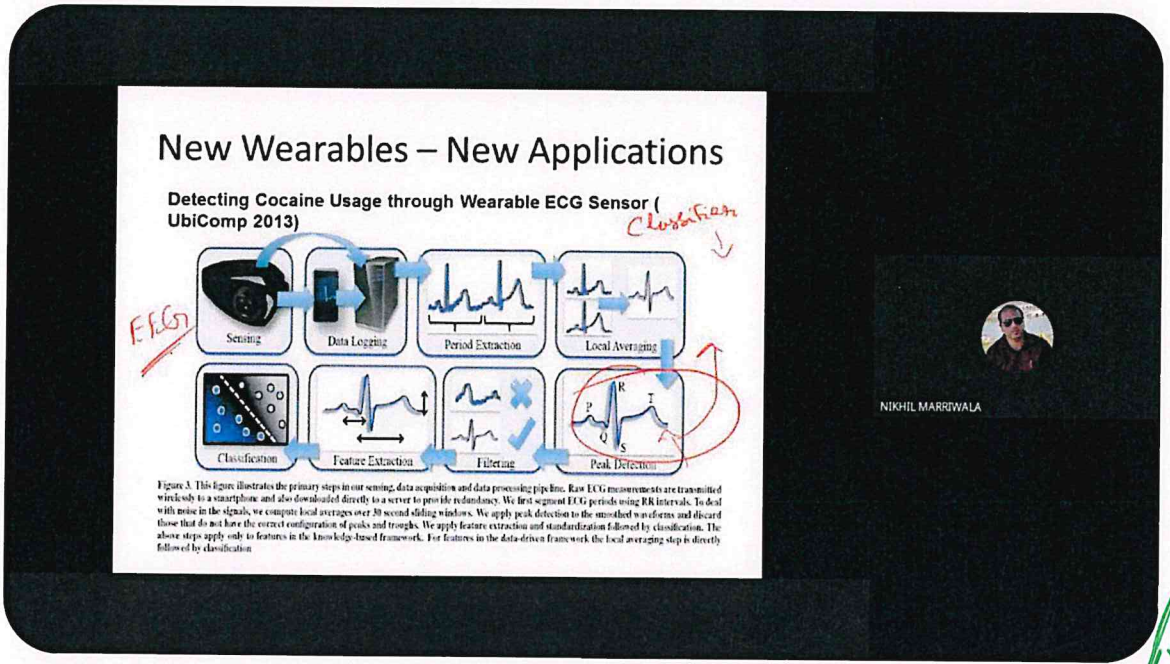

Figure 3. This figure illustrates the primary steps in our sensing, data acquisition and data processing pipeline. Raw ECG measurements are transmitted wirelessly to a smartphone and also downloaded directly to a server to provide redundancy. We first segment ECG periods using RR intervals. To deal with noise in the signals, we compute local averages over 30 second sliding windows. We apply peak detection to the smoothed waveforms and discard those that do not have the correct configuration of peaks and troughs. We apply feature extraction and standardization followed by classification. The above steps apply only to features in the knowledge-based framework. For features in the data-driven framework the local averaging step is directly followed by classification

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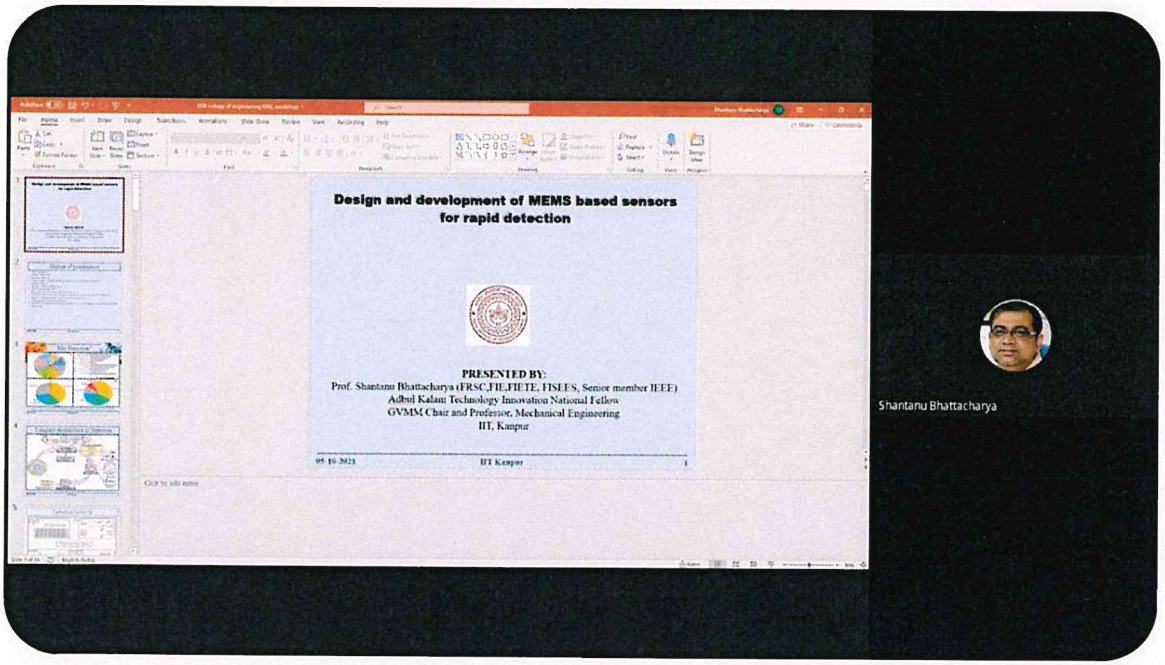


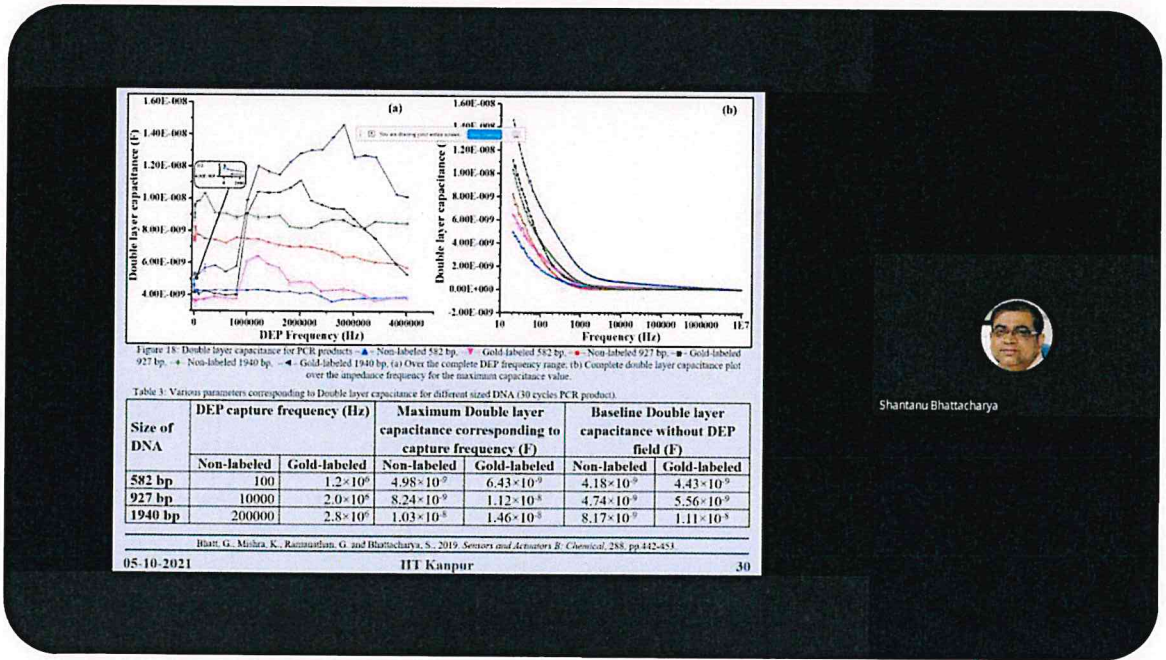
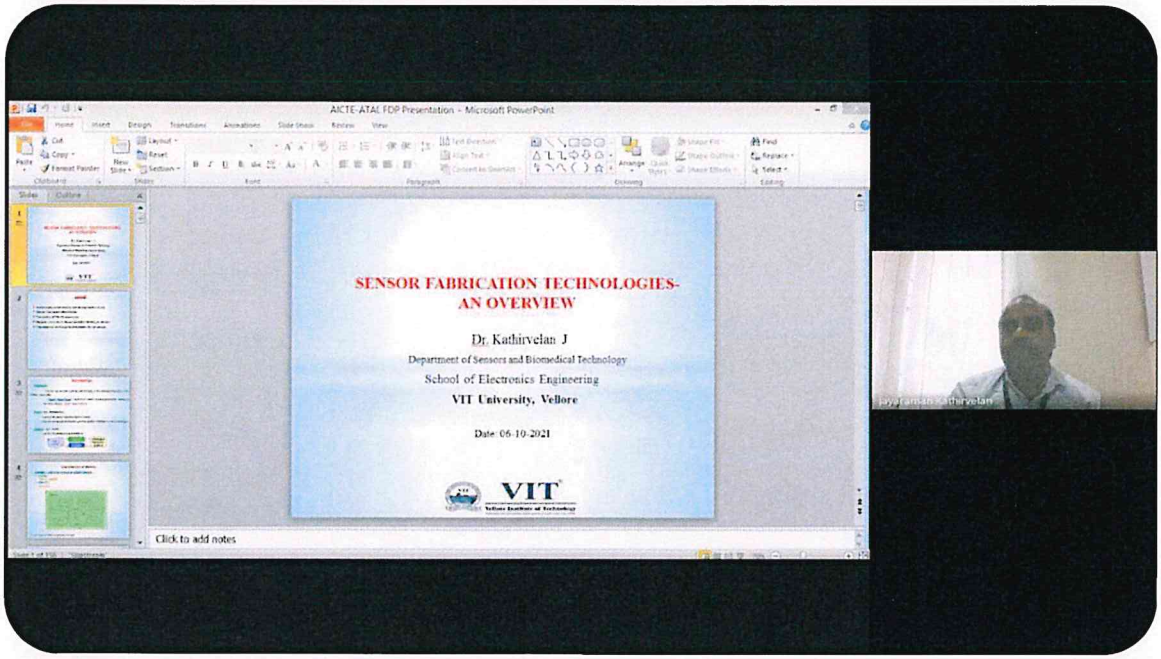


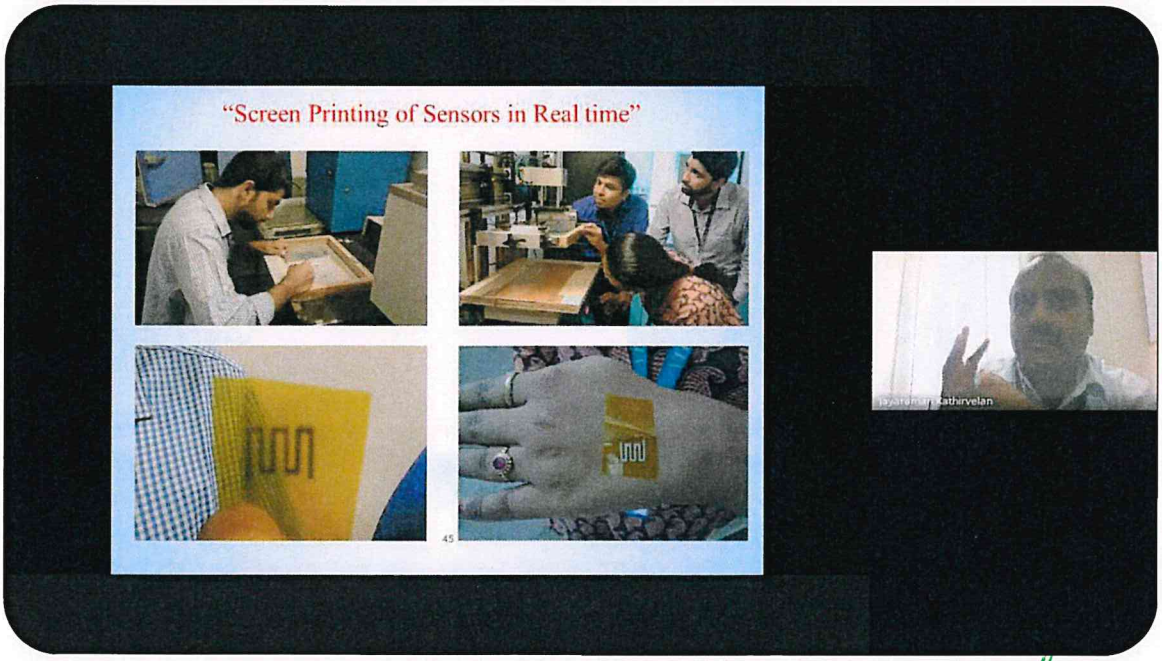
Figure 18: Double layer capacitance for PCR products – ▲ – Non-labeled 582 bp, ▼ – Gold-labeled 582 bp, ● – Non-labeled 927 bp, ■ – Gold-labeled 927 bp, ◆ – Non-labeled 1940 bp, ◀ – Gold-labeled 1940 bp. (a) Over the complete DEP frequency range. (b) Complete double layer capacitance plot over the impedance frequency for the maximum capacitance value.

Table 3: Various parameters corresponding to Double layer capacitance for different sized DNA (30 cycles PCR product).

Size of DNA	DEP capture frequency (Hz)		Maximum Double layer capacitance corresponding to capture frequency (F)		Baseline Double layer capacitance without DEP field (F)	
	Non-labeled	Gold-labeled	Non-labeled	Gold-labeled	Non-labeled	Gold-labeled
582 bp	100	1.2×10^{6}	4.98×10^{-9}	6.43×10^{-9}	4.18×10^{-9}	4.43×10^{-9}
927 bp	10000	2.0×10^{8}	8.24×10^{-9}	1.12×10^{-8}	4.74×10^{-9}	5.56×10^{-9}
1940 bp	200000	2.8×10^{6}	1.03×10^{-8}	1.46×10^{-8}	8.17×10^{-9}	1.11×10^{-8}

Bhatt, G., Mishra, K., Ramnathan, G. and Bhattacharya, S., 2019. *Sensors and Actuators B: Chemical*, 288, pp.442-453.





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Co-ordinator

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- Submitted Applications
- Edit Resource Person
- Profile
- FDPs/CPDPs/Workshops
- FDP/CPDP/Workshop Schedule
- Applied Participants
- Approved Participants
- Test Marks
- Feedbacks
- Attendance
- Certificate
- Important Documents

Feedback Details

Thrust Area :	Engineering
Sub-thrust Area :	Sensors Technology
FDP Title :	AICTE Training and Learning Sponsored Virtual Faculty Development Program on S Technology
FDP/CPDP/Workshop held at (Institute/Organisation Name) :	K S R College of Engineering
From:	2021-10-4
To :	2021-10-8
Course Code:	1614147154

Ratings have been provided on a **5-point scale.**

1. You strongly disagree with the statement
2. You disagree with the statement
3. You neither agree nor disagree with the statement
4. You agree with the statement
5. You strongly agree with the statement

About the Content of the FDP/CPDP/Workshop	
The FDP/CPDP/Workshop content was relevant for me	5
The content of the FDP/CPDP/Workshop was very comprehensive	4
The content of the FDP/CPDP/Workshop was not repeated	5
The OVERALL content of the FDP/CPDP/Workshop was excellent	5
About Trainers and Teaching	
The trainers had very strong expertise in the area	4
The trainers had excellent communication skills	5
All the trainers made the FDP/CPDP/Workshop very interesting	4
The trainers were very well prepared for the FDP/CPDP/Workshop	5
About the FDP/CPDP/Workshop	
The FDP/CPDP/Workshop timings were very convenient	4
The pedagogy used in the FDP/CPDP/Workshop was very appropriate	4
There were sufficient breaks in between sessions	4
Workshop Assessment	
The FDP/CPDP/Workshop assessment was very suitable	4
The FDP/CPDP/Workshop assessment was not at all difficult	4
Administrative Support	
I did not face any connectivity issue because of the portal	5
The Audio and Video quality were excellent	4
The registration process was extremely efficient and smooth	5
The ATAL academy website is easy to navigate	5

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Information about ATAL academy was easily available	4
OVERALL – how would you rate the FDP/CPDP/Workshop	
Considering your overall with the FDP/CPDP/Workshop, how likely are you to recommend the FDPs/CPDPs/Workshops conducted by ATAL academy to your friend or colleague? **This question is answered on a 10-point scale with 1 being Highly UNLIKELY to Recommend and 10 being Will definitely Recommend**	9
Resource Persons	
1st Best resource person/faculty:	P.S.Periasmy
2nd Best resource person/faculty:	Tapan Jain

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