



**EASWARI ENGINEERING COLLEGE**  
**(Autonomous)**  
Bharathi salai, Ramapuram, Chennai



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**&**  
**DEPARTMENT OF BIOMEDICAL ENGINEERING**

**TWO-WEEK ONLINE FACULTY DEVELOPMENT PROGRAM ON**  
**DIGITAL TRANSFORMATION IN HEALTHCARE**

## INAUGURAL FUNCTION – 02/08/2021

Department of Electronics and Communication Engineering & Department of Biomedical Engineering, Easwari Engineering College have successfully completed the Two-Week Online Faculty Development Programme on Digital Transformation in Healthcare from 02.08.2021 to 16.08.2021.

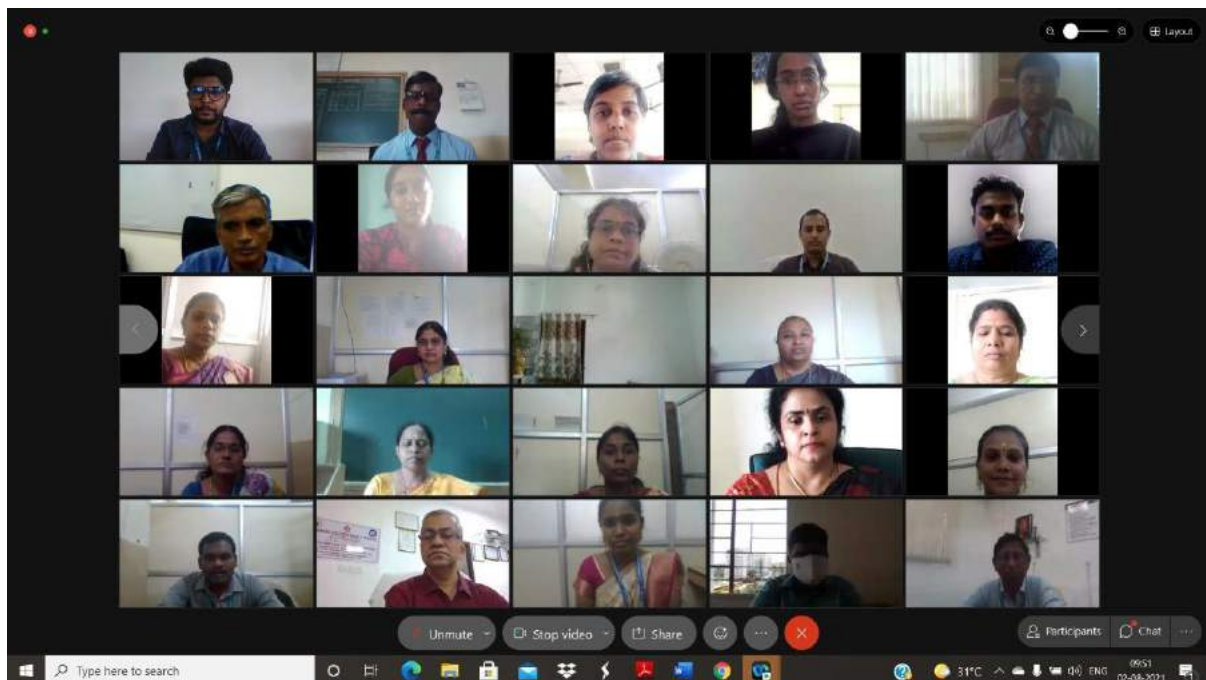
The FDP was inaugurated by Dr. V. Subbiah Bharathi, Director, SRM Group of Institutions - Ramapuram on 02.08.2021 at 09.15 am.

Dr. M. Devaraju, Professor & Head/ECE, delivered the Welcome Address.

Dr. G. Babu, Professor & Head/BME, gave an Overview of the FDP.

Dr. R. S. Kumar, Principal of Easwari Engineering College delivered the Presidential Address.

Ms. S. Caroline Jebakumari, A.P./ECE, delivered the Vote of Thanks.

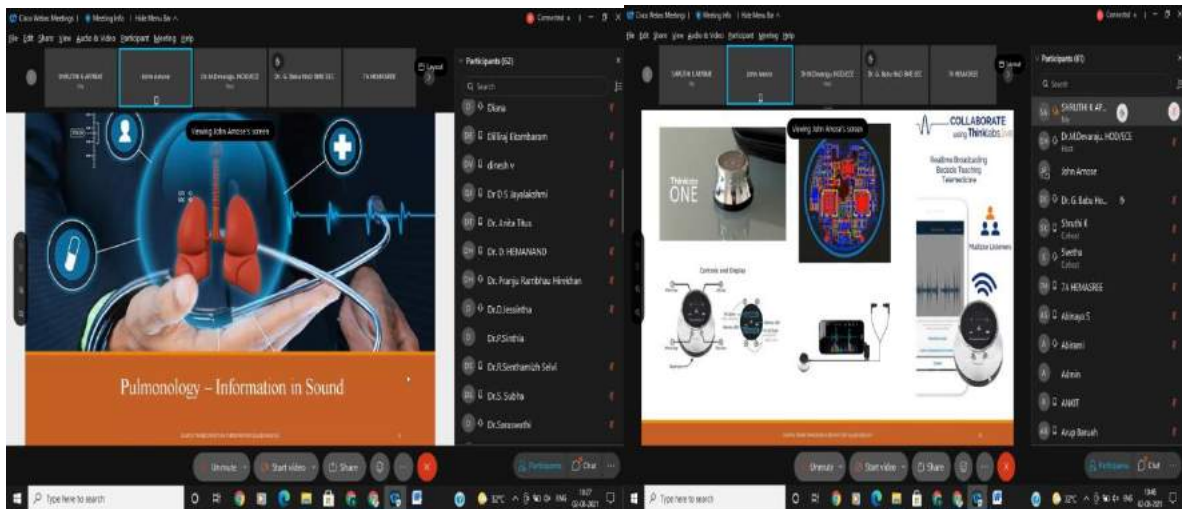


## SESSION 1 : 02.08.2021

The session started following the inauguration. Ms. K. Shruthi, A.P./BME introduced the distinguished speaker.

Guest Speaker : **Mr. John Amose**, Assistant Professor (Sr. G.) Department of Biomedical Engineering, KPR Institute of Engineering and Technology, Coimbatore.

Topic : Digital Transformation in Respiratory Sound Analysis



## SESSION 2 : 03.08.2021

Guest Speaker : **Mr. T. Saneesh Cleatus**, Associate Professor/ECE, BMS Institute of Technology and Management, Bangaluru.

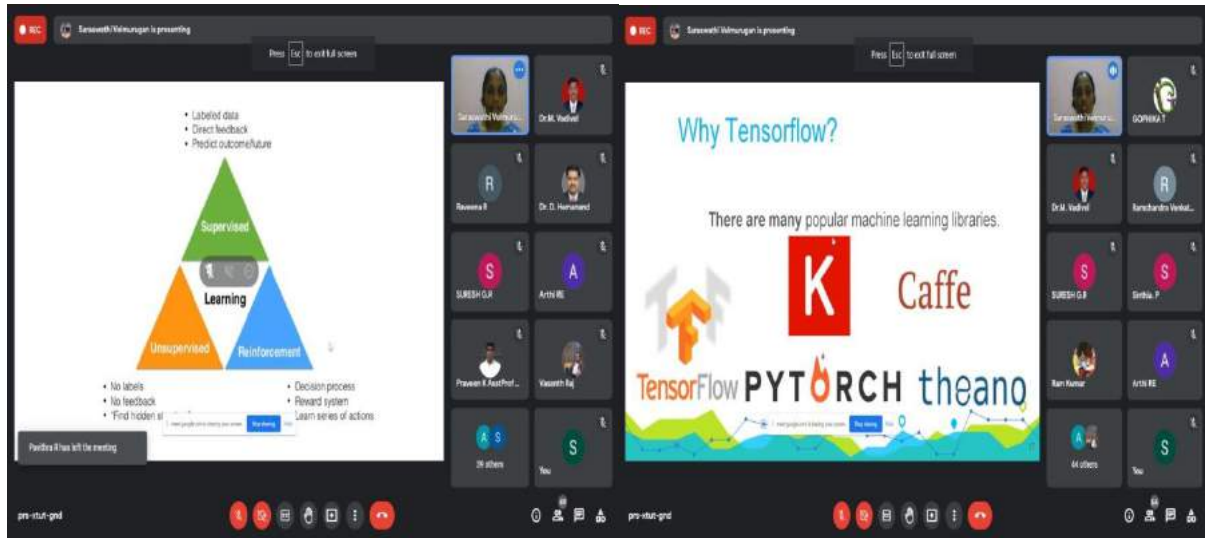
Topic : Deep Learning Approaches in Biomedical Signal Processing



### SESSION 3 : 04.08.2021

Guest Speaker : Dr. B. Saraswathi, Associate Professor/ECE, MVIT, Puducherry.

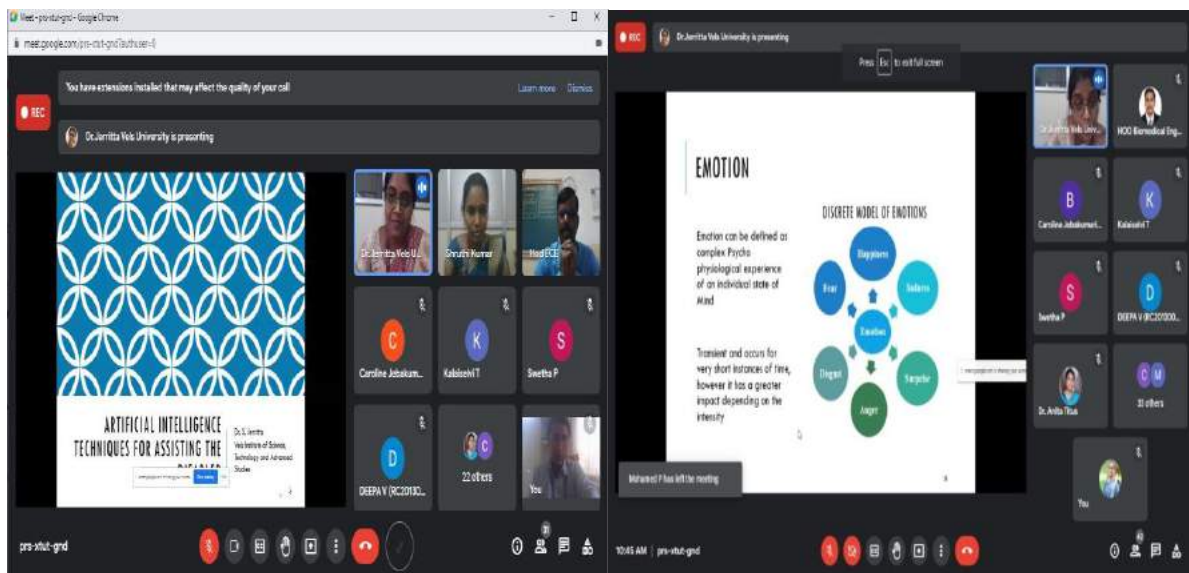
Topic : Hands-On With Google AI



### SESSION 4 : 05.08.2021

Guest Speaker: Dr. S. Jerritta, Associate Professor/ECE, School of Engineering, VISTAS, Chennai.

Topic: Artificial Intelligence for Assisting the Disabled



## SESSION 5 : 06.08.2021

Guest Speaker: Dr. C. Ram Kumar, Associate Professor, Department of Biomedical Engineering, Dr.NGP Institute of Technology, Coimbatore.

Topic: Scope of Bio-Fabrication Systems Towards Research

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the title "Bio-Fabrication Systems towards Research" and the name "DR. C. RAM KUMAR B.E., M.E., Ph.D. Associate Professor / BME Dr. N.G.P. Institute of Technology". A secondary window shows a slide titled "Introduction to cardiovascular system" with a diagram of the heart and text describing its components and types of blood vessels.

## SESSION 6 : 07.08.2021

Guest Speaker : Mr. B. Govardhan, Assistant System Engineer, Tata Consultancy Services, Kochi.

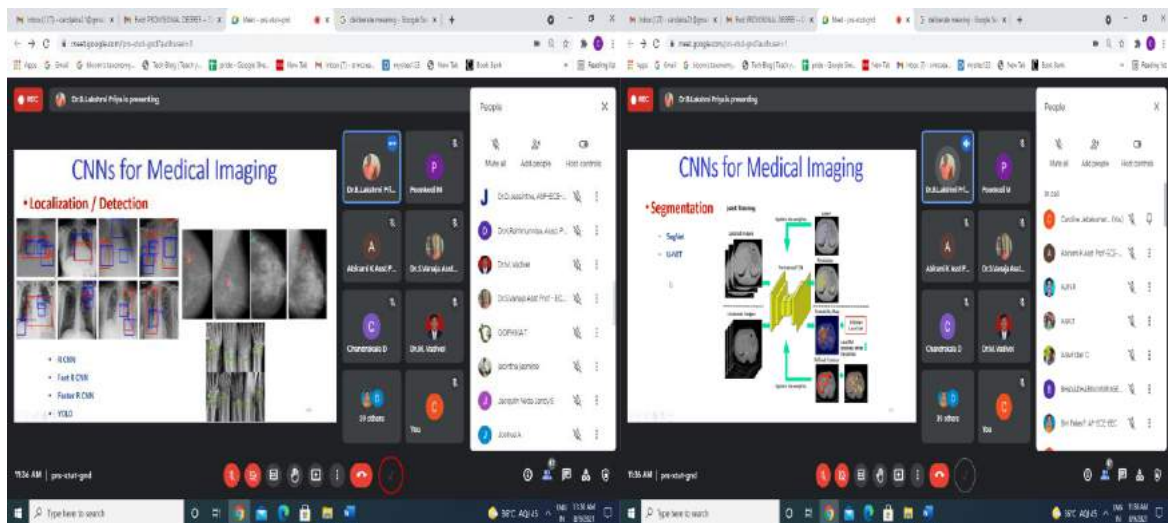
Topic : AI – A Prognostic and Diagnostic Tool

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the title "AI enables the machine to think..." and a diagram illustrating the relationship between Artificial Intelligence, Machine Learning, and Deep Learning. The diagram shows three overlapping circles: Artificial Intelligence (outermost), Machine Learning (middle), and Deep Learning (innermost).

## SESSION 7 : 09.08.2021

Guest Speaker : Dr. B. Lakshmi Priya, Post-Doctoral Fellow, Department of Surgical Gastroenterology, Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry.

Topic: CNN for Medical Imaging



## SESSION 8 : 10.08.2021

Guest Speaker : Dr. C. Sheela Sasikumar, Director- Clinical Research, S.S.Healthcare, Head Clinical Research, Hycare Super Speciality Hospital, Chennai.

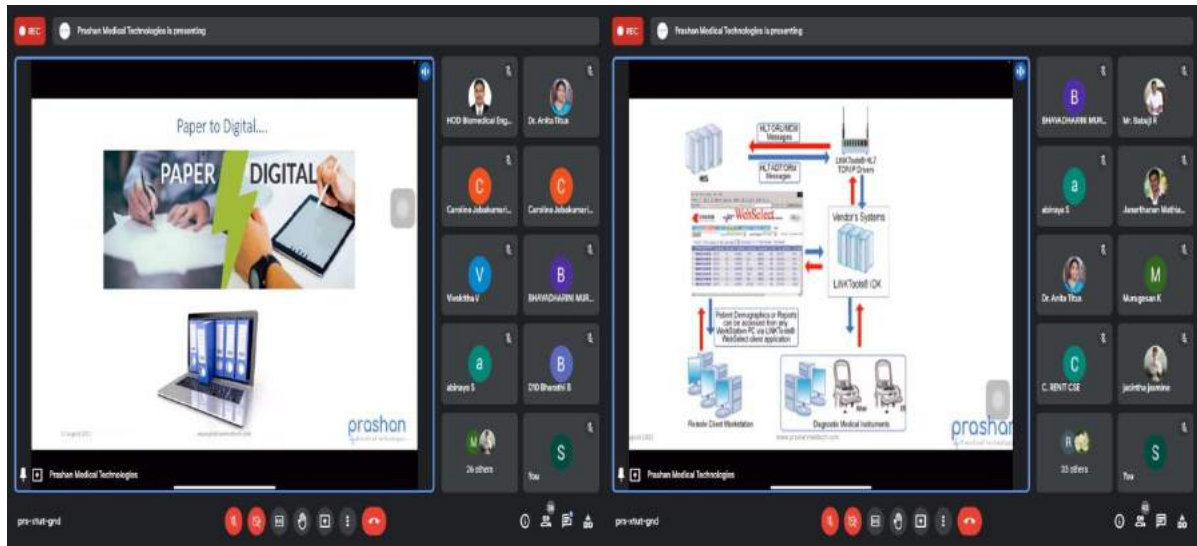
Topic : 3D Bioprinting of Tissues and Organs - Future of Healthcare



## SESSION 9 : 11.08.2021

Guest Speaker : Mr. BoopathiSakthivel, Founder, CEO & Biomedical Engineer, Prashan Medical Technologies, Coimbatore.

Topic : Roles & Importance of HIS(hospital information system) in the Medical Industry



## SESSION 10 : 12.08.2021

Guest Speaker : Dr.BaluRanganathan, Co-Founder & Technology - Director, Palms Connect LLC, Utah, USA.

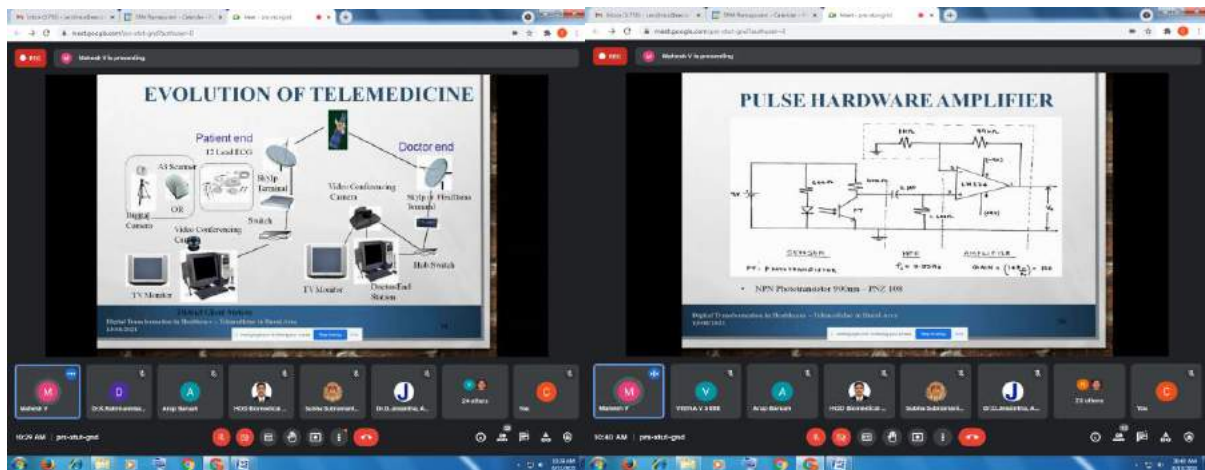
Topic : Nano formulation for Breast Cancer Therapy



## SESSION 11 : 13.08.2021

Guest Speaker: Dr.V.Mahesh, Associate Professor, Department of Biomedical Engineering, SSN College of Engineering, Chennai.

Topic : Telemedicine System for Rural Healthcare



## SESSION 12 : 14.08.2021

Guest Speaker : Dr. E. Muthu, Associate Dean (Research & Innovation), Dr.B.R.Ambedkar Institute of Technology [Govt.], Pahargaon, Port Blair.

Topic : Recent trends and advancements in telemedicine





## SESSION 13 : 16.08.2021

Guest Speaker : Ms. S. Hema Priyadarshini, A.P./ Medical Electronics, Dayananda Sagar College of Engineering, Bangaluru.

Topic : Interpretation of Cardiovascular System

**Heart rate variability (HRV)**

**Introduction to cardiovascular system**

- The term cardiovascular is derived from Latin words meaning "heart and vessel"
- Cardiovascular system comprises of the blood, heart, and blood vessels
- The circulatory system of the blood has two components:
  - systemic circulation
  - pulmonary circulation
- It has 3 types of blood vessels:
  - Arteries and arterioles - carry blood away from the heart
  - Capillaries - where nutrient and gas exchange occur
  - Veins and venules - carry blood towards the heart

Average dimension: 13 x 9 x 5 cm  
Approximate weight: 300 grams

## VALEDICTORY FUNCTION

The valedictory function was conducted on 16.08.2021. Dr. R. S. Kumar, Principal of Easwari Engineering College addressed the function and Ms. Bindu Babu, A.P./ECE gave the vote of thanks.

Mr. Babuji R, Bindu Babu K, amudha maha..., Principal EEC, Abirami K Ass..., O10 Bharathi B, Ramani P, Dr.K.Rahimur..., Caroline Joba..., Ramchandra V..., Hod ECE, Prof. S. Hema ..., Shruthi.K Ass..., Dr.S.Saranya A..., Kirankumar M..., Jucinta Jasmi..., C. VENI CSE, Dr. S. Senthara..., Sivaram A..., Dr. S. Nirmala S..., Arup Baruah, S. Suruthi, AP..., Jacquelin Veda..., DEEPA V (RC2..., Vasanth Raj, Poornodi M, Raji Kumar, Rashmi R. Naik, LEENA (MIDEVI) ..., Joshua A, 29 others

