



EASWARI ENGINEERING COLLEGE

(Autonomous)

Bharathi salai, Ramapuram, Chennai



DEPARTMENT OF BIOMEDICAL ENGINEERING

EVENTS ORGANIZED ACADEMIC YEAR 2021-2022

CAREER GUIDANCE PROGRAM ON JOB OPPURTUNITIES FOR BIOMEDICAL ENGINEERS

The Department of **Biomedical Engineering** organized a **webinar on “Job Opportunities for Biomedical Engineers”** on **17.07.2021** through Google Meet platform. The speaker of this program was **Mr.Boopathi Sakthivel**, Founder, CEO & Biomedical Engineer, Prashan Medical Technologies, Coimbatore. **Jenepher Sanjeetha Sekar**, Student of I year Biomedical Engineering, had welcomed the gathering and gave a short introduction about the webinar. **Ankitha.T**, Student of I year Biomedical Engineering, had introduced the Resource Person. Mr.Boopathi Sakthivel started her presentation with a general introduction about Biomedical Engineering and Evolution of Biomedical Engineering. He had briefed the skills that Biomedical Engineers should possess and the role of Biomedical Engineers in various sectors. The session was interactive, Participants had asked their questions and gave their valuable feedback during the session. He ended the session with the services provided by “**Prashan Medical Technologies**”. On behalf of the Department of Biomedical Engineering, **Amshumathi R S**, Student of I year Biomedical Engineering, expressed the Vote of thanks.

The image shows a screenshot of a Google Meet webinar presentation. The presentation consists of four slides, each displayed in a separate window. The top-left window shows the slide titled "Future of Biomedical Instrumentation" with bullet points: "Future of Bioinstrumentation is very bright. Day by day new ideas are researched and implemented. Such as, harnessing the power of the body to power devices, bringing more advanced prosthetics, and new methods of diagnosis and treatment of diseases and problems which were not there before." The top-right window shows the slide titled "SCOPE OF OPPORTUNITIES" with a list of 16 job roles: Biomedical Professors, R&D Engineer, Hardware Engineer, Product Development Engineer, Final Quality control Engineer, Validation Engineer, Sales Engineer, Application Engineer, Product specialist, Biomedical Engineer in Hospital, Customer Support Engineer, Technical support Engineer, Service Engineer, Biomedical Entrepreneur, Quality Assurance/Regulatory Affairs, and Medical Equipment Calibration Engineer. The bottom-left window shows the slide titled "DESIRABLE SKILLS" with a list: Learning, Punctuality, Patience, Consistency, Self-confidence, Adaptability, Integrity, Communication, Work Ethic, Leadership, Team work coordination, and Smart work. The bottom-right window shows the slide titled "THINGS TO BE LEARNED TO ENTER INTO THE BIOMEDICAL FIELD" with a circular diagram containing: Logical Thinking, Skills on Electrical Instruments, Measurement, Calibration, Good Communication & Technical Knowledge, and Principle of Each Instrument & its working. The presentation includes logos for nmc, SCHILLER, and prashan.



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TWO WEEK ONLINE FDP ON DIGITAL TRANSFORMATION IN HEALTH CARE

INAUGRAL 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.

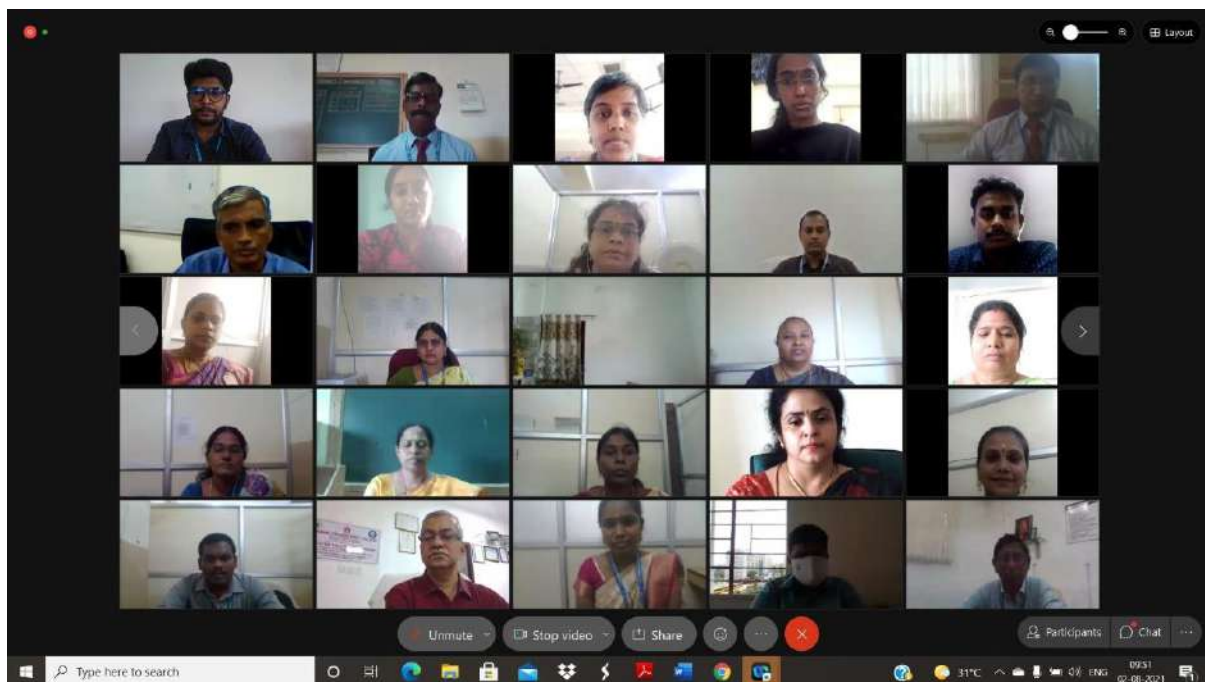
The FDP was inaugurated by Dr. V. Subbiah Bharathi, Director, SRM Group of Institutions - Ramapuram on 02.08.2021 at 09.15 am.

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.





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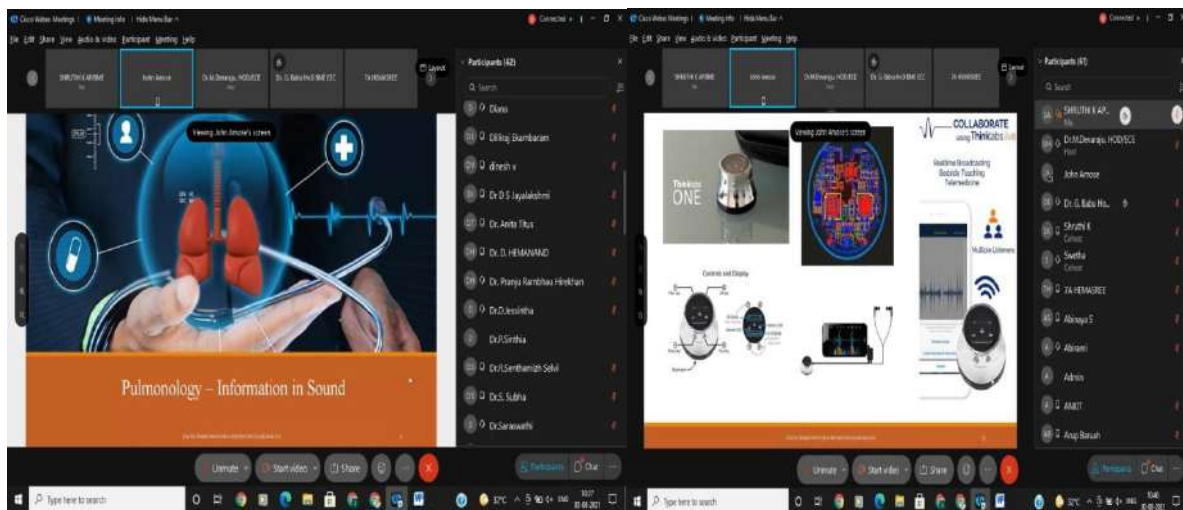
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SESSION 1 : 02.08.2021

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, Bangalore.

Topic : Deep Learning Approaches in Biomedical Signal Processing





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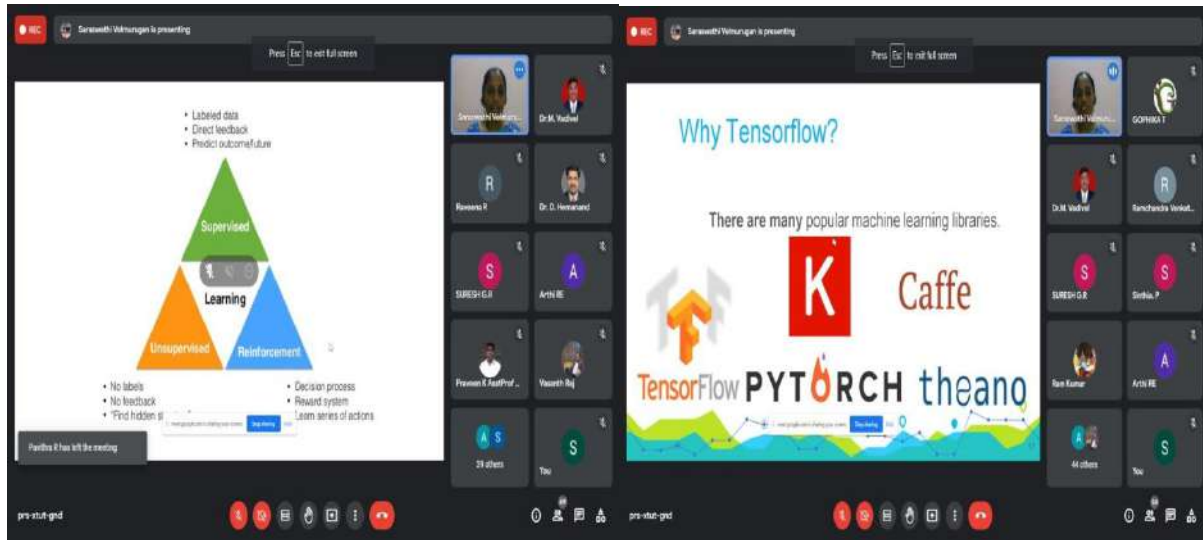


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SESSION 3 : 04.08.2021

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

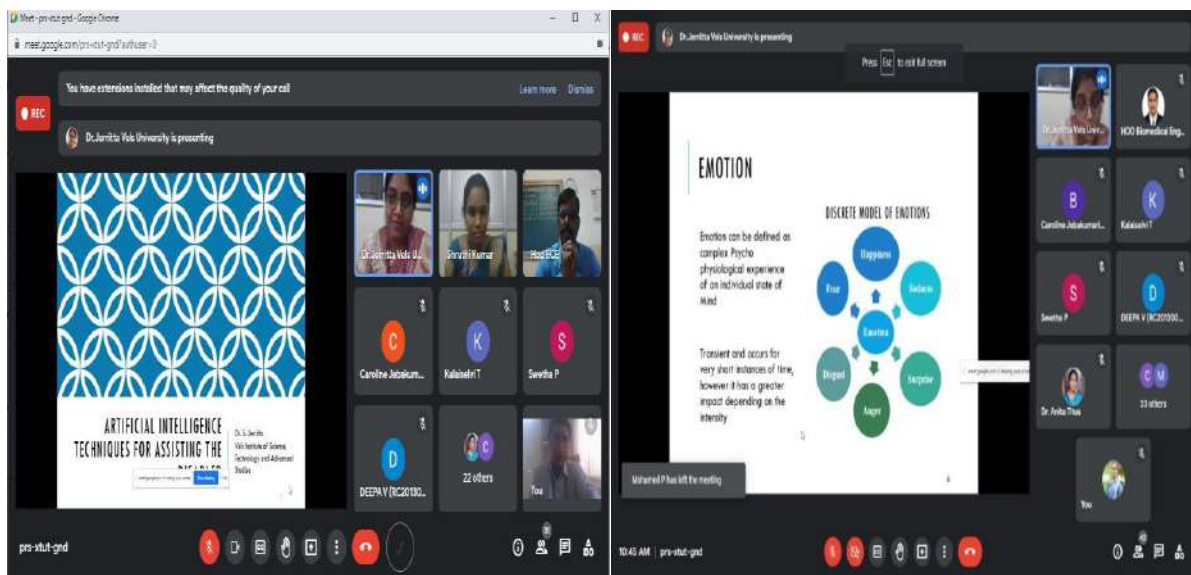
Topic : Hands-On With Google AI



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





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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 slide titled "Bio-Fabrication Systems towards Research" featuring a portrait of Dr. C. Ram Kumar, Associate Professor of BME at 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 explaining its components: systemic circulation, pulmonary circulation, and two types of blood vessels: Arteries and arterioles (carry blood away from the heart) and Capillaries (where nutrient and gas exchange occur). It also notes that Veins and venules carry blood towards the heart.

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 slide titled "AI enables the machine to think, that is without any human intervention the machine will be able to take its own decision. It is a broad area of computer science that makes machines seem like they have human intelligence." It defines Machine Learning as a subset of Artificial Intelligence that uses statistical learning algorithms to build systems that learn from experience without being explicitly programmed. It defines Deep learning as a machine learning technique that is inspired by how a human brain filters information, using a hierarchy of layers to process data. A secondary window shows a diagram illustrating the relationship between Artificial Intelligence, Machine Learning, and Deep Learning, with text explaining that Artificial Intelligence is a technology that enables machines to mimic human behavior, Machine Learning is a subset of AI that enables machines to learn from data to improve with experience, and Deep Learning is a subset of ML that enables the computation of multi-layer neural networks.



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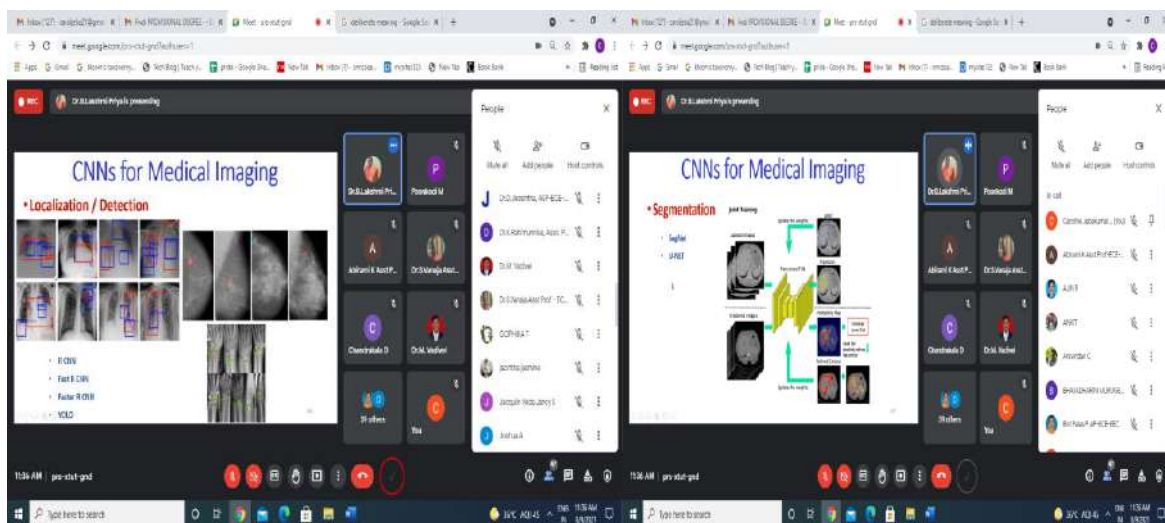


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SESSION 7 : 09.08.2021

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





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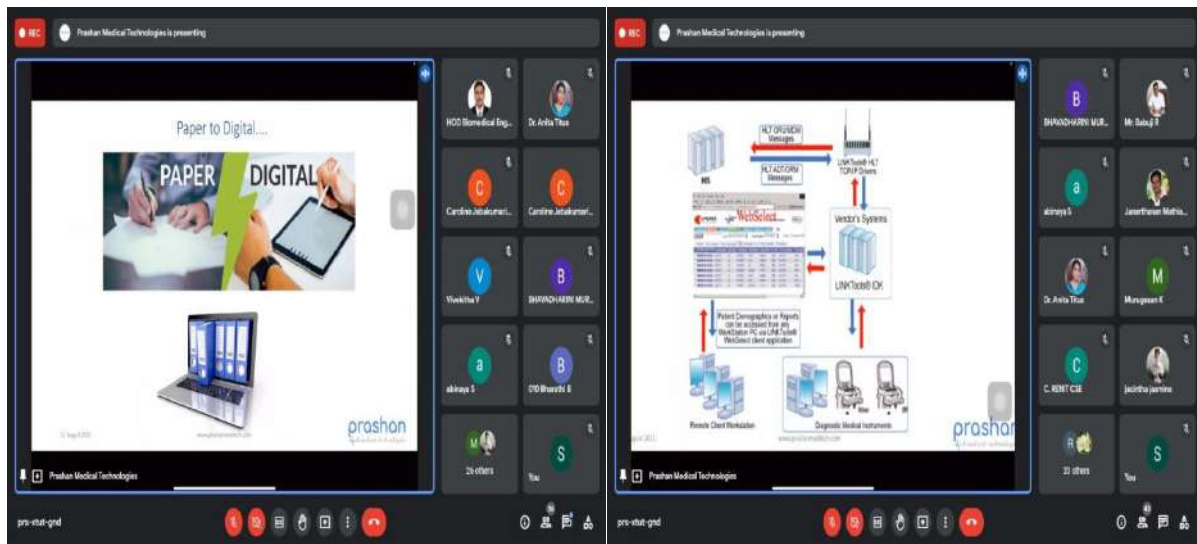


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SESSION 9 : 11.08.2021

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

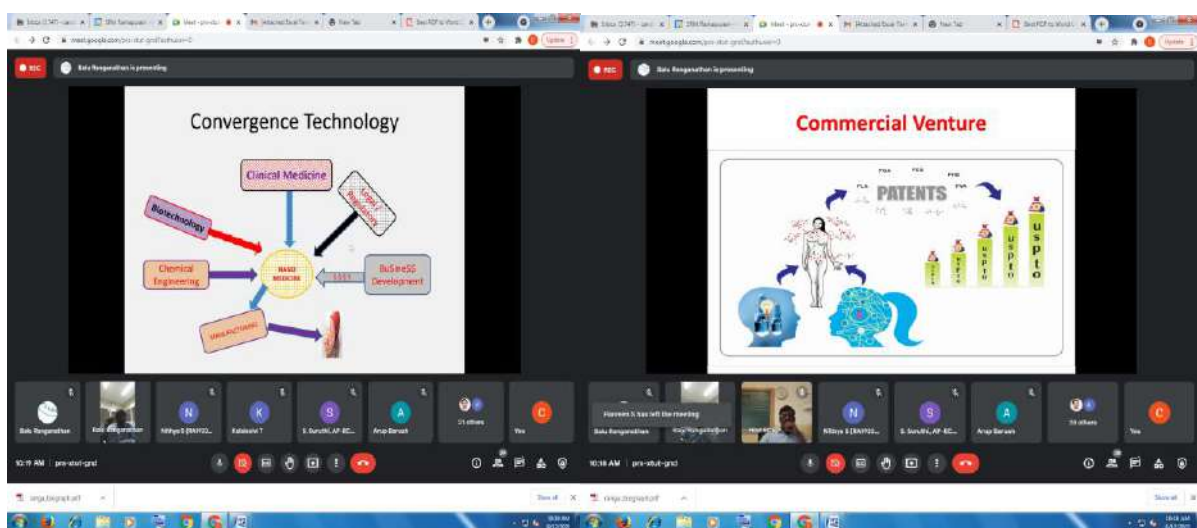
Topic : Roles & Importance of HIS(hospital information system) in the Medical Industry



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





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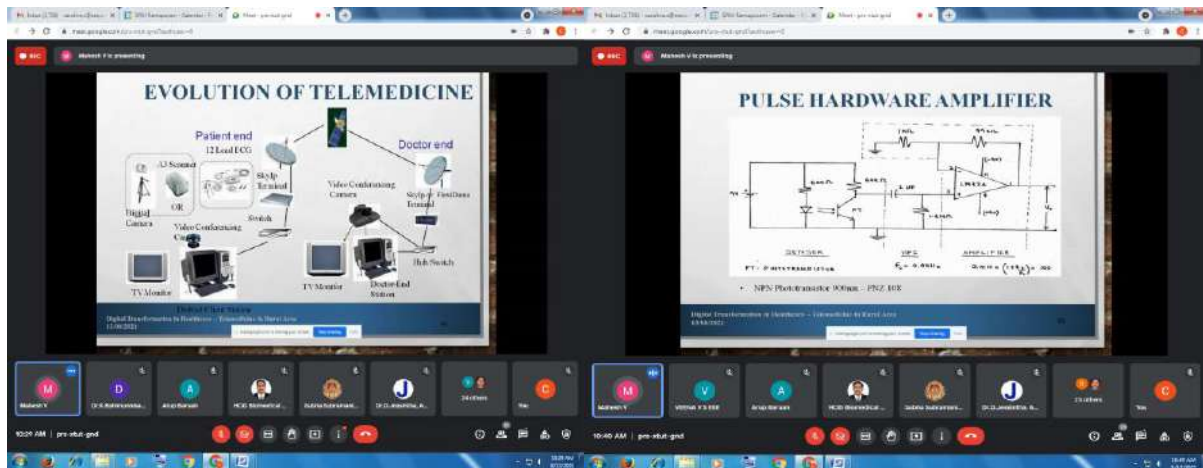


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SESSION 11 : 13.08.2021

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





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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

The screenshot shows a Google Meet interface with a presentation slide titled "Introduction to cardiovascular system". The slide contains the following text:

- 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

Additional information on the slide:

- Average dimension: 13x9x6 cm
- Approximate weight: 300 gram

The slide also features a diagram of the heart with labels for various parts: Superior vena cava, Inferior vena cava, Right Atrium, Right Ventricle, Left Atrium, Left Ventricle, Pulmonary artery, Pulmonary vein, Aorta, and Ventricle.

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.

The screenshot shows a Google Meet interface with a grid of participants. The participants are:

- M. Babuji R
- Bindu Babu K
- arnudha maha...
- Principal EEC
- Abirami K Ass...
- O10 Bharathi B
- Ramani P
- Dr.K.Rahimur...
- Caroline Jeba...
- Ramchandra V...
- Hod ECE
- Prof. S. Hema ...
- Shruthi.K Asst...
- Dr.S.Saranya A...
- Kirankumar M...
- Jacinta jasmli...
- C. SENT CSE
- S.P. Sontharini
- SREESHAM AP...
- Dr.K.Nirmala S...
- Arup Barua
- S. Suruthi, AP...
- Jaquelin Voda...
- DEEPA V (RC2...
- Vasanth Raj
- Poonkodi M
- Ravi Kumar
- Rakshi R Nair
- LEESHIMIDEVI ...
- Joshua A
- 29 others
- You