

DEPARTMENT OF BIOMEDICAL ENGINEERING

In association with

IEEE Student Chapter- AVIT & IETE students Forum $_{\rm ORGANIZE}$

Expert Talk

on

"Nuances of medical imaging techniques"

Event Title	Nuances of medical imaging techniques			
Resource Person	Dr. V. Sapthagirivasan			
	Sr. Manager, Engineering, R&D,			
	Medical Life sciences,			
	Capgemini.			
Academic year	2025-2026			
Program Type	Expert Talk			
(Workshop / Motivation speech / Field				
Visit / Competition / Others)				
Program Theme	Others			
(IPR / R&D and Innovation / Start-up /				
Entrepreneurship / Design Thinking /				
Incubation & Pre – Incubation / others)	20.00.2025			
Start date & End Date (DD/MM/YYYY)	30.09.2025			
Duration of the activity (in Mins) &	Duration:	Start Time:	End Time:	
Start Time & End Time	Mins.	10:00 AM	12.00 PM	
Participants	Students: 30	Faculty:	External: 01	
Mode of session (online / offline)	Offline			
Event Organizer / Coordinator Faculty Name / Department / Designation	Dr.Prasath S., Assoc. Prof./BME			
Target Participants	II,III & IV Year students of BME			
Outcome	The event on Nuances of Medical Imaging Techniques enhanced participants' understanding of major diagnostic modalities including X-ray, CT, MRI, Ultrasound, PET, and hybrid systems, with emphasis on their principles, applications, and limitations. Through case studies and discussions, participants gained practical insights into selecting appropriate techniques for clinical needs while also exploring recent advancements such as functional MRI, AI-based image analysis, and multimodal integration.			







EVENT BROCHURE

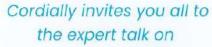












"Nuances of **Medical Imaging** Techniques"

Resource Person:

Dr. V. Sapthagirivasan Sr. Manager-Engineering, R&D

Medical Life Sciences Capgemini



29th September, 2025



09.30 AM



Digital Classroom (TBL106)

Organized by Department of Biomedical Engineering









EVENT REPORT

The Department of Biomedical Engineering in association with **IEEE Student Chapter- AVIT & IETE students Forum** conducted a program to BME Students on the topic "Nuances of medical imaging techniques" on 25.09.2025.

Dr.L.K.Hema Professor and Head of the Department ECE/BME delivered the welcome address. Then chief guest introduction by Ms.Sanga Manasa Third year BME, The chief Guest Dr. V. Sapthagirivasan, Sr. Manager, Engineering, R&D, Medical Life sciences, Capgemini., Dr. Sapthagirivasan is currently serving as Senior Manager and Subject Expert in the R&D Solutions and Imaging Center of Excellence, Medical Life Sciences at Capgemini Engineering, Bengaluru. He brings with him nearly two decades of rich experience in medical image processing and analytics, both in academia and industry. His work spans advanced areas such as multimodal image registration and fusion, 3D segmentation, 3D rendering, and analytics for various imaging modalities including CT, MRI, Ultrasound, X-ray, and endoscopy. Dr. Sapthagirivasan has contributed extensively to the development of wireless capsule endoscopy systems and image analytics platforms. He is well-versed in medical imaging standards like DICOM, workflows such as PACS, RIS, HIS, and proficient in modern AI, ML, and deep learning applications for medical imaging.

Later, The chief Guest, Dr. V. Sapthagirivasan discussed The session on *Nuances of Medical Imaging Techniques* provided participants with in-depth exposure to various diagnostic modalities such as X-ray, CT, MRI, Ultrasound, PET, and hybrid imaging systems. The outcomes of the event can be summarized as follows: Enhanced Knowledge Base like Participants gained a clear understanding of the principles, advantages, and limitations of each imaging modality. The role of image contrast, resolution, radiation safety, and patient-specific considerations was emphasized. Practical Insights gathered through the Case studies demonstrated real-world clinical applications, helping participants



relate theory to practice. Interactive discussions highlighted the importance of choosing the appropriate imaging technique based on clinical needs.

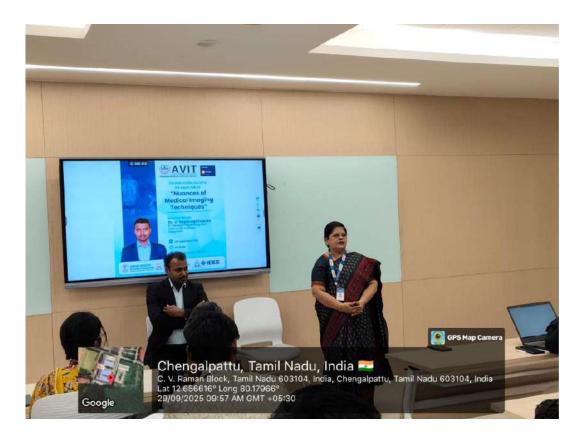
The Expert Talk was concluded by Vote of Thanks by Ms.R.Bavani, Third year BME and with group photo.

EVENT GALLERY





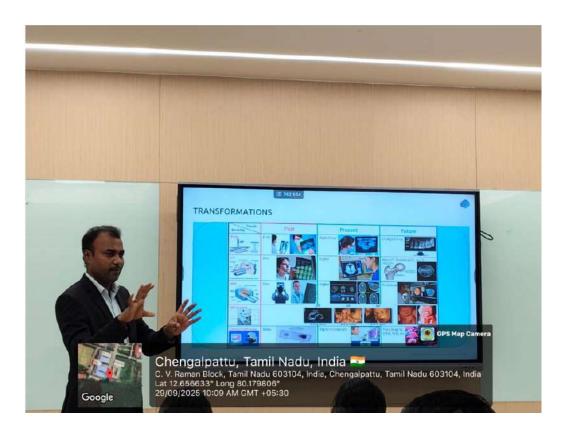
















LIST OF PARTICIPANTS















AARUPADALVEEDU INSTITUTE OF TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING Expert Talk On

" Nuvances of Medical Imaging"

Date:29.09.2025

Time 10.00 AM

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