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Dean Student Affairs,
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Dr. Prathiba M K

Associate Professor and Head, ECE,
ATMECE, Mysuru

COORDINATORS

Dr. Veerapathap V

Associate Professor,
Dept. of ECE

Dr. Shalini Hanok

Associate Professor,
Dept. of ECE

Dr. Manjula A V

Associate Professor,
Dept. of ECE

ORGANIZING COMMITTEE

Faculty Members and Staff of
Department of ECE

FOR MORE DETAILS CONTACT

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Registration Link

Click here: <https://forms.gle/2ad6BTM27qDHoPh2A>

Registration Fee: Rs. 500/-

Account Number: 999999121211

Account Name: ATME COLLEGE OF ENGINEERING ECE DEPT

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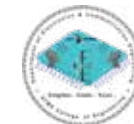
FIVE-DAY FDP

on

**“Real-Time Digital
Signal Processing &
Generative AI in Multimodal
Medical Imaging”**

Organized by

Department of Electronics & Communication Engineering



In association with
IEEE Mysuru Subsection

Date: 6th to 10th January 2026

VENUE:

ATME COLLEGE OF ENGINEERING, MYSURU
13th Kilometer, Mysore - Kanakapura - Bangalore Road,
Mysore - 570028

Phone: 0821- 2954081/11
Website: www.atme.edu.in

ABOUT ATMECE

ATME College of Engineering, Mysuru, established in 2010, is recognized by AICTE, New Delhi and affiliated with Visvesvaraya Technological University (VTU), Belagavi, Karnataka. The institution offers 10 undergraduate and 2 postgraduate programs across multiple engineering disciplines. All the eligible undergraduate programs are accredited by the National Board of Accreditation (NBA). ATMECE is recognized as one of the Best Emerging and Most Promising Private Engineering Colleges in Karnataka, with a strong focus on quality education, research, and industry-oriented learning. ATMECE has been honored as "The Best Emerging Private Engineering College in Karnataka" along with "Most Promising Upcoming Private Engineering College in Karnataka" for two consecutive years. It also holds QS I-Gauge Gold Ranking status. ATMECE is NACC accredited with an A+ grade and is one among seven engineering colleges in Karnataka to achieve this rating during its first cycle. Furthermore, ATMECE is NABL Accredited (National Accreditation Board for Testing and Calibration Laboratories) all departments at the institute have established recognized research centers by VTU to pursue Msc. Engg. and Ph.D. The institute has secured over Rs.5 crores in external funding for various research & consultancy projects over the past five years.

About the Department of ECE

The Department of Electronics and Communication Engineering was established in 2010 and expanded its intake from 60 to 120 in 2012. The department is supported by well-qualified and experienced faculty and technically skilled staff, with state-of-the-art laboratories to meet contemporary academic and industry requirements. The department actively promotes research through the ECE Innovative Research Club (EC-IRC), focusing on areas such as Wireless Communication, Image Processing, Computer Networks, Control Systems, VLSI Design, and Embedded Systems. Regular workshops, seminars, industrial visits, and internship programs are organized in collaboration with industries and professional bodies to enhance students' technical competencies.

RESOURCE PERSONS / EXPERTS



Dr. Shreekanth T
Project Manager

Automotive L&T Technology Services, Mysuru



Mr. Murali M. C
Project Lead

L&T Technology Services, Mysuru



Mr. Devi Kumar
Project Manager

L&T Technology Services, Mysuru



Dr. Uma Devi V
Professor

Department of CSE, BMSCE, Bengaluru



Dr. P. M. Shivamurthy
Data Scientist, ICell.Ai

ABOUT THE FDP

The FDP on Real-Time Digital Signal Processing and Generative AI in Multimodal Medical Imaging is planned to give VTU and other faculty members a comprehensive understanding of advanced DSP and AI concepts with applications in healthcare, aligning with curriculum requirements and supporting teaching, research and interdisciplinary work.

OBJECTIVES OF FDP

- Enhance understanding of real-time DSP concepts and applications.
- Introduce generative AI techniques for multimodal medical imaging.
- Provide hands-on exposure to DSP tools, algorithms and hardware.
- Familiarise the participants with digital pathology, CT scanning and multimodal Gen AI transformer modelling

OUTCOMES OF FDP

- Strong conceptual foundation in RT-DSP and AI-based medical image processing.
- Ability to implement DSP algorithms on real-time platforms.
- Understanding of GANs, diffusion models and VAEs in diagnostics.

CONTENTS OF FDP

- Basics of real-time DSP and medical imaging modalities
- Generative AI fundamentals for imaging (GANs, VAEs, diffusion models)
- AI-based image enhancement, segmentation and classification
- Hands-on sessions using DSP and AI tools on real-time/embedded platforms
- Case studies and research directions in health-care imaging.

WHO CAN ATTEND?

Faculty members of AICTE approved institutions, universities, research scholars, PG students, and industry participants interested in DSP, AI and medical imaging.