About the Organization:

Dr. Ambedkar Institute of Technology (Dr. AIT) was established in the year 1980 by Panchajanya Vidyapeeta Welfare Trust (PVPWT) Bangalore. PVPWT is founded by Late Sri. M. H. Jayaprakash Narayan. The Institution was started with three AICTE approved undergraduate (UG) programmes in Departments of Civil Engineering, Mechanical Engineering and Electrical and Electronics Engineering (EEE). Later UG programmes in Electronics and Communication Engineering, Industrial Engineering and Management, Instrumentation Technology, Computer Science and Engineering, Telecommunication Engineering, Information Science and Engineering and Medical Electronics, were also inducted. In addition, the institution currently also holds 14 research centres recognized by Visvesvaraya Technological University (VTU), Belagavi. The college has grown manifold with a total student intake of 1507 pursuing courses in ten undergraduate, ten postgraduate programmes (PG) of engineering including MBA, MCA and MSc (Engg.) by research/Doctoral Programmes. The Institution is aided by Government of Karnataka, approved by All India Council for Technical Education (AICTE), New Delhi and is affiliated to VTU, Belagavi. Most of the courses are accredited by National Board of Accreditation (NBA) and institution is accredited by National Assessment and Accreditation Council (NAAC) with 'A+' Grade. The college was granted with Autonomous Status by UGC during 2007 and the college implemented the same during 2010-11 academic year.

About the Department:

The Department of Electronics and Comm. Engg. came into grant-in-aid of Government of Karnataka in 1992. The UG course has been started in the year 1982 with an intake of 60 and presently UG Program intake is 180. The PG course M.Tech in VLSI Design and Embedded Systems was started in 2003-2004 with an intake of 18. Staffs are highly qualified and also the members of prestigious professional bodies like IEEE, ISTE, SSI and CSI. IEEE student chapter has been setup. Students have participated and won prizes in intercollegiate technical activities

Course Objectives

This program is designed to empower educators by providing both foundational knowledge and hands-on experience in the emerging fields of eAcoustics and machine learning. It equips faculty with the skills needed to effectively integrate these advanced technologies into academic curricula and research initiatives. Through practical sessions and case studies, participants will explore real-world applications across diverse sectors such as healthcare, security, and environmental monitoring—demonstrating the transformative impact of eAcoustics and ML in solving contemporary challenges.

Learning (Course) Outcome:

Participants of this program will gain in-depth knowledge of eAcoustics and machine learning, along with practical skills in acoustic signal processing using ML techniques. The training emphasizes real-world problem-solving, research advancement, and industry relevance, enabling faculty to integrate these technologies into their curriculum and research. By fostering cross-disciplinary collaboration among acoustics, signal processing, and machine learning, the program aims to drive innovation and open new avenues for academic and industrial impact.

Course Contents:

- ❖ **Introduction to eAcoustics and Machine Learning**
- ❖ **Signal Processing Techniques for Acoustic Data**
- ❖ **ML Models for Acoustic Applications**
- ❖ **Hands-on Implementation with Tools and Frameworks**
- ❖ **Applications in Real-world Domains**

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Aided by Government of Karnataka, Accredited by NAAC 'A+' and Affiliated to VTU, Belagavi BDA Outer Ring Road, Mallathalli,Bengaluru-56

AICTE
Training & Learning Academy (ATAL)
Sponsored

A 6 days online
Faculty Development Program (FDP) on

"Exploring the Synergy between eAcoustics and Machine Learning for Tomorrow's Technologies"

From 15-12-2025 to 20-12-2025

Organized by
Department of Electronics and Communication Engineering

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About the AICTE ATAL Academy
AICTE Training And Learning (ATAL) Academy is an initiative of the Ministry of Human Resource Development, Govt. of India for imparting quality technical education in the areas of recent technological advances throughout the country. For details of the academy, please log on to ATAL website: https://www.aicte-india.org/atal

Who can Attend?
Faculty of academic institutions, research scholars, and industry Professionals.

Participation Certificate
E-certificate will be issued by AICTE Training and Learning (ATAL) Academy to all those participants who have attended the program with a minimum 80% attendance, provided feedback on all the sessions and scored a minimum of 60% marks in the online objective test conducted at the end of the FDP by the Convenor of the program.

Registration Fees: Free
Min/Max. No. of Participants: 30/50 Nos.

Important Dates
Submission of application: 16.-11-2025
Intimation of Selection: 01-12-2025
Confirmation by participants: 11-12-2025

Session Speakers:

- **Dr. Udipi Cholayya Niranjan,** Adjunct Professor, Director Research and Training, Manipal Dot Net Pvt Ltd.
- **Dr. Steven Fernandes,** Assistant Professor, Computer Science, Creighton University, Omaha, Nebraska, United States
- **Dr. Usha Desai,** Professor and Dean(R&D), SEA College of Engineering And Technology
- **Dr. Ajith B S,** Director & Managing Partner, Rachit Sahyadri Tech LLP, Mangalore
- **Dr. T Kishore Kumar,** Professor, Department of Electronics and Communication Engineering, NIT, Warangal.
- **Dr. Ganesh R Naik,** Senior Academic Torrens University; Researcher Flinders University
- **Dr. Akash Saxena,** Professor, School of Engg. & Technology, Central University of Haryana, Mahendergarh.
- **Dr. Ravichander Janapati,** Professor(Assoc. Dean),Electronics & Communication Engineering, SR University, Warangal, Telangana
- **Dr. Sanjeev Gurugopinath,** Director, MMRFIC Tech. Pvt. Ltd., Bengaluru
- **Dr. Vijendra V,** SoC Verification Engineer, Intel Microelectronics SdnBdh, Malaysia
- **Vasanth D N,** Software Architect, Alstom Bengaluru
- **Mr.Chandra C,** Principal Cloud Engineer, Fidelity Investments,Bengaluru

How to apply?
Participants are required to Register at ATAL website: https://atalacademy.aicte-india.org/signup
Select FDP **"Exploring the Synergy between eAcoustics and Machine Learning for Tomorrow's Technologies"** conducted by Dept. of ECE, Dr. AIT, Bengaluru