



SIPNA COLLEGE OF ENGINEERING AND TECHNOLOGY,AMRAVATI

(An Autonomous Institute Affiliated to Sant Gadge Baba Amravati University)

Department of Electronics and Telecommunication Engineering



Application No-1775875503

Organises
Six Days AICTE ATAL Sponsored offline FDP
on

7th -12th December 2026

“Artificial Intelligence in Biomedical Engineering: Advancing Next-Generation Healthcare Systems”

FDP Schedule

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
9:30 – 12:00 Session 1 Dr. R. Murugan Associate Professor, National Institute of Technology Puducherry Experience:17 Years Topic:Diagnosis of medical images using machine learning and deep learning.	9:30 – 12:00 Session 3 Dr. N Jagan Mohan Specialist Data Scientist& Former DRDO Projectee LTIMindtree Experience:14 Years Topic:Federated Learning for Privacy-Preserving Biomedical Image Analysis.	9:30 – 12:00 Session 5 Dr.Tripti Goel Assistant Professor & Former NBRC Scientist NIT Silchar, Assam Experience:18 Years Topic : Generative adversarial networks for multi-modal image fusion for Alzheimer's disease diagnosis.	9:30 – 12:00 Session 7 Dr. A Surya Prakash Co-Founder & Director SpicArts.ai Experience:12 Years Topic : Voice AI in Healthcare: Transforming Patient Interaction and Clinical Work flow.	9:00 – 1:00 Industrial visit Rainbow Institute of Medical Sciences Diplomatic Zone, Besides Hotel Neelam, Opp. Empire Mall, Badnera Road, Amravati- 444605 Industry Type: Hospital Area of specification : • Cardiology (Heart care & interventions) • Neurology • Oncology (Cancer diagnosis & treatment)	9:30 – 12:00 Session 10 Dr. Sikandar Adwani Executive Director & Senior Neuro Physician Radiant Superspeciality hospital Experience:16 Years Topic : AI, Neuro imaging, and Brain Signal Analysis in Alzheimer's and Schizophrenia: Engineering the Future of Brain Care.
12:00 – 1:00 Article Discussion Machine learning techniques for the schizophrenia diagnosis: a comprehensive review and future research directions Journal of Ambient Intelligence and Humanized Computing Year of Publication: 2023/5images using machine learning and deep learning.	12:00 – 1:00 Article Discussion DRFL: federated learning in diabetic retinopathy grading using fundus images IEEE Transactions on Parallel and Distributed Systems, Year of Publication: 2023/4/5	12:00 – 1:00 Article Discussion Ensemble deep learning for Alzheimer's disease characterization and estimation Nature Mental Health,Nature Publishing Group US Year of Publication: 2024/6	12:00 – 1:00 Article Discussion Bridging communication gaps: the role of voice-enabled AI in medicine Journal of Ambient Intelligence and Humanized Computing Year of Publication: June 2025		
1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch
2.00– 4.30 Session 2 Dr. R. Murugan Associate Professor National Institute of Technology, Puducherry Experience:17 Years step-by-step demonstration of medical image classification through Python programming.	2.00– 4.30 Session 4 Dr. N Jagan Mohan Specialist Data Scientist & Former DRDO Projectee LTIMindtree Experience:14 Years Generative AI for Biomedical Imaging: From Data Augmentation to Synthetic Medical Image Generation.	2.00– 4.30 Session 6 Dr.Tripti Goel Assistant Professor & Former NBRC Scientist NIT Silchar, Assam Experience:18 Years Topic : Role of Diffusion-Weighted Imaging & Susceptibility-Weighted Imaging in Predicting Hemorrhage Progression in Stroke Patients.	2.00– 4.30 Session 8 Dr. Rohit Mundhada Surgical oncologist Geetai Nursing Home Experience:10 Years Topic: Tech , Touch and Trust : Building holistic ecosystem in oncology through AI.	2.00– 4.30 Session 9 Dr. Rahul Sharma Assistant Professor LNM IIIT Jaipur &Research Associate at IIT Indore Experience:10 Years Topic : Outcome-Based Research Methodology and Academic Writing.	2:00 – 4:00 MCQ & Reflection Journal
4:30 – 5:30 Hands on training /Labs	4:30 – 5:30 Hands on training /Labs	4:30 – 5:30 Hands on training /Labs	4:30 – 5:30 Hands on training /Labs	4:30 – 5:30 Hands on training /Labs	4:00 – 5:00 Valedictory Session