

Institution	EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY				
Department	ELECTRONICS AND COMMUNICATION ENGINEERING				
Event Type / Theme Please Tick (v) appropriate	ClubActivities/IndustrialVisit/Guest Lecture/InvitedTalk/Workshop/FDP/Seminar / Webinar / Conference /Sports Event /NSS Activity / Cultural EventOthers(PleaseMention): Technical Talk				
Event Title	'AI in Satellite Communication'				
Date	25/10/2025		Time	10:00 AM	
Venue	Online				
Duration		From:	10:00 AM	To:	
Program Objective	➤ To introduce the role of Artificial Intelligence (AI) in enhancing the performance and efficiency of satellite communication systems. ➤ To explain how AI techniques such as Machine Learning (ML) and Deep Learning (DL) are applied for optimization, fault detection, and automation in satellite networks. ➤ To analyze AI-driven solutions for challenges like resource allocation, beamforming, and data routing in next-generation satellite communication systems. ➤ To discuss integration of AI with 5G/6G and IoT ecosystems, emphasizing the role of intelligent satellites in global connectivity and smart applications. ➤ To highlight advancements in autonomous satellite operations, including AI-based orbit control, attitude management, and predictive maintenance. ➤ To explore real-world case studies and research trends demonstrating AI implementation in satellite communication technologies. ➤ To encourage innovation and research, inspiring participants to contribute towards AI-enabled space communication and Earth observation systems.				
1. Enhanced Awareness: Participants gained a clear understanding of how AI techniques are applied in modern satellite communication systems. 2. Research Motivation: Students were inspired to pursue research in areas combining AI, space communication, and next-generation networks. 3. Practical Insights: The audience learned about real-world applications and ongoing developments in AIbased satellite operations. 4. Skill Development: The session helped participants strengthen their conceptual knowledge of AI algorithms relevant to communication technologies.					

5. Interdisciplinary Learning: The event promoted collaboration between computer science and electronics/communication domains, fostering holistic technological learning.

1.Namesof the Resource Persons/Chief Guests /Guests of Honors/Other's Mention	Dr Rashmi MR
2.Designation/s	Associate Professor, Dept. of CSE
3.Company'sName/Associations	NIE,Mysore
Total Number of Participants	117
Total number of Participants in <i>Google</i> Meet	117
Total number of feedbacks received through Google forms from both Google meet and YouTube	-
Total Number of Views(FirstDay)in You Tube	NA
Photos	

	 
Video Recording Link/You Tube Link	NA