



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA



A Report on Industrial Visit to
"Aeronautical Development Establishment (ADE), Defence Research and
Development Organisation, Bengaluru"

Organised by
Department of Electronics & Communication Engineering
On 08.10.2026



Report Submitted by: Mr. G. Charan Kumar, Assistant Professor, Department of ECE

Mode of Conduct: Offline

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Introduction:

The Department of Electronics and Communication Engineering (ECE), MITS Deemed to be University, Madanapalle, organized an industrial visit to the Aeronautical Development Establishment (ADE), Defence Research and Development Organisation (DRDO), Bengaluru, on 08 October 2026. The visit aimed to provide students with practical exposure to defence research, aeronautical technologies, and the real-world applications of Electronics and Communication Engineering concepts in defence systems. 50 students from B.Tech and M.Tech participated in the visit, accompanied by faculty members from the Department of ECE.

Objectives of the Visit:

- To familiarize students with the research activities and technological developments undertaken at ADE, DRDO.
- To understand the practical applications of ECE subjects in defence and aeronautical systems.
- To gain exposure to control systems, microwave engineering, antenna technology, and communication systems used in defence applications.
- To bridge the gap between theoretical knowledge and practical industrial applications.
- To motivate students to pursue careers in research, development, and advanced engineering technologies.

Proceedings of the Visit:

The visit began with an introductory session in which the ADE team explained the establishment, objectives, and major research activities of the Aeronautical Development Establishment, DRDO, Bengaluru. Students were provided with an overview of ADE's contributions to aeronautical research and the development of advanced defence technologies.

Mr. Anil Kumar, Scientist 'E', ADE, DRDO, interacted with the students and explained how the concepts learned in various ECE subjects are implemented in real-world defence applications. He highlighted the importance of electronics, communication, signal processing, antenna systems, microwave engineering, and control systems in the design and operation of advanced defence platforms.

The students were also shown an introductory video about ADE and given demonstrations related to electronic and control technologies. The team explained how engineering principles are applied in systems associated with rockets, submarines, and other defence applications. Students also had the opportunity to observe an exhibition showcasing relevant technologies and gain insights into ongoing research and development activities.

The interactive session helped students understand the importance of interdisciplinary knowledge, innovation, precision, and practical problem-solving in defence research. The visit provided valuable exposure to the professional environment and technical expertise involved in developing indigenous defence technologies.

Faculty Members

The visit was coordinated by **Mr. G. Charan Kumar, Assistant Professor, Department of ECE**, who facilitated the organization and coordination of the industrial visit.

The following faculty members accompanied the students:

1. Mr. G. Charan Kumar – Assistant Professor, Department of ECE and Visit Coordinator.
2. Dr. Janmoni Borah – Assistant Professor, Department of ECE.
3. Dr. Smriti Borah – Assistant Professor, Department of ECE

Learning Outcomes:

After completing the industrial visit, students were able to:

- Explain the role and major activities of ADE, DRDO, Bengaluru.
- Identify the applications of ECE subjects in defence and aeronautical technologies.
- Relate theoretical concepts in antenna engineering, microwave engineering, communication systems, and control systems to practical applications.
- Appreciate the importance of research, innovation, and indigenous technological development in the defence sector.
- Recognize career and higher-study opportunities in defence research and advanced engineering fields.

Conclusion:

The industrial visit to ADE, DRDO, Bengaluru, on 08 October 2026 was an informative and valuable learning experience for the B.Tech and M.Tech students of the Department of Electronics and Communication Engineering, MITS Deemed to be University. The interaction with Mr. Anil Kumar, Scientist 'E', along with the demonstrations, introductory video, and exhibition, helped students gain a better understanding of the practical implementation of ECE concepts in defence technologies.

The visit successfully strengthened the connection between classroom learning and real-world engineering applications. The Department of ECE expresses its sincere gratitude to the Director and the ADE, DRDO team for permitting the visit, interacting with the students, and providing an enriching educational experience.

Vote of Thanks

On behalf of the Department of Electronics and Communication Engineering, we express our heartfelt gratitude to the Management of **MITS Deemed to be University** for their constant encouragement and support in organizing the Industrial Visit to ADE DRDO Bangalore for the B.Tech and MTECH ECE students on 08.10.2026

We sincerely thank **Dr. C. Yuvaraj (I/c), Vice Chancellor**, for his visionary leadership and continuous motivation in promoting industry-oriented learning experiences for students.

We extend our sincere gratitude to **Dr. P. Pradeep Kumar, Registrar**, for his administrative support and encouragement in facilitating academic and industrial activities.

We express our heartfelt thanks to **Dr. P. Dipankar Roy, Dean, School of Engineering**, for his valuable guidance and encouragement in enhancing practical learning through industrial exposure.

Our sincere appreciation goes to **Dr. P. Ramanathan, Principal**, for his unwavering support and for providing the opportunity to organize this educational visit.

We are deeply grateful to **Dr. Sanjay Kumar C. Gowre, Professor and Head, Department of ECE**, for his constant guidance, motivation, and support in making this industrial visit a meaningful and successful learning experience.

Finally, we appreciate the enthusiastic participation and disciplined conduct of the B.Tech and MTECH ECE students, whose active involvement contributed to the success of the industrial visit.

Newspaper Clips:

క్షేత్రస్థాయి సందర్శనలతోనే నైపుణ్యాల పెంపు

కురబలకోట, మధనపల్లె విద్యుత్ స్టాంట్లు: పెం గళురులోని డీఆర్డీఎస్ మిట్స్ డిప్యూటీ విశ్వవిద్యాయం ఈసారి విభాగం విద్యార్థులు శనివారం సందర్శించినట్లు వీసీ సి. యువరాజ్ తెలిపారు. ఈ సందర్శన వల్ల విద్యార్థులకు క్షేత్రస్థాయి సాంకేతికతల గురించి తెలుస్తుందన్నారు. రక్షణ రంగంలో వినియోగించే సాంకేతిక పరిజ్ఞానం, ఎలక్ట్రానిక్ కమ్యూనికేషన్ వ్యవస్థలు, రాడార్ టెక్నాలజీ, ఏరోస్పేస్ ఇంజనీరింగ్, కృత్రిమ మేధస్సు గురించి తెలుసుకున్నారు. విద్యార్థులతో పాటు ఈసారి విభాగం ఆసిస్టెంట్ ప్రొఫెసర్ జి.చరణ్మహారా, డాక్టర్ జన్నేనిబోరా, డాక్టర్ స్మితిబోరా పాల్గొన్నారు.

డీఆర్డీఎస్ కేంద్రాన్ని సందర్శించిన మిట్స్ విద్యార్థులు

రక్షణ రంగ సాంకేతికతపై అవగాహన ఉద్ద్యోగపథకాలపై జాతీయత వ్యవస్థాపకం

విశాఖ కేంద్రం వద్ద మిట్స్ యూనివర్సిటీ విద్యార్థులు మొదటిసారి విద్యుత్ స్టాంట్లు, డిఆర్డీఎస్ మిట్స్ డిప్యూటీ విశ్వవిద్యాయం ఈసారి విభాగం విద్యార్థులు శనివారం సందర్శించినట్లు వీసీ సి. యువరాజ్ తెలిపారు. ఈ సందర్శన వల్ల విద్యార్థులకు క్షేత్రస్థాయి సాంకేతికతల గురించి తెలుస్తుందన్నారు. రక్షణ రంగంలో వినియోగించే సాంకేతిక పరిజ్ఞానం, ఎలక్ట్రానిక్ కమ్యూనికేషన్ వ్యవస్థలు, రాడార్ టెక్నాలజీ, ఏరోస్పేస్ ఇంజనీరింగ్, కృత్రిమ మేధస్సు గురించి తెలుసుకున్నారు. విద్యార్థులతో పాటు ఈసారి విభాగం ఆసిస్టెంట్ ప్రొఫెసర్ జి.చరణ్మహారా, డాక్టర్ జన్నేనిబోరా, డాక్టర్ స్మితిబోరా పాల్గొన్నారు.

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Feedback Analysis:

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