

**SCHOOL OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
Report on Industrial visit
“Research Centre Imarat (RCI)”**

Date: 27th April 2022

Department of Mechanical Engineering arranged industrial visit for 3rd and 4th year students on 26th April 2022. The college buses started from the NNRG campus at 9:00AM in the morning and reached RCI by 10:15 AM.

Research Centre Imarat (RCI) is a premier laboratory of Dr APJ Abdul Kalam Missile Complex, DRDO spearheading R&D in a wide range of Avionics Systems for diversified defence and aerospace applications.

RCI is entrusted with the responsibility of carrying out research and development in the technologies of Control Engineering, Inertial Navigation, Imaging Infrared seekers, RF Seekers & Systems, On-board Computers and Mission Software. RCI has established state-of-the-art test facilities including Hardware-in-Loop Simulation, Environmental Test facilities and Electro-Magnetic Interference/Compatibility/Pulse (EMI/EMC/EMP) facilities and System Integration facilities supported by a strong Reliability and Quality Assurance team. Over the last three decades, RCI has pioneered the development of many advanced technologies and has grown into a major aerospace laboratory.

Mr. Umesh Agrval, scientist-H, RCI guided us in entire visit, he explained all the equipment working and its applications (We would like to thank Mr. L. Krishanarao, Group Director, RCI for considering our request for the industrial visit).

In the visit students have observed the testing actuators, design and development of smart guided weapons with precision strike capabilities, in avionics, particularly in Inertial Navigation, Imaging Infra-Red (IIR) and Radio Frequency (RF) Seekers & Systems, Sensors, Guidance & Control Systems, On-Board-Computers, Mission Software, Flight Instrumentation, Power Systems, Systems Integration, Flight hardware-in-Loop Simulation (HILS), Environmental and Electro-Magnetic Interference/ Compatibility (EMI/EMC/EMP/HERO) test facilities

After visit students taken a lunch at around 1.00 PM in RCI Canteen and at 2.30 pm the buses started from RCI and reached NNRG Campus at 04:00 PM.

Mr.P.Srinivas Assoc. Professor, Mechanical Engineering Department,

Mr.G.Gopi, Asst. Professor, Mechanical Engineering Department,

along with 28students have visited the industry.





HOD-ME