PITHAPUR RAJAH'S GOVT. COLLEGE (A), KAKINADA

DEPARTMENT OF PHYSICS & ELECTRONICS

CHANDRAYAN-3 LAUNCHING LIVE PROGRAMMEE DISPLAY

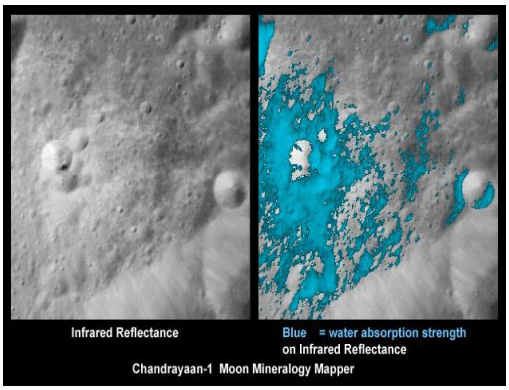
A student gathering is scheduled at 2:00 pm on 14 July 2023 at LCD HALL-2

Aim: To offer best wishes to ISRO Scientists and Chandrayaan-3 Mission. To Enhance scientific temper to students.

Topics Discussed before watching Chandrayaan Lunching are,

Chandrayaan-1 Mission:

It was the first Indian lunar probe under the Chandrayaan programme. It was launched by the Indian Space Research Organisation (ISRO) in October 2008, and operated until August 2009. The mission included a **lunar orbiter** and an impactor. India launched the spacecraft using a **PSLV-XL rocket** on 22 October 2008 from Satish Dhawan Space Centre, at Sriharikota, Andhra Pradesh. The vehicle was inserted into lunar orbit on 8 November 2008.



These images show a very young lunar crater on the side of the Moon that faces away from Earth, as viewed by Chandrayaan-1's NASA Moon Mineralogy Mapper equipment**.** Direct evidence of lunar water through Chandrayaan-1 .

Chandrayaan-2 Mission:

It is the second lunar exploration mission developed by the Indian Space Research Organisation (ISRO), after Chandrayaan-1. It consists of a **lunar orbiter**, **a lander**, and the ***Pragyan*** **rover**, all of which were developed in India. The main scientific objective is to map and study the variations in lunar surface composition, as well as the location and abundance of lunar water.

The craft reached the Moon's orbit on 20 August 2019 and began orbital positioning manoeuvres for the landing of the *Vikram* lander. The lander and the rover were scheduled to land on the

near side of the Moon, in the south polar region at a latitude of about 70° south on 6 September 2019.

However, the lander crashed when it deviated from its intended trajectory while attempting to land on 6 September 2019. According to a failure analysis report submitted to ISRO, the crash was caused by a software glitch.

Chandrayaan-3:

ISRO is re-attempting a landing with Chandrayaan-3 which was launched on 14 July 2023 and is expected to land near the lunar south pole region on 23 August 2023.