Moon ship – 1

Design and justification

Moonship- 1 will be the beta test module for future unmanned missions to the earth. This module will be developed with inspiration from apollo Lunar Module. This module will be developed into a transportation module for moon missions in the future after first flight.

The moonship will be designed and build based on the data and outcomes of apollo crewed missions.

Moon doesn’t have an atmosphere. So, when the moonship will reach the moon surface, rockets propulsion system will active, and it will slow down the space craft.

Moonship must have two separate stages for landing and relaunching.

Moonship will include a camera system to observe the environment throughout the process of landing and relaunching.

Moonship will include onboard computer system that can perform most of the manoeuvres automatically as pre-programmed.

But the ground command unit will carefully observe the performances and will conduct a manual landing/relaunch if necessary.

Moon ship will have a solar energy unit to cover its energy needs.

One of the main factors we must consider for the design is the fuel for the landing and relaunch and coming back to earth.

To reduce the fuel energy moonship demo version will only use as a carriage ship for lunar-I rover.

Only mission this demo version will demonstrate is land on the moon, deploy the rover, relaunch from the moon and return earth atmosphere.