Time	Monday	Tuesday	Wednesday	Thursday	Friday
10:00-12:00	Lecture 1: The space environment/habitat and its influence on spacecraft design. Space vacuum, temperature. Effects of weightlessness on materials and people. Fluids and flames in space. Radiation in space. Sources (solar wind and cosmic rays). Space Weather and Solar Storms. UV irradiation. Units of radiation (Gray, Sievert), etc	spacecraft for safe operation of equipment and living conditions for humans. Spacecraft power needs and supply. Solar cells, fuel cells and RTGs.	Radiation shielding. The Beer- Lambert law and absorption coefficients. Effective shielding materials. Impacts. The risk from micrometeorites and space junk. Examples of impacts	Space architecture. Space	Exam
12:00-13:00 13:00-15:00		pm lab tours	Lunch Lecture 5: Living in space. Humans in space - health issues. Effects of prolonged weightlessness and radiation. Mental Health. Space medicine. Human space exploration. Travelling to the Moon and Mars.	and nutrition for astronauts. Growing your own food in space habitats. Hydroponics. Space farming on the moon	