



1. Working of Telescopes

- What is a Telescope
- Functions
- Components
- Different types of Telescopes



2. Astronomical Coordinate System

- Equatorial
- Altitude-Azimuth
- Ecliptic
- Galactic
- Super Galactic

3. Stellar properties

- Spectra
- Size
- Temperature
- Luminosity

4. Life cycle of Stars

- Birth of a star
- Initiation of Fusion reaction
- Main Sequence Phase
- Red Giant Phase
- Death of a star

5. Case studies

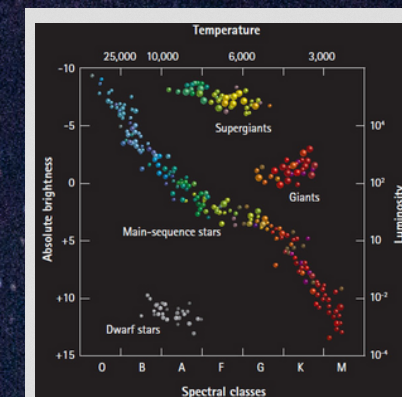
Kepler 452b

Betelguese

8. Tour to Observatory

Working and handling of Telescope

7. HR Diagrams



6. Talks

- Space Probes
- Quantum Gravity
- Gravitational Lensing
- Terraforming
- Fermi Paradox
- Astronomical Distances
- Quantum Tunneling and The Sun
- Olber's Paradox
- Formation and Evolution Of Galaxies
- Age Of Universe