

SYLLABUS :-

The astronomical coordinate system -units of measure in astronomy -observing instruments. Elements of radiative processes and radiative transfer. Elements of dynamical processes - kinetic theory - the fluid equations. The sun and our planetary system - comets. Stellar astronomy -classification of stars - life cycle of a star - stellar physics. Galactic astronomy - our galaxy - external galaxies - classification of galaxies - the interstellar medium - galactic dynamics - the dark matter problem. Cosmology - the standard model - the microwave background - nucleosynthesis - structure formation - galaxy formation - galaxy clusters - the intergalactic medium.