



Fergusson College Observatory Department of Physics



The Fergusson college Observatory is a unique project which proposes to combine a highly configurable robotic telescope array with an innovative sensor array network from various other observatories with our own telescope.

The observatory which is presently in the making, will consist of a robotic Dome and 9.25 inch go to telescope facility with photometer, CCD and a solar telescope. It will provide a unique opportunity for many college students to perform observations - manually as well as remotely - on their own. This will stimulate interest in Physics, Electronics and Astronomy/Astrophysics.

The observatory will be a platform that would also allow students to carry out research in various disciplines (Astronomy, Electronics and Instrumentation, Geology, Computer Sci. etc.) using the setup for remote observations. Further, the observatory

will also let students and teachers use this telescope for live observing sessions as well as scheduled observations. Using the facility, observations in the following areas can be carried out:

1. Variable star observations, DSLR photometry of Variables.
*Meteor observations - Our students are regular in Meteor shower observations and contribute regularly to the International Meteor Organization.
2. Asteroid and Comets observations – Student have taken part in International Asteroid hunt programs and discovered Asteroids.
3. Eclipses, Transits and Occultation's – public programs of Total/Annular Solar Eclipses, Venus Transits have been carried out.
4. Solar studies: India is blessed with many hours of sunshine throughout the year many students can be involved in the activity during college hours itself (Sunshine hours).
5. Till date Fergusson College has already produced more than 60 professional Astronomers working at various institutions in India and abroad. The Fergusson College observatory will be a unique facility in observational Astronomy especially at a College level in India.