



Students of TE (ELECTRONICS) visited to GMRT (Gaint Metrewave Radio Telescope), Narayan Gaon on 25/01/2019. Total 29 students with 2 staff members visited industry

GMRT is an array of thirty fully steerable parabolic radio telescopes of 45 metre diameter, observing at metre wavelengths. It is operated by the National Centre for Radio Astrophysics, a part of the Tata Institute of Fundamental Research, Mumbai.

The digital backend section deals with the digital conversion, manipulation and storage of the analog signals coming from the baseband system. The signal from the antenna after going through the baseband system is analog in form. This signal needs to be converted into digital form, so that it could easily be worked upon using **digital signal processing**. The signal after being converted into digital form is processed through FX Correlator to generate cross amplitude and phase information among the 30 antennas to synthesise the Stokes Parameters. The output from the correlator (FFT subsystem) is given in parallel to the Array Combiner for generating the Incoherent Array (IA) and Phased Array (PA) outputs for pulsar observations.





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