

The Department of Physics & Electronics GC (A), Rajahmundry



A brief Report on Guest Lecture by

Dr. Manjiri Pande, Senior scientist, BARC, Mumbai

Conducted on 23rd Nov 2023



- Date** : 23rd Nov 2023
- Name of the Event** : Guest Lecture
- Topic** : **Topic1:**Nuclear Energy for future Applications & Particle Accelerators
Topic2:Opportunities at BARC
- Name of the Resource Person** : Dr.Manjiri Pande, Senior Scientist, BARC, Mumbai
- No of participants** : 62
- Objective** : 1. To make the students aware of research going on at BARC
2. To aware the students about Career opportunities at BARC
- Procedure** : A circular/whats app message was sent to all PG and UG students to attend the lecture. A flyer was also released
- Summary of the event** : Dr. Manjeeri Pande had explained about the provinces of Uranium in India which presently has to be imported from other countries. The country has only Sodium. She explained the present Nuclear sources available and the technology behind their development. Also she explained about how to control nuclear hazards etc.
- Madam encouraged both ug and pg final year students to apply for entrance exams to enter into BARC as a Scientist and other positions like technical assistant ect. Basically 3 layers of intake are there i.e. through OCES Courses offered at BARC applications of radio frequency and microwave.
- Also she explained a very interesting topic related to Latest accelerators:Live example through

PPT (27 km underground Electron accelerators). Their applications in daily life are used in CT Scan ,CRT television is a simple form of accelerators etc. Explained how electromagnetic fields role the accelerators -Electric field for acceleration and magnetic field for beam control. Explained various R &D projects under BRNS



