FIELD TRIP

Every year the department staff and students visit CSIR Institutes on

CSIR Open Day and visit Scientific Institutes on

National Science Day(NGRI,NRSC, IMD,

Birla Science Centre, Observatory Centre,

Survey of India.

On the eve of National Science Day the department conducts Science Exhibition every year.

DETAILS OF FIELD TRIPS ORGANISED(2016-20)	
2018-19	PAGE NO-(2-18)
2019-20	PAGE NO-(19-28)

REPORT OF NATIONAL REMOTE SENSING FIELD TRIP

We the Department of Physics of GDC (W) Begumpet, consisting of two faculty members led a group of 29 students to a field trip to National Remote Sensing Centre (NRSC) at Jeedimetla, Hyderabad on 05th September 2018. We reached the centre at 9.30 AM. The objective of the trip was to expose/introduce/provide first hand feel to the students on the recent advancements in the field of Remote Sensing technology. In the Centre three scientists explained the concept of satellite technology and its application for the development of mankind in a very effective manner through PPT slides. After presentation and video of satellite launching, photos and specimen of rockets were exhibited and explained in an interactive manner. The students were able to distinguish the type of sensors (passive and GSLV & PSLV, different photos taken by the active) satellite of KailashManasSarovar, Rakshasthal, The images were obtained in continuous and discrete by different colours like Red (for vegetation), blue (water) by topographical which are segregated by Dept. of Space. There are five centres are working under ISRO for launching a satellite namely (NMRF – Sensor design & making) Remote sensing research (SAC) at Ahmedabad, VSSC (Trivandrum) LPSC (Liquid Profile Fuel required) SHAR (Integrated launch) were explained elaborately by senior scientists. For one satellite launch planning of 10 years and 70 days countdown is required. At present 104 satellites are launched and the target for 2020 is 200. Satellites promote applications for taking information of irrigation, weather forecasting, forestry, agriculture, drinking water sources, weather forecasting, and Geo Sciences. The picture resolutions are of 4 types (spectral, spacial, temporal and radiometric). After exhibition session we allhad taken our lunch and reached our destination. This way the trip was very



informative, educative and enlightening one for our college students





ACTIVITY REPORT OF FIELD TRIP TO BIRLA SCIENCE PLANETORIUM

We the Department of Physical Sciences (Physics, Mathematics and Statistics) of GDC (W) Begumpet consisting of faculty members (Dr.Ch.KanchanaLatha,) led a group of 50 students to a field trip to **BIRLA SCIENCE PLANETORIUM**

ON 4-2-2019. We reached the <u>**PLANETORIUM**</u> at 9.30 AM. The objective of the trip was to expose/introduce/provide first hand feel to the students on the recent advancements made in the field of CONCEPTS IN BASIC SCIENCES

Overall the students had first hand, knowledgeable and memorable experience on the working of **PLANETORIUM** and its contribution to the nation in the field of ADVANCES IN SCIENCE which is of immense value.



FIELD TRIP @BIRLA SCIENCE PLANETORIUM

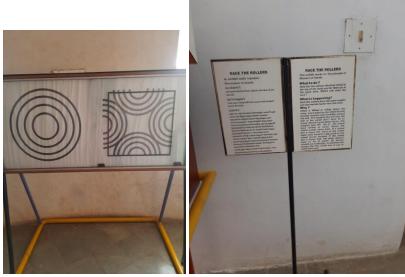


















ACTIVITY REPORT

We the Department of Physical Sciences (Physics,) of GDC (W) Begumpet consisting of faculty members and students led a group of 50 students to a field trip to Indian Meteorological Department (IMD) and Begumpet Airport on 30thDecember 2019. We reached the IMD at 9.30 AM. The objective of the trip was to expose/introduce/provide first hand feel to the students on the recent advancements made in the field of Weather forecast techniques for determining the surface weather temperature, rainfall, clouds, wind speed, wind direction, pressure and humidity. The parameters can be measured by using different types of thermometers (dry bulb, wet bulb and maximum and minimum thermometers).

For determining rainfall three types of rain gauges are used (ordinary, self –recording and automatic). For determining moisture (evaporation tank with pen phytograph) is used. For determining amount of water vapour (Hygro graph), temperature (thermo graph) and through satellite observations using DoplerRADAR.

The above parameters were explained in detail by three IMD Scientstsand its application for the development of mankind in a very effective manner through PPT slides. After presentation and live demonstration of Dopler RADAR the Scientists had an interaction with students.

Overall the students had first hand, knowledgeable and memorable experience on the working of IMD and its contribution to the nation in the field of weather forecast which is of immense value.





FIELD TRIP TO NGRI ON 17-1-20

ACTIVITY REPORT

We the Department of Physical Sciences of GDC (W) Begumpet consisting of faculty members led a group of 50 students to a field trip to NGRI ON 17-1-20.

We reached the NGRI at 9.30 AM. The objective of the trip was to expose/introduce/provide first hand feel to the students on the recent advancements made in the field of SEISMOGRAPH AND SURFACE WATER TECHNOLOGY

For determining SEISMOGRAPH AND SURFACE WATER TECHNOLOGY The above parameters were explained in detail by three IMD Scientstsand its application for the development of mankind in a very effective manner through PPT slides. After presentation and live demonstration of SURFACE WATER TECHNOLOGY the Scientists had an interaction with students.

Overall the students had first hand, knowledgeable and memorable experience on the working of **NGRI** and its contribution to the nation in the field of weather forecast which is of immense value.

अनसधान आंद्योगिक अनसं SEA GE



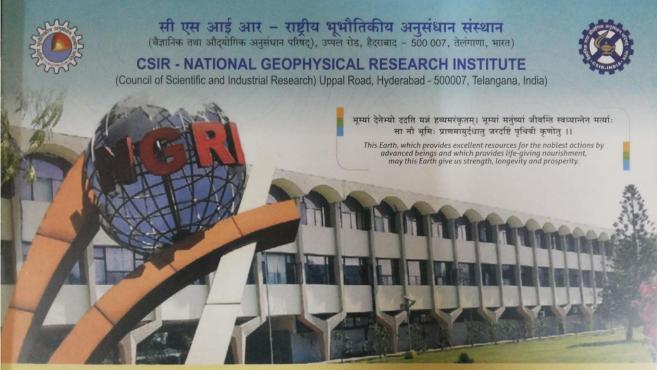




EARTH EARTHQUAKES ESSENTIALS OF SAFETY



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH New Delhi, India



Established in the year 1961, the CSIR-National Geophysical Research Institute (NGRI), Hyderabad is a premier earth science research institute of the Council of Scientific & Industrial Research (CSIR) under the Ministry of Science & Technology, Government of India. As per its mandate, the Institute has been carrying out innovative basic and applied research encompassing the broad disciplines of Geology, Geophysics and Geochemistry. Its multidisciplinary earth science research programs are in tune with the mission of the CSIR and frontier global challenges.

FIELD TRIP TO OU OBSERVATORY @ MANCHALA (M) JAAPALA ON 20-2-2020.

ACTIVITY REPORT

We the Department of Physical Sciences (Physics, Mathematics and Statistics) of GDC (W) Begumpet consisting of faculty members led a group of 50 students to a field trip to ASTRONOMICAL OBSERVATORY CENTRE @ MANCHALA. We reached the ASTRONOMICAL OBSERVATORY CENTRE @ MANCHALA. at 9.30 AM. The objective of the trip was to expose/introduce/provide first hand feel to the students on the recent advancements made in the field of ASTRONOMY.

For determining BASICS IN SCIENCES SUCH AS MOMENT OF INERTIA, HOLOGRAPHY, ILLUSION AND DIFFERENT HOROSCOPIC SIGNS AND TERRESTRIAL TELESCOPE.

Overall the students had first hand, knowledgeable and memorable experience on the working of ASTRONOMICAL OBSERVATORY CENTRE @ MANCHALA. and its contribution to the nation in the field of astronomy which is of immense value.













A visit to survey of India on NSD-3-2-2020

