

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet.

Affiliated to Bharathiar University

Accredited at A+ Grade by NAAC (Fourth Cycle)

An ISO 9001:2015 Certified Institution

Udumalpet, Tamilnadu.

DEPARTMENT OF PHYSICS

**Industrial Visit to Radio Astronomy Centre, Ooty organised under DBT Star
College Scheme**

2019-2020		
Date	Place of Visit	No. of Beneficiaries
06.02.2020	Radio Astronomy Centre, Ooty	51 B.Sc Physics Students

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet.

Department Of Physics

Industrial Visit to Radio Astronomy Centre, Ooty

Radio Astronomy Centre
TATA INSTITUTE OF FUNDAMENTAL RESEARCH
Post Box 8, Udumalpet (Ooty) - 643 001, TAMILNADU, INDIA
Telephone: 0423 - 2244880/888 Fax : 0423 - 2244900
Email: userid@mailhost.tifr.res.in

NCRA • TIFR

Ref No : RAC/IV/2020 Dated: 29-01-2020

To
The Principal i/c,
Sri GVG Visalakshi
College for Women (Autonomous),
Udumalpet - 642 128.

Sub : Free Visit to Radio Astronomy Centre - Permission granted
Ref : Your Letter Ref-No. Email dt. 28-01-2020

Dear Sir/Madam,

With reference to your above letter, we are pleased to accord our permission for visiting this Centre, as detailed below.

No. of Persons Visiting : 50 students + 5 staff members.

Date & Time of Visit : 6th February 2020, Time: 10:00 hrs to 16:00 hrs

Please see the information below :

(1) The Radio Astronomy Centre (RAC) is purely a research organization engaged in research & training Ph.D students in the field of Radio Astrophysics. It operates the Ooty Radio Telescope (ORT), which is an equatorial mounted cylindrical parabolic of size 530 m long and 30 m wide. The visiting students will be shown a video show on the radio telescope and basics of radio astronomy. They can also visit the telescope site and watch the rotation of the telescope. If you are bringing students for any industrial visit, you may please note that RAC is not a factory. No transport or accommodation will be provided by this centre for the above visit. This visit is offered absolutely **FREE of Cost**.

(2) Saturdays and Sundays are holidays for the centre & hence if you plan to visit this centre on Saturdays, Sundays and Govt. holidays, you will be able to watch only the video show.

(3) To reach the Centre, you have to follow Melcowhatty village route (via) Ooty Bus Stand - Boat House - J.S.S. Public School - Theetukkal. Bring your vehicle up to our premises in order to avoid ~1 km walk. Please carry the permission letter, each visitor should have a valid Identity card issued by the College/Organization authorities. You are required to maintain strict silence and discipline in the campus.

Visited On: 06/02/2020
At: 11:30am

RADIO ASTRONOMY CENTRE
Tata Institute of Fundamental Research
P. O. Box 8, Udumalpet 643 001,

With regards,
D. Ravikumar SO (D)RAC

Reception :-

For necessary follow-up. Email: racvisit@gmail.com

Operated by : National Centre for Radio Astrophysics, TIFR, Post Bag 3, Ganeshkind, Pune 411007, India.

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Department Of Physics

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06.02.2020

Industrial Visit


The Department of Physics of Sri GVG Visalakshi College for Women organized a one day industrial visit to Radio Astronomy Centre at Ooty, on 6th February 2020. The visit was organised with prior permission from Joint Director of Collegiate Education and Guidance from Principal In-charge Mrs. S. Kalaiselvi, 51 students from UG physics along with 2 faculty members participated in the industrial visit.

Radio telescope is located in Muthosai near Ooty. It is part of the National Centre for Radio Astrophysics of the well known Tata Institute of Fundamental Research (TIFR) which is funded by the Government of India through Department of Atomic energy. The industrial visit to Radio Astronomy centre provided a rich understanding of communication takes place in RAC and the use of Ooty Radio telescope.

Mr. Premkumar, Research scholar has explained the working of each and every component present in the centre. Students gained information about radio recombination lines, stainless steel wires, parabolic frames, antenna receiver's radio galaxies, quasars, supernovae, pulsars the interstellar and interplanetary media, various phenomena occurring in our solar system and in other celestial bodies. He explained how to track celestial objects for about 10 hours continuously from their rising in east to their setting in the west by simply rotating the antenna mechanically along its long axis. Students were given briefing on how communication takes place at the centre.

One the whole the Industrial visit was very useful for the students to enrich their knowledge in the field of Astrophysics.

B.A.
- DBT - Coordinator -



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feedback about IV
[1st B.Sc physics]

The journey to ooty was awesome. We enjoyed a lot and gathered information about working and application of radio telescope. The place where the radio astronomy centre situated was marvellous. It stimulated us to know more about astrophysics.

The botanical garden looked very beautiful and we were attracted by the different colours of flowers.

By

1st B.Sc physics
Students --

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