

Kakinada,
24/10/2024

To
The principal,
ASDGDC(W)(A),
Kakinada.

Subject: Request for permission to conduct educational tour

Respected Madam,

The Department of Chemistry in association with Physics & Mathematics is planning to organize an educational tour to the III MPC on 26/10/2024 Saturday. The educational tour provides academic enhancement, Skill development, applications of theoretical knowledge to the students.

Tour details:

Place: Visakhapatnam

Date:26/10/2024

Duration: 1 Day

Transportation: By Bus

No of Students:41

Staff members:4

Places planned to visit in educational trip:


- 1) Doppler Weather Radar station
- 2) Cyclone warning center
- 3) VMRDA Visakha aircraft Museum
- 4) INS Kurusura Submarine Museum
- 5) KailasGiri
- 6) Rushikonda
- 7) Metrology Lab, Oceanography Lab, Nuclear Chemistry in association with Physics Lab in Andra University
- 8) CMS Laboratories India Pvt Ltd

The educational tour will be supervised by faculty of Chemistry in association with Physics & Mathematics. We are giving assurance to follow the student's safety and Security, follows the college policies and guidelines. We will collect student indemnity letters.

We kindly request your permission to proceed with educational tour. This will help the students academic and personal growth.

Thanking you to considering our request

Yours faithfully,



Signature of Incharge of Chemistry

ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN (A) ,KAKINADA

DEPARTMENT OF CHEMISTRY



REPORT ON
EDUCATIONAL TOUR TO VISAKHAPATNAM
26/10/2024 SATURDAY

REPORT ON EDUCATIONAL TOUR

DATE: 26/10/2024, SATURDAY

INSTITUTION: ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), KAKINADA

PLACES VISITED: 1) Doppler weather RADAR station,
2) Kailasgiri
3) Rushikonda
4) Andra University Chemistry in association with Physics Labs—
Nuclear Chemistry in association with Physics Lab,
NMR Lab, Advanced analytical-Lab (AAL)
5) INS KURUSURA Submarine Museum
6) VMRDA Visakha Aircraft Museum

The Department of Chemistry in association with Physics of ASD Government Degree college for Women (A), Kakinada successfully organized educational tour to Visakhapatnam on

26/10/2024 with 46 students of III MPC, MPCS, MSCS and 4 Faculty members of Department of Chemistry in association with Physics & Mathematics. The main intent of educational tour is

- 1) Practical applications of Theoretical Knowledge and concepts
- 2) Enhanced learning and Retention
- 3) Career Guidance and Exploration
- 4) Exposure to new technologies and innovations
- 5) Opportunities for research and innovation

Details of Visit:

The Tour starts with visit of Doppler Radar station, Kailasgiri,

1) **Doppler weather RADAR Station:** The main objective is to understand the principles and applications of Doppler weather RADAR Technology, Role of RADAR in Meteorology, Disaster management, Storm tracking and warning system.

2) **Kailasgiri:** The main purpose of visit is to understand the principle of optics and light scattering through observation of the Panoramic view, To analyse the Structural integrity and architecture of Kailasagiri Temple and to study the acoustic properties of temple design.

3) **Rishikonda Beach:** The main objective is to observe the Wave dynamics, Coastal geomorphology and investigate the role of Wind, Atmospheric pressure

On Coastal Phenomena, Ocean – Atmosphere interactions and RIP Currents.

4) **Andra University:** The Educational tour in Andra university starts with labs visit in Nuclear Chemistry in association with Physics lab, Modern Chemistry in association with Physics Lab, NMR Lab and AI Lab

- **Nuclear Chemistry in association with Physics Lab:** The Academic objective is to understand Nuclear Chemistry in association with Physics , Familiarize with Nuclear instruments and equipment's like Accelerators, Spectrometers, Explanation of Nuclear energy Production, applications and waste management.

The HOD of Nuclear Chemistry in association with Physics lab Dr P.V Lakshmi Narayana and staff interacted with students' staff and explains the research opportunities in Nuclear Chemistry in association with Physics .

- **NMR Lab:** With the education tour, the students understand the principles, applications of NMR Spectroscopy, familiarized with NMR Instrumentation and techniques. The staff and HOD of Chemistry in association with Physics

S. Srinivasarao interacted with students and explains about research in NMR spectroscopy and analysis and Interpretation of NMR Spectra.

- **Advanced Analytical Lab(AAL):** By visiting the advanced Analytical Instruments Lab, Students understand principles and applications of various analytical instruments like Fourier transform infrared spectrometers, Differential scanning calorimetry (DSC), Thermogravimetric Analyzer (TGA), Differential thermal Analyzer (DTA) and familiarized with advanced instrumentation techniques, Data analysis and interpretation methods.

The Director M. Ramakrishna Nancharao of Analytical instruments lab interacted with students and explained all analytical instrumentation and data analysis methods. He motivates the students to do research in Chemistry in association with Physics .

5) **INS KURUSURA Submarine Museum:** The students observed and understand submarine Chemistry in association with Physics and technology, Naval architecture, Design and applications of Chemistry in association with Physics in submarine applications.

6) **VMRDA- Visakha aircraft Museum:** The main specific Chemistry in association with Physics Objective is to understand aerodynamics and flight mechanics and observed aircraft design material, Propulsion system, aerodynamic optimization techniques.

The Guide explains about TU-142 aircraft and life of air wing and navy in aircraft and submarines.

EDUCATIONAL TOUR





EDUCATIONAL TOUR



OUTCOMES:

The outcomes of educational tour are

- 1) Enhanced understanding of theoretical concepts
- 2) Practical application of Knowledge
- 3) Development of research and analytical skills
- 4) Increased awareness of Industry trends and developments
- 5) Insight into ongoing research projects and applications

CONCLUSION:


The educational tour of department of Chemistry in association with Physics to Visakhapatnam was success and achieving objects of providing students with a comprehensive learning experience beyond classroom. Through this tour, Students gained valuable insights in to Nuclear Chemistry in association with Physics , Doppler weather RADAR, Analytical instruments Lab, NMR Lab, TU-142 Air craft and submarine museum and developed essential skills and forged lasting connections with professionals and peers of Chemistry in association with Physics of Andra University.

LIST OF MPC STUDENTS ATTENDED FIELD VISIT

S.NO	REGD NO	NAME OF THE STUDENT	CLASS/GROUP	PHONE NUMBER
1	2237002	D. Ganga Bhavani	III MPC	9618178988
2	2237003	K. Veera veni	III MPC	9705281140
3	2237004	T. Anantha	III MPC	8501818411
4	2237005	V. Vijaya Lakshmi	III MPC	9010482790
5	2237010	B. Lovatalli	III MPC	9392184852
6	2237010	K. Bhavani	III MPC	7893673234
7	2237011	M. Jyotshna	III MPC	9059054239
8	2237013	S. Sammaakka	III MPC	9346692788



Signature of Incharge of Chemistry department



PRINCIPAL
A.S.D.GOV.T.DEGREE COLLEGE (M)
AUTONOMOUS
KAKINADA

Signature of Principal