



Uka Tarsadia University

Department of Physics

Report on ESL lab Visit

Date: 4 October, 2024

Venue: Environmental Survey Laboratory (ESL), Kakrapar Atomic Power Station (KAPS), Gujarat

Time: 9:00 AM to 3:30 PM

Total No. of Participants: 19 (Male: 09 and Female: 10)

Event Coordinator: Dr. Kinjal Patel

Program objective: To provide practical experience and a deeper understanding of environmental monitoring techniques, particularly in relation to the nearby nuclear power plant.

Program outline: Participants toured the Environmental Monitoring and Studies Laboratory (ESL) at Kakrapar and learned about various environmental testing tools. The visit concluded with an interactive session addressing challenges in environmental protection.

Program outcomes:

- Students and faculty discussed challenges in environmental protection during the interactive session.
- ESL's role in mitigating industrial hazards was highlighted, providing valuable insights.
- The visit bridged theoretical knowledge with practical, real-world applications of environmental monitoring.
- The visit enhanced understanding of scientific techniques used to protect public health and the environment.

Schedule of Events in a tabular format (if applicable)

Time	Activity
Bus departure from UTU	9: 00 AM
ESL Lab visit	10: 00 AM to 2:15 PM
Bus departure from ESL lab	2:30 PM
Return to UTU time	3:30 PM

List of Participants in a tabular format ((if applicable))

Name of Participant	Stream	Name of Program
CHAUDHARI BRAHMAXI SURESHBHAI	Physics	M.Sc. Physics
PRAJAPATI MAITRI JITUBHAI	Physics	M.Sc. Physics
PATEL AMANKUMAR MAHENDRABHAI	Physics	M.Sc. Physics
HARI KUMAR PATEL	Physics	Integrated M.Sc. Physics
PATEL PURNIMAKUMARI VIPULBHAI	Physics	Integrated M.Sc. Physics
VAHIA MEETKUMAR MINESHBHAI	Physics	Integrated M.Sc. Physics
CHAUDHARI VRUNALBHAI JIVANBHAI	Physics	Integrated M.Sc. Physics
CHAUDHARI SHREYABEN AMITBHAI	Physics	Integrated M.Sc. Physics
DEVANI KEYU ASHVINBHAI	Physics	Integrated M.Sc. Physics
RENIK CHAUDHARI	Physics	B.Sc. Physics
MARGI SOLANKI	Physics	Ph.D. Physics
MALTI GURJAR	Physics	Ph.D. Physics
RINKAL BHORANIYA	Chemistry	Ph.D. Chemistry
ANURAAG MOTURI	Chemistry	Ph.D. Chemistry
DINKLE KASUNDRA	Chemistry	Ph.D. Chemistry
PRIYANKA CHAVDA	Chemistry	Ph.D. Chemistry
DR. VISHVA JAIN	Physics	Staff Member
DR. JAYMIN RAY	Physics	Staff Member
DR. KINJAL PATEL	Physics	Staff Member

Details:

The visit aimed to bridge theoretical learning with real-world applications in environmental protection. Participants were welcomed at 10:00 AM by the ESL team, who provided an overview of the lab's role in safeguarding the environment around the nuclear power plant. Following this, a guided lab tour showcased instruments such as radiation detectors, water sampling devices, and air quality monitors. ESL staff explained the processes involved in collecting and analyzing environmental samples. The event concluded with an interactive Q&A session, where students and faculty discussed the challenges and solutions in environmental monitoring. The ESL team elaborated on their strategies to ensure public health and environmental safety around Kakrapar's nuclear facility. Overall, the visit was a success, providing valuable insights into environmental monitoring and its critical role in nuclear and industrial safety. Students were inspired to explore research in environmental science, and faculty members acknowledged the visit's importance in enhancing academic learning.



Concluding Remarks

- The visit to ESL at Kakrapar was a highly educational experience that connected theoretical knowledge with practical application. Students left with a better understanding of environmental monitoring techniques and their significance in protecting ecosystems from industrial impact. Faculty members appreciated the visit's contribution to their students' learning journey, encouraging further interest in careers related to environmental sustainability and protection.
- Criteria: 3 and 5

Report prepared by Dr. Kinjal Patel

Date: 7 October, 2024

Sign of the HOD

