

Assabah Arts & Science College, Valayankulam
Department of Geology

ANNUAL REPORT 2024-2025

INDEX

SI NO	DATE	PROGRAMME
1	5/06/24	Environment Day Celebration
2	8/06/24	Quiz competition on World Ocean Day
3	7/08/24	Familiarizing geology books and journal – Vayanavaram Programme
4	16/09/24	Webinar
5	14/11/24	Intercollegiate visit
6	23/01/25	Field visit
7	27/01/25	Nature Camp
8	17/02/25	CUSSP Programme
9	8/04/25	Seminar

PROGRAMME REPORT

Academic year: 2024-2025

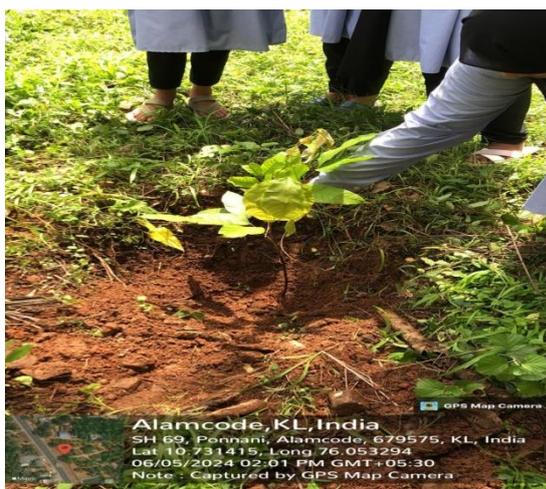
NAME OF PROGRAMME: **Environment Day Celebration**

Date and Time	5th June 2024, 02.00PM
Organized by	Department of Geology, Nature club, & NSS
Target participants	Students of Geology, Nature club, & NSS
Venue	Nearby place of Campus

Environment Day Celebration

Geology students, Nature club, & NSS team of Assabah Arts and Science College in association with IQAC planted a tree on World Environment Day. The Programme was held on 05-06-2024 Wednesday at nearby place of Campus. It helps students learn about sustainable practices and how individual actions can contribute to environmental conservation.

The tree planting activity on World Environment Day was a resounding success, reinforcing our college's commitment to environmental sustainability. By planting trees, we have taken a meaningful step toward enhancing our ecological health and inspiring future generations to prioritize environmental responsibility.



PROGRAMME REPORT

Academic year: 2024-2025

NAME OF PROGRAMME: **Ocean Day Celebration –online quiz competition**

Date and Time	8th June 2024, 10.00AM
Organized by	Department of Geology, P.G. Department of Physics & Nature club
Target participants	Assabah College Science Students
Venue	ONLINE MODE (GOOGLE FORM)

Ocean Day Celebration

On June 8, 2024, the Department of Geology, the Postgraduate Department of Physics and Nature club jointly organized a quiz competition in celebration of Ocean Day. This event aimed to raise awareness about ocean conservation and educate students on various aspects related to marine science.

The primary objective of the quiz competition was to enhance students' knowledge about the oceans, their significance, and the pressing environmental issues affecting them. This initiative was part of the departments' commitment to fostering a deeper understanding of marine ecosystems among students.

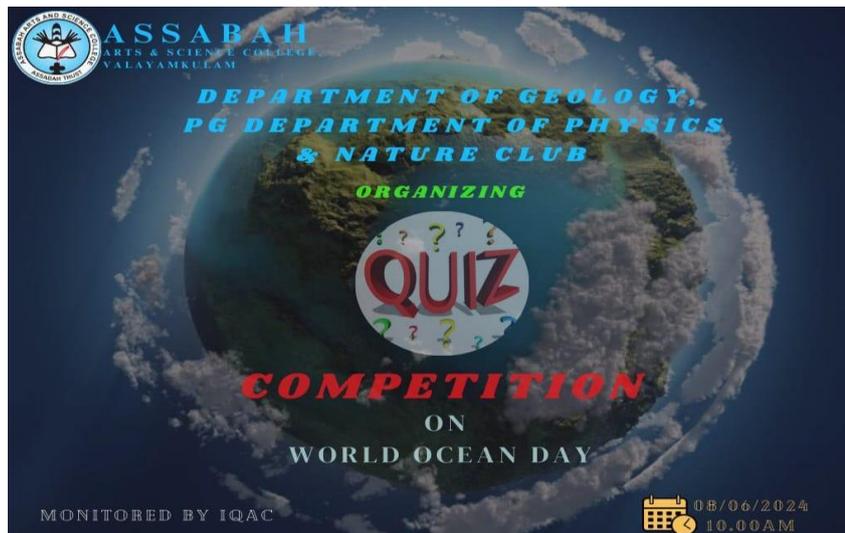
The quiz was conducted online, allowing participants to join from the comfort of their homes or other convenient locations. The competition consisted of several rounds, each focusing on different themes related to oceanography, marine biology, and environmental conservation. The questions ranged from basic concepts to advanced topics, ensuring a comprehensive evaluation of the participants' knowledge.

A total of 25 students from various science disciplines enthusiastically participated in the competition. The participants displayed a commendable level of knowledge and competitiveness throughout the event. The online format facilitated smooth interaction and engagement among the students and organizers.

The quiz competition organized on Ocean Day was a resounding success, reflecting the students' interest and dedication to understanding and preserving our oceans. The event not only celebrated the significance of the oceans but also highlighted the critical role of

education in promoting environmental stewardship. The departments look forward to organizing more such events in the future to continue fostering environmental awareness and scientific curiosity among students.

This report captures the essence of the quiz competition held on Ocean Day and underscores its significance in promoting marine science education.



PROGRAMME REPORT

Academic year: 2024-2025

NAME OF PROGRAMME: **Familiarizing geology books and journal** –Vayanavaram

Date and Time	7th August 2024, 02.30PM
Organized by	Department of Geology
Target participants	Assabah College Geology Students
Venue	College Library

The Department of Geology successfully organized an event titled "**Familiarising Geology Books and Journals**" as part of *Vayanavaram*, a one-week college-level initiative aimed at enhancing the reading habits and academic engagement of the student community. This programme was held in the College Library on 07/8/24 with active participation from students, faculty members etc.

The main objectives of this initiative were:

- To encourage students to develop a deeper interest in academic and scientific reading.
- To introduce students to a wide range of reference materials in geology, including textbooks, academic journals, field guides, and research publications.
- To provide guidance on how to effectively use scholarly sources for academic and research purposes.

Programme Highlights

- **Book and Journal Display**
A curated collection of geology books and journals, including both classic and contemporary titles, was displayed. This included works on petrology, mineralogy, structural geology, sedimentology, paleontology, and environmental geology, as well as recent issues of reputed journals like *Journal of Geosciences*, *Geological Society of India Bulletin*.
- **Interactive Sessions**
Faculty members conducted short interactive sessions highlighting the importance of scientific literature in the field of geology. Students were guided on how to read and interpret scientific articles, including methods of identifying research gaps and citing sources.
- **Student Reflections**
As part of the activity, students were encouraged to pick a book or journal article of interest and present a brief review or summary. This exercise helped develop their analytical and communication skills.
- **Library Orientation**
A special session was conducted in collaboration with the college library staff, focusing on how to access geological databases, digital libraries, and e-journals available through institutional subscriptions.

The programme received positive feedback from both students and faculty. Many students expressed that the event helped them discover new areas of interest within the field of geology and improved their understanding of how to approach academic literature.

The event *Familiarising Geology Books and Journals* was a meaningful contribution by the Department of Geology to the *Vayanavaram* initiative. It successfully fostered a culture of academic curiosity and reading among the students. The department plans to conduct similar sessions periodically to keep the momentum of academic engagement alive.



PROGRAMME REPORT

Academic year 2024-25

NAME OF PROGRAMME: WEBINAR

Date and Time	16.09.2024, 11.00AM
Organized by	Department of Geology PG Department of Physics, PG Department of Chemistry and Science Club,
Participants	Students of geology,physics,chemistry & science club
Mode	Online

The Departments of Geology ,Physics, Chemistry, and the Science Club, in association with the Internal Quality Assurance Cell (IQAC), organized an informative and engaging webinar on the topic, "**Why Life Only on Earth - Importance of the Ozone Layer.**"

The webinar commenced with a welcome address by Dr. Jayaraj K, the Head of the Department of Chemistry, who emphasized the importance of understanding the factors that make Earth habitable, particularly the critical role of the ozone layer. He welcomed the participants, resource persons, and distinguished guests.

The webinar was inaugurated by the respected principal, M.N. Mohamed Koya, who appreciated the initiative taken by the organizing departments and IQAC for facilitating such a relevant and insightful topic. In his inaugural speech, he highlighted how interdisciplinary studies play a significant role in understanding the complexities of life on Earth and the environmental challenges we face today.

The session was led by the resource person, Mr. Benoy V Varghese, a geography teacher from Government Higher Secondary School, Peruva, Kottayam. His presentation centered around the topic "Why Life Only on Earth - Importance of the Ozone Layer." Mr. Benoy V Varghese provided a detailed exploration of the unique conditions that make Earth the only known planet to support life. He explained how the ozone layer acts as a protective shield by absorbing harmful ultraviolet (UV) radiation from the sun, thus playing a pivotal role in preserving life on Earth.

He discussed the following key points:

- The formation and composition of the ozone layer
- The function of the ozone layer in blocking UV rays
- The impacts of ozone depletion and the dangers posed by increased UV radiation
- Human activities that have contributed to ozone depletion
- Global efforts, such as the Montreal Protocol, to protect the ozone layer

Mr. Benoy V Varghese emphasized the necessity of protecting the ozone layer and discussed the current status of global environmental initiatives. His session was highly engaging, sparking curiosity among the participants.

The webinar saw active participation from students of the Geology, Chemistry, and Physics Departments, as well as members of the Science Club. The students posed several questions regarding the ozone layer, the potential for life on other planets, and the future of Earth's environment. Mr. Benoy V Varghese addressed each query, providing clear explanations and encouraging further thought on the topic. The interactive segment was particularly enlightening, as students delved deeper into the implications of ozone depletion on various ecosystems and human health.

The session concluded with a vote of thanks by Mr. Ranjuraj K, the Head of the Department of Physics, who expressed his gratitude to Mr. Benoy V Varghese for his enlightening talk, the principal for his continuous support, and the organizing departments for their collaborative efforts. He also thanked the students for their active participation, which contributed to the success of the event.



Assabah Arts And Science College,Valayamkulam

Department of chemistry,Physics,Geology and Science club

World Ozone Day

"WHY LIFE ONLY IN EARTH:IMPORTANCE OF OZONE"

WEBINAR

Resource Person



BENOY V VARGHESE
HSST GEOGRAPHY
GOVT HSS
PERUVA,KOTTAYAM

16 SEPT



Start At 11.00Am



<https://meet.google.com/qii-yez-x-zec>

IN ASSOCIATION WITH IQAC



This screenshot shows a Google Meet interface. At the top, a status bar indicates the meeting ID '1114 | qj-ytqx-zxc'. The main content area displays a screen share of a globe with latitude lines and labels: 66.5°N, 23.5°N, 0°, 23.5°S, and 66.5°S. A 'Stop sharing' button is visible at the bottom of the screen share. Below the screen share, the text 'benoy is presenting' is shown. The bottom section contains a grid of participant thumbnails: 'benoy' (muted), 'vibitha' (muted), 'Principal' (muted), and 'Shaharban Rasheed' (muted). A notification at the bottom left states 'Shaharban Rasheed joined'.

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PROGRAMME REPORT

Academic year 2024-25

NAME OF PROGRAMME: INTERCOLLIGIATE VISIT

Date and Time	14.11.2024, 11.00AM
Organized by	Department of Geology
Participants	Final year geology students
Venue	Christ college,Irinjalakkuda

As part of the academic and collaborative efforts to enhance geological knowledge and intercollegiate cooperation, the Department of Geology organized a one-day intercollegiate geological visit to Christ College, Irinjalakuda. The visit aimed to promote academic exchange, expose students to advanced research facilities, and encourage collaboration between institutions in geological studies.

Objectives of the Visit

- To foster academic interaction between students and faculty of different colleges.
- To explore and understand the geological collections and laboratory setups at Christ College.
- To attend expert talks and interactive sessions related to recent trends in geology.
- To strengthen student exposure to practical applications and interdisciplinary research.

A total of 15 students and three faculty members from the Department of Geology participated in the visit. The delegation was led by Vibitha V M Head of Department.

Students were given a guided tour of the geology laboratory and the department's museum, which houses a wide range of mineral and rock specimens, fossil collections, and thin-section samples.

Outcomes and Benefits

- Improved understanding of practical geological tools and specimens.
- Inspiration for interdisciplinary and intercollegiate student research projects.
- Strengthened network between the two institutions for future academic initiatives.
- Students gained exposure to different pedagogical approaches and lab equipment.

The intercollegiate geological visit to Christ College, Irinjalakuda was a highly enriching experience for both students and faculty. It not only enhanced academic learning but also laid the foundation for future collaborations. The Department of Geology expresses sincere gratitude to the staff and students of Christ College for their hospitality and engagement.



PROGRAMME REPORT

Academic year 2024-25

Name of the Programme : **Field trip**

Date	23/01/2025 to 3/02/2025
Organized by	Department of Geology
Participants	Final year & second year geology students
Venue	Karnataka ,Andhra Pradesh Tamil Nadu

The Department of Geology organized a comprehensive field visit for undergraduate students as part of their curriculum to enhance practical understanding of geological formations, structures, and processes. The field trip spanned key geological sites across Karnataka, Tamil Nadu, and Andhra Pradesh, and was conducted under the supervision of faculty members from the department.

Objectives of the field visit include providing students with first-hand experience of various rock types, mineral occurrences, and structural features. To study and identify stratigraphic sequences, geological formations, and tectonic features in different terrains. To develop skills in geological mapping, rock and mineral identification, and interpretation of geologic history & to link theoretical classroom knowledge with real-world geological scenarios.

The field visit proved to be a valuable component of the curriculum, offering students a holistic and immersive learning experience. Participants developed practical skills in geological fieldwork, honed their observational abilities, and gained a deeper appreciation for the complexities of geological processes outside the classroom.

The field visit was a highly enriching experience that provided a valuable practical complement to theoretical studies. Students gained a holistic understanding of diverse geological formations across Southern India. The department plans to continue such initiatives in future semesters to maintain high academic standards and field competency among students.





PROGRAMME REPORT

Academic year 2024-25

NAME OF PROGRAMME: **Nature camp**

Date	27/01/25-28/01/25
Organized by	Department of Geology & Nature club
Participants	1 st year Geology Students & Nature club members
Venue	Attappadi

A two-day nature camp was successfully conducted at Attappadi on 27th January 2025, jointly organized by the Department of Geology and the Nature Club. The camp aimed to promote environmental awareness, foster a love for nature among students, and provide a hands-on experience in geological and ecological studies.

The nature camp in Attappadi aimed to engage participants in the unique biodiversity of the region, fostering environmental awareness and conservation efforts. Located in the Western Ghats, Attappadi is known for its rich flora and fauna, making it an ideal location for such an initiative.

Activities:

1. **Tribal Heritage Walks:** Participants engaged in guided walks led by local tribal guides, providing insights into the indigenous culture and traditional ecological knowledge of the region's tribal communities, and their hamlets
2. **Biodiversity Exploration:** Field trips were organized to explore the diverse ecosystems of Attappadi, including visits to forests, grasslands, and riverine habitats. Participants learned about the importance of preserving these habitats and the unique species they support. Narasimukk view point was there to explore the uniqueness of Attappadi.
3. **Bird Watching and Wildlife Photography:** Participants had the opportunity to observe a wide variety of bird species and wildlife endemic to the region.

Photography sessions provided a platform for documenting the natural beauty of Attappadi and raising awareness about its conservation.

4. Disclosing the tradition of tribes by Mr James: Mr James handled a very interactive session with us, he is the retired Head master of APJ Abdulkalam International Residential Tribal School.
5. Campfire activities: Evening campfire sessions provide opportunities for participants to share their experiences, insights and reflections. And also their cultural activities made much charming night there.

The nature camp in Attappadi had a significant impact on both participants and the local community. Participants gained a deeper understanding of the region's biodiversity and cultural heritage, fostering a sense of responsibility towards its conservation. Local communities benefited from the exchange of knowledge and resources, strengthening their capacity for sustainable development and environmental stewardship.

The nature camp in Attappadi successfully achieved its objectives of promoting environmental awareness, biodiversity conservation, and cultural exchange. By engaging participants in experiential learning activities amidst the natural beauty of Attappadi, the camp contributed to building a more sustainable and harmonious relationship between humans and the environment in this ecologically sensitive region.





PROGRAMME REPORT

Academic year: 2024-2025

NAME OF PROGRAMME: CUSSP PROGRAMME-Campus Cleaning

Date and Time	17th February 2025
Organized by	Department of Geology & Nature club
Target participants	Students of Geology & Nature club
Venue	Campus

Nature club and Geo club team of Assabah Arts and Science College in association with IQAC organized CUSSP programme – a campus cleaning initiative aimed at removing plastic waste and raising awareness about environmental conservation. The Programme was held on 17-02-2025 Monday at Campus. This program, focused on cleaning up plastic debris scattered across the campus and promoting sustainable practices among the student body.

The campus cleaning programme was a resounding success, with students playing an active role in reducing plastic waste on campus. It was an educational and empowering experience, demonstrating how collective efforts can lead to significant environmental improvements. The event also emphasized the need for sustainable habits and regular environmental initiatives.



PROGRAMME REPORT

Academic year 2024-25

NAME OF THE SEMINAR: GIS: BASIC PRINCIPLES

Date and Time	8th April 2025, 10.00AM
Organized by	Department of Geology
Target participants	Assabah College Geology Students
Venue	Geology lab

The Department of Geology successfully organized a seminar on "*GIS: Basic Principle*" on **8th April 2025**, as part of its ongoing academic enrichment activities. The seminar aimed to introduce students to the foundational concepts of **Geographic Information Systems (GIS)** and their practical applications in geological research and analysis.

The primary objective of the seminar was to: Familiarize participants with the basic principles and functionalities of GIS. Highlight the significance of GIS in geological mapping, environmental monitoring, and resource management. Encourage the use of GIS tools in academic and field-based research.

The seminar was conducted by Mr. Sanjayan (Research Scholar, MES Ponnani College, Ponnani) an expert in the field of Geoinformatics. The speaker brought valuable insights into the theoretical and practical aspects of GIS.

The session commenced at 10am with a welcome address by Vibitha V M Head of the Department of Geology. This was followed by a detailed presentation on the history, structure, and components of GIS, including data models, spatial data analysis, and map creation techniques. Real-life case studies demonstrating the application of GIS in geological surveys and disaster management were shared. An interactive Q&A session allowed students to engage directly with the resource person.

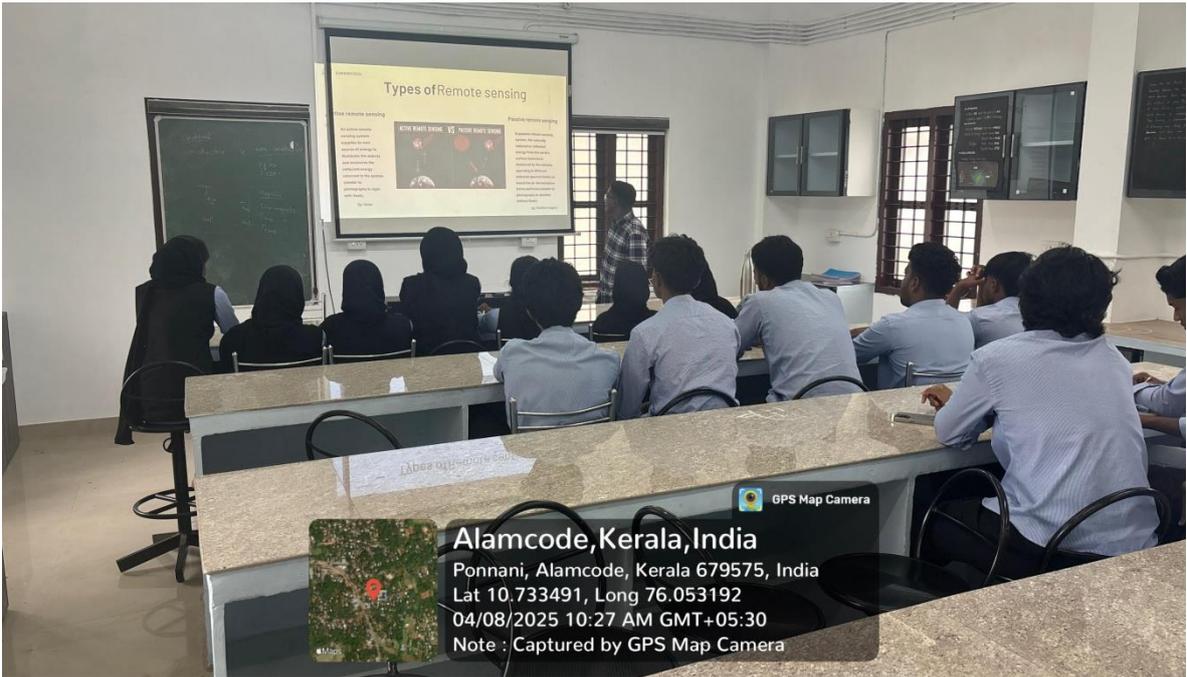
By this seminar the participants gained the following outcome:

- A foundational understanding of how GIS works
- Insights into how GIS can be used to solve real-world geological problems
- Awareness about career and research opportunities in the field of geospatial science

The seminar was informative and highly appreciated by all attendees. The Department of Geology plans to organize more advanced sessions on GIS and related tools in the future to build upon this foundational knowledge.



GPS Map Camera
Alamcode, Kerala, India
Ponnani, Alamcode, Kerala 679575, India
Lat 10.733487, Long 76.053178
04/08/2025 10:25 AM GMT+05:30
Note : Captured by GPS Map Camera



GPS Map Camera
Alamcode, Kerala, India
Ponnani, Alamcode, Kerala 679575, India
Lat 10.733491, Long 76.053192
04/08/2025 10:27 AM GMT+05:30
Note : Captured by GPS Map Camera