

Assabah Arts & Science College, Valayamkulam

Department of Geology

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## **ANNUAL REPORT 2025-2026**

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## **PROGRAMME REPORT**

Academic year: 2025-2026

**NAME OF PROGRAMME: Environment Day Celebration**

|                            |                                           |
|----------------------------|-------------------------------------------|
| <b>Date and Time</b>       | 5th June 2025, 10.00PM                    |
| <b>Organized by</b>        | Department of Geology, Nature club, & NSS |
| <b>Target participants</b> | Students of Geology, Nature club, & NSS   |
| <b>Venue</b>               | Nearby place of Campus                    |

### **Environment Day Celebration**

The Department of Geology, in collaboration with the Nature Club and NSS unit of Assabah Arts and Science College, organized a meaningful event in observance of World Environment Day on 5th June 2025 (Thursday). The programme, conducted under the guidance of IQAC, was held at a nearby location within the campus premises.

As part of the celebration, students enthusiastically participated in a tree planting activity, aimed at promoting environmental awareness and sustainable practices. This hands-on initiative enabled students to better understand the role of individual responsibility in protecting and conserving nature.

The event proved to be a great success, reflecting the institution's continued commitment to environmental stewardship. Through the symbolic act of planting trees, the participants took a valuable step toward enhancing ecological balance and inspiring others to adopt environmentally responsible habits.

This celebration not only strengthened the values of sustainability among students but also served as a reminder of the power of collective action in building a greener future.



## **PROGRAMME REPORT**

Academic year: 2025-2026

**NAME OF PROGRAMME: Ocean Day Celebration –Photographic contest**

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>Date and Time</b>       | 10/06/2025                                   |
| <b>Organized by</b>        | Department of Geology                        |
| <b>Target participants</b> | Assabah College Students                     |
| <b>Venue</b>               | Assabah Arts & Science College, Valayamkulam |

### **Ocean Day Celebration**

To commemorate World Ocean Day, the Department of Geology organized a photography contest for college students under the broader umbrella of Ocean Day celebrations. The contest served as a creative platform to express appreciation for the ocean and natural systems that sustain life on Earth. The event took place on 10<sup>th</sup> June 2025 with enthusiastic participation from students across various disciplines.

The central theme of the contest was: “Wonder-Sustaining What Sustains Us” This theme invited participants to reflect on and visually represent the essential systems, organisms, and elements—especially the ocean—that support life on our planet. Students were encouraged to showcase the interdependence between humans and nature, emphasizing how the preservation of what sustains us is crucial for a sustainable future.

The main objectives of the photography contest were:

- To promote awareness of the vital role oceans and ecosystems play in sustaining life.
- To inspire students to explore the beauty and fragility of natural systems through photography.
- To encourage creative environmental storytelling and personal connection to the theme of sustainability.

### **Participation and Guidelines**

- The contest was open to all undergraduate and postgraduate students of the college.
- Participants submitted a single original photograph accompanied by a title and a brief description.
- Format: photos must be in JPEG format.
- Raw photos only: Edited or retouched photos are not allowed.
- Phone camera only: Photos must be taken using a mobile phone camera.
- Original work: Photos must be original and taken by the contestant.
- Submission: Photos should be submitted to [asbhgeo@gmail.com](mailto:asbhgeo@gmail.com).
- Deadline: 13/6/25
- A total of 17 entries were received, showcasing a variety of perspectives.

## Judging and Evaluation

The judging panel included:

- Faculty members from the Department of Geology

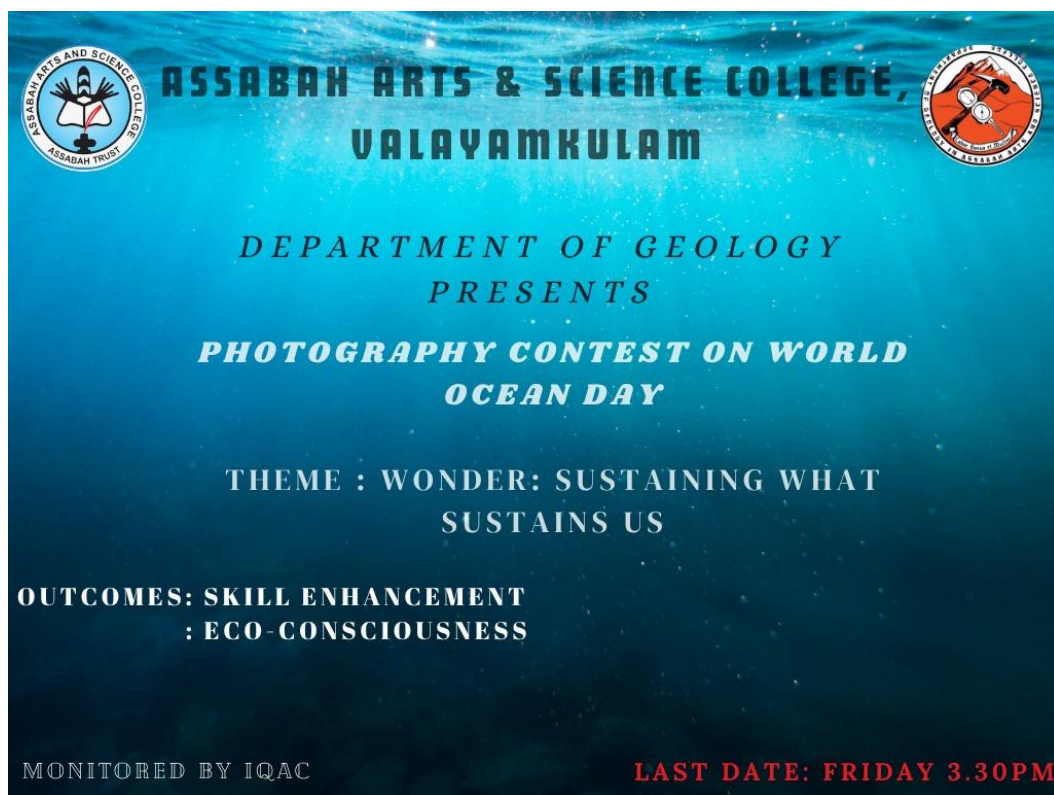
### Evaluation Criteria:

- Relevance to the theme
- Originality and creativity
- Technical composition and visual appeal
- Clarity and emotional impact of the message

## Results and Recognition

The winners were announced during the Ocean Day closing ceremony. The top entries were recognized for their exceptional ability to capture the theme visually and meaningfully.

The photography contest was a resounding success, combining artistic expression with environmental consciousness. The event fostered student engagement, creativity, and awareness about sustainability, echoing the importance of protecting the natural systems that sustain life—especially our oceans. The Department of Geology looks forward to making this an annual tradition to inspire on going ecological awareness and action.



## **PROGRAMME REPORT**

Academic year: 2025-2026

**NAME OF PROGRAMME: Digital Library and Journal Access–Vayanavaram**

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| <b>Date and Time</b>       | 24 July 2025, 11.30 AM                                      |
| <b>Organized by</b>        | Department of Geology                                       |
| <b>Target participants</b> | 2 <sup>nd</sup> Year BSc Geology students – Assabah College |
| <b>Venue</b>               | Room No:02, Safa Block                                      |

The Department of Geology organized a session titled “Digital Library and Journal Access” as part of the *Vayanavaram* initiative, aimed at promoting reading habits and academic engagement among students. The programme was conducted in the classroom with active participation from second-year B.Sc. Geology students.

### **Objectives of the Programme**

- To introduce students to digital libraries and online academic resources.
- To enhance students’ ability to access and utilize research journals.
- To promote the use of reliable and scholarly sources for academic work.
- To develop students’ research and referencing skills.

### **Programme Details**

The session focused on familiarizing students with various digital platforms used for accessing academic materials and research publications. Students were introduced to widely used platforms such as Google Scholar, Research Gate, JSTOR, and Science Direct.

Special attention was given to geology-related journals and publications from organizations such as the Kerala State Council for Science, Technology and Environment and the Shodhganga. Students were guided on how to search for articles, understand abstracts, and identify peer-reviewed content.

The session also briefly introduced platforms like Z-Library, with emphasis on the importance of using ethical and reliable academic sources, including open-access journals and institutional subscriptions.

## Smartphone-Based Access to Digital Academic Resources

A practical demonstration was given on how students can use smartphones to access digital libraries and journals independently. Students were guided on:

- Using mobile browsers and apps to access academic websites
- Searching and downloading research papers on their own devices
- Saving articles for offline reading
- Using keywords effectively for quick searches
- Making use of free and open-access resources anytime and anywhere

This session encouraged students to utilize their smartphones as effective academic tools for continuous learning.

## Outcome of the Programme

- Students gained awareness of various online academic platforms.
- Improved understanding of accessing and using research journals.

Developed interest in academic reading and research activities



The programme was highly informative and beneficial for students. It enhanced their knowledge of digital academic resources and encouraged them to effectively use online libraries and journals for their academic work and future research. The Department of Geology plans to organize similar sessions to further strengthen students' academic skills.



## **PROGRAMME REPORT**

Academic year 2025-26

**NAME OF THE PROGRAMME: Orientation Session for First Years**

|                            |                             |
|----------------------------|-----------------------------|
| <b>Date and Time</b>       | 03/08/28                    |
| <b>Organized by</b>        | Dept.of Geology             |
| <b>Target participants</b> | First Year Geology Students |
| <b>Venue</b>               | Assabah College             |

The Department of Geology organized an Orientation Session and Career Opportunities Programme for the first-year B.Sc. Geology students with the objective of welcoming the new batch and introducing them to the academic environment and future prospects in the field of geology.

The programme commenced with a warm welcome by the Head of the Department, who highlighted the significance of geology in understanding the Earth and addressing contemporary challenges related to natural resources, environmental sustainability, and disaster management. Faculty members introduced themselves and provided an overview of the department, its facilities, curriculum, laboratory resources, fieldwork activities, and academic expectations.

A dedicated session on career opportunities in geology was conducted to familiarize students with the diverse professional avenues available after graduation. The speakers discussed employment prospects in government organizations, mining and mineral exploration companies, petroleum and energy sectors, groundwater management, environmental consulting firms, geotechnical engineering, remote sensing and GIS, research institutions, and academia. Students were also informed about opportunities for higher education, competitive examinations, and emerging fields such as climate studies and geospatial technologies.

The interactive programme encouraged students to ask questions regarding internships, skill development, field training, and career planning. Faculty members emphasized the importance of developing technical knowledge, communication skills, and practical experience through field visits and research activities.

The session concluded with a vote of thanks, expressing appreciation to the organizers, faculty members, and participants for making the programme informative and engaging. The orientation successfully motivated the first-year students to pursue their studies with enthusiasm and provided them with valuable insights into the exciting career possibilities available in the discipline of geology.





## **PROGRAMME REPORT**

Academic year 2025-26

**NAME OF PROGRAMME: Research Methodology**

|                      |                                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| <b>Date and Time</b> | 20/11/25 ,10.00-12.30                                                                |
| <b>Organized by</b>  | Department of Geology                                                                |
| <b>Participants</b>  | Assabah College Geology Students, Geology students of KVUMDHO College, Pookkarathara |
| <b>Venue</b>         | College conference hall,Safa Block                                                   |

The Department of Geology conducted a seminar on “*Research Methodology*” on 20th November, in collaboration with the Institution’s Innovation Council (IIC) and the Research & Development Cell.

The program was designed to enhance the research skills and scientific understanding of students, enabling them to effectively undertake academic projects, field studies, and geological investigations.

Objectives of the seminar

The main objectives of the session were:

- To introduce students to the fundamental principles of research methodology.
- To develop understanding of research design, data collection, and analytical techniques used in geological studies.
- To guide students on preparing research proposals, dissertations, and scientific reports.
- To create awareness about innovation, critical thinking, and problem-solving in geology.
- To encourage students to engage in research-oriented academic activities through IIC and the R&D Cell.

The seminar began with an introductory session by the HOD, of the department, introduced the theme, and thanked the faculty, IIC & R&D cell for their support. Principal inaugurated the seminar, emphasizing the importance of robust research methods for advancing geological knowledge and encouraging interdisciplinary collaboration.

Resource persons was Dr.Arya Viswam (HOD, Department of Geology KR’s SN College Valanchery) delivered detailed presentations on:

- The nature and scope of scientific research
- Types of research (qualitative, quantitative, field-based, laboratory-based)
- Research design and hypothesis formulation

- Data collection methods in geology (field mapping, sampling techniques, laboratory analysis, GIS tools, etc.)
- Data interpretation and statistical approaches
- Ethical practices in research
- Preparing effective research papers and project reports

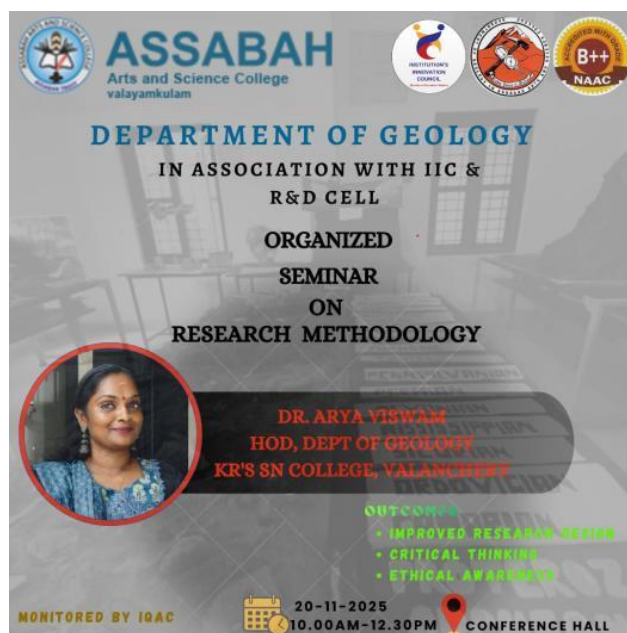
Interactive activities and discussions helped students understand the practical aspects of applying research methodology to real-world geological problems.

### Outcomes of the seminar

The seminar proved to be highly beneficial for the students. Key outcomes included:

- Improved understanding of research processes and structures
- Increased confidence in designing and conducting geological research
- Awareness of innovative approaches encouraged by IIC
- Enhanced ability to prepare research proposals and academic reports
- Motivation to participate in research activities and future projects supported by the R&D Cell

The “Research Methodology” workshop successfully fulfilled its objective of enriching the research capabilities of geology students. The collaboration between the Department of Geology, IIC, and the Research & Development Cell played a vital role in delivering a comprehensive and engaging academic experience. The event effectively inspired students to pursue quality research and contribute to scientific development in the field of geology.





## **PROGRAMME REPORT**

Academic year 2025-26

### **NAME OF THE PROGRAMME: Project Framework**

|                            |                                |
|----------------------------|--------------------------------|
| <b>Date and Time</b>       | 28/11/2025                     |
| <b>Organized by</b>        | Dept.of Geology                |
| <b>Target participants</b> | Final year students of Geology |
| <b>Venue</b>               | Aassabah college               |

The Department of Geology organized an informative session titled “Project Framework – Introducing Project Preparation” for the final-year undergraduate geology students with the aim of guiding them through the process of planning and executing their academic projects effectively.

The programme was designed to familiarize students with the essential components of project work, including the selection of research topics, formulation of objectives, literature review, methodology, field investigations, data collection, analysis, interpretation, and report writing. Faculty members emphasized the importance of choosing relevant and feasible research problems that contribute to the understanding of geological processes and local environmental issues.

During the session, students were introduced to the standard structure of a project report, ethical research practices, referencing techniques, and the importance of maintaining accuracy in field observations and data documentation. Practical guidance was also provided on preparing project proposals, scheduling fieldwork, organizing datasets, and presenting findings through maps, graphs, and illustrations.

The speakers encouraged students to develop critical thinking, analytical skills, and scientific writing abilities while undertaking their projects. They also highlighted the value of teamwork, time management, and regular interaction with project supervisors to ensure successful completion of the research work.

The interactive programme concluded with a question-and-answer session, where students clarified their doubts regarding project selection, field techniques, and report preparation. The event proved to be highly beneficial, equipping the final-year UG geology students with a clear understanding of the project framework and motivating them to undertake meaningful and well-structured research.

## **PROGRAMME REPORT**

Academic year 2025-26

**NAME OF THE PROGRAMME: Outreach Programme-Water Quality Analysis at Alamcode Panchayath**

|                            |                                |
|----------------------------|--------------------------------|
| <b>Date and Time</b>       | 24/01/26                       |
| <b>Organized by</b>        | Dept.of Geology                |
| <b>Target participants</b> | Final year students of Geology |
| <b>Venue</b>               | Aassabah college               |

The Department of Geology organized an outreach programme on “Water Quality Analysis” at Alamcode Panchayath with the objective of assessing the quality of local water resources and creating awareness among the community about the importance of safe drinking water and groundwater conservation.

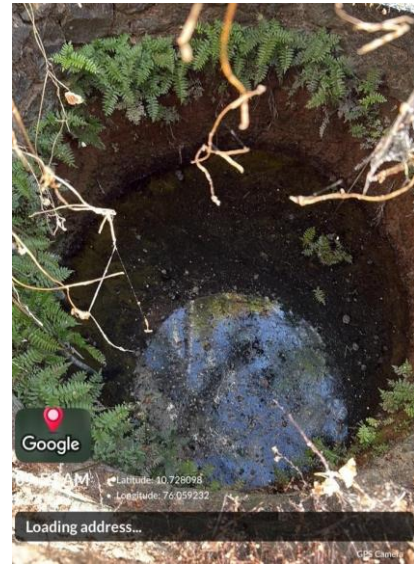
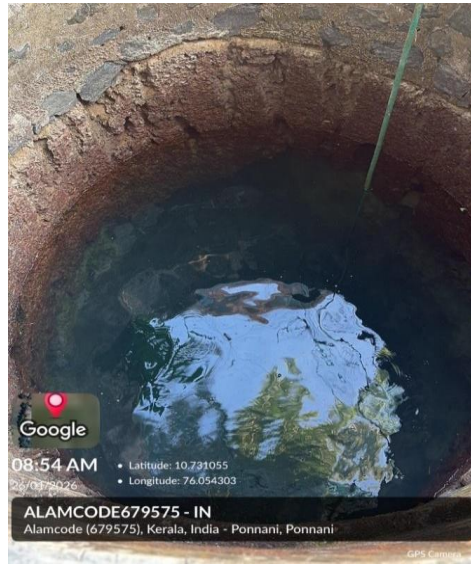
The programme involved the active participation of faculty members and students, who collected water samples from selected locations within the panchayath, including household wells and other commonly used water sources. The samples were subjected to basic physicochemical analyses to evaluate important parameters such as pH, turbidity, total dissolved solids (TDS), hardness, and other indicators of water quality.

As part of the outreach initiative, the team interacted with local residents and explained the significance of regular water quality monitoring, proper well maintenance, and measures to prevent contamination. Awareness was also created regarding sustainable groundwater management, rainwater harvesting, and the protection of water resources from pollution.

The programme provided students with valuable hands-on experience in field sampling, laboratory analysis, and community engagement while applying their geological knowledge to address real-world environmental issues. It also strengthened the relationship between the department and the local community by promoting scientific awareness and public participation in water resource management.

The outreach programme concluded with the sharing of observations and general recommendations for maintaining water quality and ensuring the safe use of local water resources. The initiative was well received by the residents of Alamcode Panchayath and successfully fulfilled its objectives of education, service, and environmental stewardship.





## **PROGRAMME REPORT**

Academic year 2025-26

### **NAME OF THE PROGRAMME: FIELD VISIT**

|                     |                         |
|---------------------|-------------------------|
| <b>Date</b>         | 10/02/2026              |
| <b>Location</b>     | Wayanad                 |
| <b>Conducted By</b> | Department of Geology   |
| <b>Participants</b> | Students of BSc Geology |

On 10th February 2026, the Department of Geology organized a field trip for first-year B.Sc. Geology students to Edakkal Caves and Karapuzha Dam in Wayanad district, Kerala. The trip was conducted under the guidance of tutor, Muhammed Swalih I. The primary objective of the visit was to provide practical exposure to geological formations, rock structures, weathering processes, and human interaction with geological resources.

### **Edakkal Caves**

Edakkal Caves are well known for their unique geological structure and prehistoric significance. The caves are not typical limestone caves formed by dissolution; instead, they are fissure caves formed by the splitting and displacement of huge rock masses.

#### **Geological Observations:**

- The caves are formed within ancient Precambrian rock formations.
- A massive boulder wedged between two larger rock bodies forms the roof of the cave.
- Visible jointing and fracturing patterns indicate tectonic activity.
- Evidence of physical weathering and erosion processes was observed.
- The rock surfaces display ancient petroglyphs carved by early human settlers.

Faculty explained the structural features such as joints, faults, and the role of tectonic forces in shaping the landscape. Students were able to closely examine rock textures, mineral composition, and weathering patterns, which enhanced classroom learning with field-based understanding.





## **Karapuzha Dam**

Karapuzha Dam, one of the largest earth dams in Kerala, provided insight into engineering geology and the importance of geological assessment in dam construction.

### **Geological and Environmental Observations:**

- The dam is constructed across the Karapuzha River.
- The surrounding area consists of crystalline rock formations.
- Soil types and rock stability play a major role in dam site selection.
- Weathering and erosion control measures were visible around the reservoir.
- The reservoir influences local groundwater recharge and microclimate.

Faculty explained the geological investigations conducted before dam construction, including rock strength testing, foundation analysis, and slope stability studies. Students understood the relationship between geology and civil engineering structures.

The field trip to Edakkal Caves and Karapuzha Dam was highly informative and enriching. It successfully connected theoretical knowledge with real-world geological features. The guidance of the faculty helped students gain a deeper understanding of structural formations, weathering processes, and applied geology in dam construction.



## **PROGRAMME REPORT**

Academic year 2025-26

### **NAME OF PROGRAMME: QUIZ COMPETITION**

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Date</b>         | 19/02/2026                           |
| <b>Venue</b>        | Seminar Hall                         |
| <b>Conducted By</b> | Department of Geology & Science Club |
| <b>Participants</b> | Students of Assabah                  |

A Quiz Competition was successfully conducted on 19th February 2026 at the Seminar Hall, Geology Block. The event was organized by the Department of Geology in association with the Science Club as part of the Science Association Programme for B.Sc. Geology First and Second Year students.

The programme commenced with a brief introduction highlighting the importance of scientific knowledge, analytical thinking, and awareness of current developments in the field of Geology. Faculty members from the Department of Geology and coordinators of the Science Club were present to encourage and motivate the participants.

The quiz consisted of multiple rounds covering various topics such as Physical Geology, Mineralogy, Petrology, Palaeontology, Environmental Geology, General Science. The competition included interactive rounds such as Rapid Fire, Visual Identification (minerals and rock specimens), Audio identification and Fun session, which made the event both informative and engaging.

Students from both first and second years actively participated with great enthusiasm. The quiz not only tested their academic knowledge but also enhanced their confidence, teamwork, and quick thinking abilities. The audience was also involved through bonus questions, which added excitement to the session.

At the end of the competition, the winners were announced and appreciated for their excellent performance. Cash prize were distributed to the winning teams and participants. The faculty members congratulated all students for their active involvement and encouraged them to participate in more such academic activities in the future.





# ASSABAH

Arts and Science College  
valayamkulam



## DEPARTMENT OF GEOLOGY

IN ASSOCIATION WITH SCIENCE CLUB

# QUIZ

## COMPETITION FOR STUDENTS

**OUTCOMES**

- IMPROVED TEAM WORK
- CRITICAL THINKING

**MONITORED BY IQAC**



19-02-2026

10.00AM-12.30PM



SEMINAR HALL

## **PROGRAMME REPORT**

Academic year 2025-26

**NAME OF PROGRAMME: MoU Activity**

|                     |                             |
|---------------------|-----------------------------|
| <b>Date</b>         | 27/02/26                    |
| <b>Venue</b>        | MES College,Ponnani         |
| <b>Conducted By</b> | Dept.of Geology,Assabah ASC |
| <b>Participants</b> | Final year geology students |

As part of the Memorandum of Understanding (MoU) established between the Department of Geology, Assabah Arts & Science College and the Department of Geology, MES College Ponnani, an academic collaboration programme was successfully conducted to promote mutual sharing of resources, technical expertise, and research facilities.

Under this collaborative initiative, final-year undergraduate geology students from Assabah Arts & Science College visited the Department of Geology at MES College Ponnani to carry out grain size analysis as part of their project work. The visit provided students with access to specialized laboratory facilities and analytical instruments that enhanced the quality and accuracy of their research.

Faculty members from MES College actively guided the students throughout the analytical process, offering expert support in sample preparation, laboratory procedures, data interpretation, and the scientific significance of grain size distribution in sedimentological studies. Their mentorship enabled the students to strengthen their practical knowledge and refine the methodology adopted in their projects.

The activity exemplified the spirit of academic cooperation envisioned through the MoU by facilitating the exchange of knowledge, laboratory resources, and professional expertise between the two institutions. It also exposed students to a collaborative research environment and encouraged inter-institutional learning and scientific interaction.

The programme proved to be highly beneficial for the participating students, enriching their project experience and enhancing their analytical skills. The successful implementation of this MoU activity reflects the commitment of both departments to fostering academic excellence, research collaboration, and experiential learning for the benefit of undergraduate geology education.





Sieve Analysis at MES Ponnani College



## **PROGRAMME REPORT**

Academic year 2025-26

**NAME OF PROGRAMME: Meet the Scholar**

|                     |                       |
|---------------------|-----------------------|
| <b>Date</b>         | 30/03/2026            |
| <b>Venue</b>        | Geology Lab           |
| <b>Conducted By</b> | Department of Geology |
| <b>Participants</b> | Geology Students      |

The Department of Geology successfully organized an Alumni Talk on 30 March 2026 with the objective of motivating students and providing insights into academic excellence and career development through interaction with distinguished alumni.

The resource person for the session was Ms. Bincy Sharin Babu, an esteemed alumna of the department and 5th Rank Holder in the University Examination. Her remarkable academic achievements and dedication to the field of geology have made her a source of inspiration for the current batch of students.

During the session, Ms. Bincy Sharin Babu shared her educational journey, highlighting the importance of consistent effort, effective study strategies, and active participation in academic and co-curricular activities. She discussed the challenges she encountered during her undergraduate studies and explained how determination, proper time management, and conceptual understanding helped her achieve university rank.

She also offered valuable guidance on preparing for university examinations, undertaking project work, and exploring higher education and career opportunities in geology. Students actively participated in the interactive session by asking questions related to examination preparation, postgraduate studies, and professional prospects in the field.

The programme concluded with a vote of thanks expressing gratitude to the speaker for her inspiring presentation and willingness to share her experiences. The Alumni Talk was highly appreciated by the students and faculty members, serving as a motivating platform that strengthened the bond between alumni and the department while encouraging students to strive for academic excellence.

### **Outcomes of the Programme**

- Inspired students to pursue academic excellence through dedication and disciplined study.
- Provided practical strategies for effective examination preparation and time management.
- Enhanced students' awareness of higher education and career opportunities in geology.
- Encouraged interaction between current students and successful alumni, fostering mentorship and networking.

- Motivated participants to set higher academic goals by learning from the achievements of a university rank holder.
- Strengthened the alumni-institution relationship and promoted a culture of lifelong engagement with the department.



## **PROGRAMME REPORT**

Academic year: 2025-2026

**NAME OF PROGRAMME:** Honouring the Rank holder

|                            |                         |
|----------------------------|-------------------------|
| <b>Date and Time</b>       | 30/3/2026               |
| <b>Organized by</b>        | Dept.of Geology         |
| <b>Target participants</b> | Geology students        |
| <b>Venue</b>               | College conference Hall |

The Department of Geology organized a special felicitation ceremony on 30 March 2026 to honour Ms. Bincy Sharin Babu, an outstanding alumna of the department, for securing the 5th Rank in the University Examination. The programme was conducted to recognize her exceptional academic achievement and to inspire the current generation of students to pursue excellence in their studies.

The event was attended by faculty members, students, alumni, and invited guests. During the ceremony, the Head of the Department welcomed the gathering and congratulated Ms. Bincy Sharin Babu for bringing distinction to the department through her remarkable performance. She was honoured with a memento and a certificate of appreciation in recognition of her dedication, perseverance, and academic excellence.

In her address, Ms. Bincy Sharin Babu expressed her gratitude to the department and acknowledged the support of her teachers, family, and peers in her academic journey. She shared valuable insights into effective study habits, time management, examination preparation, and the importance of maintaining curiosity and commitment in the field of geology. Her words motivated the students to set ambitious goals and work consistently toward achieving them.

The faculty members commended her achievement and emphasized the significance of hard work, discipline, and continuous learning. Students actively interacted with the awardee, making the programme an engaging and inspiring experience.

The felicitation ceremony concluded with a vote of thanks, celebrating not only the success of Ms. Bincy Sharin Babu but also the department's commitment to nurturing academic excellence and maintaining strong ties with its alumni.

### Outcomes of the Programme

- Recognized and celebrated outstanding academic achievement within the department.
- Motivated students to strive for excellence in university examinations.
- Provided practical guidance on effective learning strategies and career planning.
- Strengthened the relationship between alumni and the Department of Geology.
- Encouraged a culture of merit, dedication, and lifelong learning among students.

