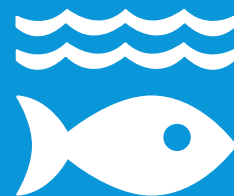


SDG 14 LIFE BELOW WATER

14 LIFE BELOW
WATER



Marine Ecosystem Monitoring at Pameungpeuk Beach: Assessing the Impact of Water Quality, Temperature, and pH on Aquatic Life



Institut Pendidikan Indonesia (IPI) has conducted a crucial initiative at **Pameungpeuk Beach** to monitor marine ecosystems and assess the effects of key environmental factors, including water quality, temperature, pH levels, and other vital variables. This project aims to understand how these elements influence the **health and sustainability of marine life in the area**. By gathering data from Pameungpeuk Beach, IPI provides valuable insights that can help shape more **effective conservation strategies and improve the management of coastal and marine ecosystems**.

Through this research, IPI emphasizes the need to monitor and protect aquatic environments, particularly in light of the challenges posed by **climate change and human impact**. By understanding how changes in water temperature, pH, and quality affect local marine species, the initiative contributes to **preserving biodiversity and supporting sustainable ocean management**. This work plays a significant role in advancing the **goals of SDG 14: Life Below Water, ensuring the health of marine ecosystems for future generations**.



Releasing Fish Seeds to Boost Aquatic Biodiversity in Cihurip, Garut



In celebration of Garut's 210th anniversary, **Institut Pendidikan Indonesia (IPI)** Garut joined forces with the Garut Regency Government in a collaborative effort **to release 210,000 fish** seeds into **Situ Rancahideung in Cihurip**. This initiative, aims to support the conservation of local aquatic ecosystems and enhance the biodiversity of the region's water bodies. Situ Rancahideung, a historically significant water reservoir, has long been a key source of water and a natural asset for Garut, particularly known for its role in water catchment and environmental preservation.

The project is part of IPI ongoing commitment to promoting **environmental sustainability and supporting local communities**. By releasing fish seeds into the reservoir, IPI helps foster the growth of sustainable aquatic life, encouraging responsible fishing practices while enriching the biodiversity of the region. This initiative is aligned with **SDG 14: Life Below Water**, as it directly contributes to the health of **marine ecosystems and the long-term sustainability of aquatic resources**. Through this collaboration, IPI strengthens its dedication to environmental stewardship and supports the creation of a resilient, **biodiverse ecosystem for the future generations of Garut**.

IPI Conduct Marine Biodiversity Assessments at Pangandaran Beach

Institut Pendidikan Indonesia (IPI) conducted a series of studies to assess the **density, abundance, and coverage of marine life at Pangandaran Beach**, a key coastal area known for its rich biodiversity. This research focused on **understanding the health of the local marine ecosystem** by evaluating the distribution and population of various marine species. The data gathered will help assess the current state of marine biodiversity and inform **future conservation efforts**.



The initiative directly contributes to SDG 14: Life Below Water, by promoting the **sustainable use and protection of ocean ecosystems**. Through these assessments, IPI aims to support efforts in preserving marine habitats, enhancing the resilience of **aquatic ecosystems**, and fostering a deeper understanding of the factors that influence marine life. By engaging students in this **critical field research**, IPI empowers the next generation of environmental leaders to play an active role in **protecting and sustaining marine biodiversity for future generations**.

Fresh Water Ecosystems (Community Outreach): Collaboration Between IPI Garut and Local Communities

Institut Pendidikan Indonesia (IPI) Garut, in collaboration with **local communities**, organized a **community outreach initiative focused on the conservation of freshwater ecosystems in Gunung Cikuray, Garut**. The program aimed to raise awareness about the critical importance of preserving local water resources and the impact of human activities, such as land conversion for tourism, on freshwater ecosystems. Key environmental concerns, including changes in water flow patterns, water quality, and soil erosion, were discussed to highlight the need for responsible management of these vital resources.

As part of the outreach, IPI Garut and its partners installed signposts at key water source points and conducted research **to support ongoing conservation efforts**. This initiative contributes to SDG 14: Life Below Water, **focusing on the sustainable protection and restoration of aquatic ecosystems**.

By engaging local communities, the project encourages a culture of environmental responsibility, ensuring that freshwater resources are **preserved for future generations and contributing to the long-term health of the region's ecosystems**.

