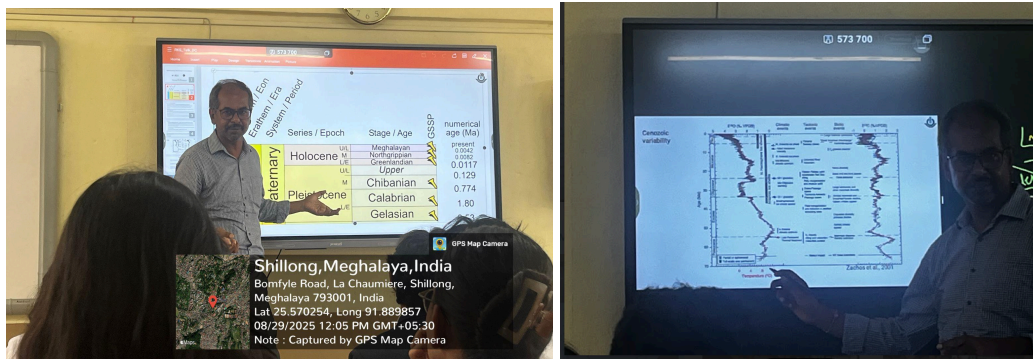




On 29th August 2025 The Department of Geology, St. Anthony's College Shillong organised a half day interactive guest lecture. Prof. Raj Kumar Singh, School of Earth, Ocean and Climate Sciences, IIT Bhubhaneshwar, gave a captivating lecture focused on Quaternary geology, highlighting climate change studies, the formation of ice sheets in the Arctic and Antarctic, and the significance of oxygen isotope records in understanding past climatic shifts. He underscored the importance of Quaternary geology owing to significant climatic shifts, particularly the development of ice in the Northern Hemisphere and the resulting glacial-interglacial cycles. He also addresses the geological importance of Meghalaya, including its K-T boundary and the Meghalayan age of the Holocene which is marked by a significant drought event. Prof. Singh elucidates the techniques of oxygen isotope analysis in ice cores and the speleothems employed to investigate major climate changes, emphasising the effects of these cycles on sea level variations and ocean circulation.



Finally, Prof. Singh provided valuable insights into career prospects in geology and stressed the interdisciplinary nature of geology, advocating a good foundation in mathematics, physics and chemistry. The advantages of pursuing higher education in geology, particularly at institutions like the IITs, were highlighted.