

**Name of Programme:** M. Sc. Applied Geology  
**Course Code:** GEO-605  
**Title of the Course:** Practical of Micropaleontology  
**No of Credits:** 01  
**Effective from AY:** 2023-24

<b>Prerequisites for the course:</b>	Students should have undergone M.Sc. Semester I and II.	
<b>Objective:</b>	Skill development of students in sample preparation techniques, systematic study of microfossils and exercises related biostratigraphy and environmental applications.	
<b>Content:</b>	<p>Extraction of microfossils from geologic formations and sediments using standard procedures for:</p> <ol style="list-style-type: none"> <li>Foraminifera</li> <li>Diatoms</li> <li>Silicoflagellates</li> <li>Radiolarians</li> </ol> <p>Study of important planktic foraminifera useful in surface water paleoceanography and oceanic biostratigraphy.  Sorting, identification, morphological description and classification of microfossils.  Quantification of microfossils of different species.</p>	30 hours
<b>Pedagogy:</b>	Practicals and exercises.	
<b>References/Readings</b>	<ol style="list-style-type: none"> <li>Armstrong, H. A., &amp; Brasier, M. D. (2005). <i>Microfossils</i>. 296 Malden.</li> <li>Bignot, G. (Ed.). (1985). <i>Elements of micropalaeontology</i>. Springer Science &amp; Business Media.</li> <li>Gross, M. G. (1977). <i>Oceanography: A view of the Earth</i>. Prentice Hall.</li> <li>Haq, B. U., &amp; Boersma, A. (Eds.). (1998). <i>Introduction to marine micropaleontology</i>. Elsevier.</li> <li>Sinha, D. K. (2007). <i>Micropaleontology: application in stratigraphy and paleoceanography</i>. Narosa Publishing House.</li> </ol>	
<b>Course outcome</b>	<ol style="list-style-type: none"> <li>Students will learn the technique of sample collection.</li> <li>They will be able to process and extract the samples.</li> <li>Analyze microfossils in qualitative and quantitative way.</li> </ol>	