

NORTH MAHARASHTRA UNIVERSITY

Pre-Ph. D. Course work

Subject: Geology

Title of the paper: Fundamentals in Geological research

Unit: I: Fundamentals of Fieldwork and methodology used in the sampling of Earth's material.

(No. of Contact Hours – 10 / Marks – 30)

Unit: II: Analytical Techniques employed in collection of data using various instruments.

(No. of Contact Hours – 10 / Marks – 30)

Unit: III: Computer applications in Geology

1. Basic statistical methods used in Geology
2. Introduction to various software used in Geo-scientific research.
3. Use of Internet for e-publications, literature survey and electronic communication.

(No. of Contact Hours – 10 / Marks – 30)

Unit: IV: Basics in Geo-scientific writing

1. Project/Thesis writing
2. Research paper writing
3. Presentation techniques

(No. of Contact Hours – 05/Marks – 10)

List of Reference Books:

- Manual of Field Geology by Compton R C .
- Field Geology by Lahee.
- Guide to field Geology by Mathur U B
- Statistical Data Analysis methods by Davis.
- Statistical Analysis in Geological Science by Miller and Khan
- Geo-scientific Writing – Geological Society of India Publication, Bangalore.
- Geo-Scientific Writing- A Guide to language and Composition –Srinivasa Rao Koneru , Geological Society of India Publication, Bangalore.
- Chemical analysis(Modern instrumentation and techniques. Francis Rousseau and A. Rousseau, John Wiley and sons.
- Modern methods in chemical analysis, Rescsock R L and Shields L D, John Wiley and sons