

6. Tucker, M.E. Sedimentary Petrology, 3rd Edn., Blackwell Science, 2001. 7. Sam Boggs Jr., Principles of Sedimentology & stratigraphy, 4th Ed, PEARSON publ, 2006 8. Sam Boggs Jr., Petrology of Sedimentary Rocks, 2nd Ed. Cambridge Univ press, 2009 9. Greensmith, J. T. Petrology of the Sedimentary Rocks, 7th Ed., UNWIN HYMAN 10. Lindholm, R. C. A Practical Approach to Sedimentology, ALLEN & UNWIN, 1987.	
GLC-107: Economic Geology	3-0-0 = 3 Credits
Introduction: scope of economic geology Mineral economics. Ore, tenor, gangue, resource, reserves Texture and structures of ore deposits Classification of ore deposits. Ore bearing fluids: type, nature, chemistry Physico-chemical controls of ore deposition Wall-rock alteration. Controls of ore localization. Distribution of ore deposits in relation to plate tectonic settings. Ore Deposits of India (Banded Iron Formations; Iron ore deposits; Manganese ore deposits; Polymetallic ore deposits: copper, lead, zinc; Chromite deposits; Laterite and Bauxite deposits: distribution in India and genesis; Asbestos deposits of India; Barite deposits; Gold in India; Diamond deposits.	
<u>List of Books</u> 1. Gilbert and Parks: Geology of Ore Deposits 2. Parks and McDiarmid: Ore Deposits 3. Bateman, A. M. : Economic Mineral Deposits 4. Hutchison: Economic Mineral Deposits 5. Atkinson: Economic Ore Deposits 6. Smirnov: Economic Ore Deposits 7. Jensen, M. L. and Bateman, A. M.,: Economic Mineral Deposits 8. Brown and Dey: The minerals and nuclear fuels of the Indian Subcontinent 9. Burma Roy, B.C., : Indian Mineral Resources: Industries and Economics 10. Deb: Industrial Minerals and Rocks of India 11. Gokhale and Rao: Ore Deposits of India 12. Wadia, D. N.,: Mineral wealth of India 13. Krishnaswami: India's Mineral Resources 14. Arndt N. & Ganino C.: Metals & Society. Springer. 15. Taylor R.: Ore Textures. Springer.	
GLC-108: Principles and Stratigraphy and Indian Geology	3-0-0 = 3 Credits
Introduction. Stratigraphic principles. Evolution of Stratigraphic column. Stratigraphic (Lithostratigraphic, Chronostratigraphic and Biostratigraphic) nomenclature. Correlation. Stratigraphy of India: Precambrian, Proterozoic, Palaeozoic, Mesozoic and Cenozoic stratigraphic successions. Gondwana stratigraphy. Quaternary stratigraphy.	
<u>List of Books :</u> 1. Naqvi, S.M. and Rogers, J.J.W.- Precambrian Geology of India, Oxford University Press. 2. Ramakrishnan, M. and Vaidyanadhan, R. - Geology of India vol. 1 & 2. Geol. Soc. India. 3. Krumbein, W. - Stratigraphy and Sedimentation. W. H. Freeman and Company 4. Prothero, D. - Sedimentary Geology: An introduction to sedimentary rocks and stratigraphy. Freeman & Co. 5. Boggs, S. - Principles of sedimentology and stratigraphy. Pearson Prentice Hall 6. Ravindra, K. - Fundamentals of Historical Geology and Stratigraphy of India. New Age International Limited, Publishers.	
GLC-121: Geological Field Mapping	0-0-2 = 2 Credits
The student will be taught the techniques of geological mapping, field data collection: recording the attitude of beds, foliation, lineation, joints and their analysis. Sampling of rocks, preparation of geological field report. The record of data will be maintained in a field-diary. This work will be carried out under the supervision of teachers who will accompany the students during the course of the field-traverse. There will be a viva-voce examination based on the field report.	
GLC-122: Geological Field Training	0-0-2 = 2 Credits