

B. Sc. Semester I
GEOLOGY - THEORY and PRACTICALS
Course-wise detail syllabus

GEMDC 114

Remote Sensing

Unit	Course details
Unit –1	Introduction To Remote Sensing: History and concepts. Advantages of Remote Sensing over Conventional surveys. Aerial versus Satellite Remote Sensing.
Unit –2	Electromagnetic Radiation: Physics of Remote Sensing - Energy sources, Radiation. Principles - Energy interaction with Atmosphere - (Atmospheric Windows, Scattering, Absorption). Energy interaction with earth surface features - (Absorption, Transmission, Scattering and Reflection).

Reference Books:

- 1) Sabbins, F.F. (1985): Remote Sensing – Principles and Applications. Freeman.
- 2) Pandey, S.N. (1987): Principles and Applications of Photogeology. John Willey.
- 3) Curran, P. (1985): Principles of Remote Sensing, Longman, London.
- 4) Reddy, M. A. (2008), Textbook of Remote Sensing and Geographical Information System. BS Publications.

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Remote Sensing Laboratory

Course details
<p>Study of the Remote Sensing images.</p> <p>Identification of various features on the satellite images.</p> <p>Distinguish various features based on tone, texture etc. of the satellite images.</p>