

**M. Sc. Geology – Course structure**  
**Under Choice Based Credit System (CBCS)**  
**Department of Geology**  
**Faculty of Earth Sciences, M.L. Sukhadia University**

**M. Sc. Second Year (Semester IV) 2020-21**  
**GEOLOGY**

Course S. No.	Course Code	Title of Course	L-T-P	No. of Credit	Max. Marks		Total
					Univ. Exam	Inter. Exam	
1	M4GEO01-CT11	Core Course –XI <b>Metamorphic Petrology</b>	3-1-0	4	80	20	100
2	M4GEO02-CT12	Core Course – XII <b>Mineral Exploration &amp; Mining Geology</b>	3-1-0	4	80	20	100
3	M4GEO03-ET03	Discipline Specific Elective Course – III <b>Environmental Geology and Disaster Management</b>	3-1-0	4	80	20	100
4	M4GEO04-ET04	Discipline Specific Elective Course – IV <b>Geochemistry</b>	3-1-0	4	80	20	100
5	M4GEO05-CP06	Core Course PR–VI <b>(Metamorphic &amp; Mineral Exploration and Mining Geology)</b>	0-0-8	4	80	20	100
6	M4GEO06-EP02	Elective PR– II <b>(Environmental Geology and Disaster Management &amp; Geochemistry)</b>	0-0-8	4	80	20	100
7	M4GEO07-SE02	Skill Course Elective <b>(Survey &amp; Leveling)</b>	0-0-4	2	80	20	100
TOTAL				24	560	140	700

**Checked and Approved**  
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(Dr. Maya Chaudhary)

**Checked and Approved**  
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(Dr. Harish Kapasya)

**Checked and Approved**  
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(Mr. Subhash Chandra Janagal)

**M. Sc. Second Year (Semester IV) 2020-21**  
**GEOLOGY**

**M4GEO07-SE02      Skill Course Elective - Survey & Leveling      No. of Credits : 2**

Introduction to Surveying: Objective of surveying and its importance.

Classification, principles of surveying

Linear measurements: Distance Measurement Chains, tapes, electronic distance measurement,

Plane Table Surveying Methods

Theodolite : Definition and terms, temporary adjustments, measurement from theodolite

Leveling instruments: Definition, different type of leveling instruments

Contouring : General, Contour Interval, Characteristics, Methods of contouring

Global Positioning System (GPS) : Theory, principles and applications.

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