

### Core and Elective Courses:

**Core Course:** The Core Course is to be compulsorily studied by a student as a core requirement to complete the Programme in a said discipline of study.

**Elective Courses:** Elective course is a course which can be chosen from a pool of papers.

### Semester-wise distribution of Core Courses (CC) and Elective Courses (EC) in Geology

Semester	Single Major		Major-Minor (Major)		Major-Minor (Minor)	
I	2 CC	08 Credits	2 CC	08 Credits	1 CC	04 Credits
II	2 CC	08	2 CC	08	1 CC	04
III	1 CC 3 EC	04 12	1 CC 1 EC	04 04	1 CC	04
IV	1 CC 3 EC	04 12	1 CC 1 EC	04 04	1 CC	04
V	1 CC 3 EC Project	04 12 02	1 CC 2 EC Project	04 08 02	1 CC	04
VI	1 CC 3 EC Project	04 12 02	1 CC 2 EC Project	04 08 02	1 CC	04
<b>Total</b>	<b>8 CC 12 EC Project</b>	<b>32 48 04 84 Credits</b>	<b>8 CC 6 EC Project</b>	<b>32 24 04 60 Credits</b>	<b>6 CC</b>	<b>24 Credits</b>

Each Course is of 4 Credits.

Theory = 3 Credits = 45 Contact hours

Practical = 1 Credit = 15 laboratory sessions = 30 Contact hours.

Project = 4 Credits

## Semester-wise Course titles offered in Geology

### COMPONENT A

SEM-ESTER	CORE COURSES		ELECTIVE COURSES				GEC/SEC
I	GEL-I.C-1 Fundamentals of Mineralogy	GEL-I.C-2A Earth's Dynamics and Tectonics	----	----	----	----	GEL-GEC-1: Environmental Geology
							GEL-GEC-2: Earth Dynamics and Landforms
II	GEL-II.C-3A Elementary Petrology	GEL-II.C-4 Principles of Stratigraphy and Paleontology	----	----	----	----	
III	GEL-III.C-5A Advanced Mineralogy and Geochemistry		GEL-III.E-1 Physical Geology	GEL-III.E-2 Groundwater and Hydrogeology	GEL-III.E-3A Ore Genesis	GEL-III.E-4 Marine Geology	GEL-SEC-1A: Gemmology
IV	GEL-IV.C-6 Structural Geology		GEL-IV.E-5A Engineering Geology	GEL-IV.E-6A Optical Mineralogy	GEL-IV.E-7 Natural Hazards and Management	GEL-IV.E-8 Geotectonics	GEL-IV.SEC-2: GIS for Beginners
V	GEL-V.C-7 Sedimentary Petrology	GEL-V.CP Core Project	GEL-V.E-9B Precambrian Stratigraphy of India	GEL-V.E-10 Petroleum Geology	GEL-V.E-11A Metamorphic Petrology	GEL-V.E-12 Remote Sensing and Digital Image Processing	
VI	GEL-VI.C-8A Igneous Petrology	GEL-VI.CP Core Project	GEL-VI.E-13B Phanerozoic Stratigraphy of India	GEL-VI.E-14B Rock Structures and Deformation Microstructures	GEL-VI.E-15A Surveying, Mapping and Field Geology	GEL-VI.E-16A Principles of Geophysical Exploration and Mining	

---