

## Course Structure

S. No.	Course Division	Credits
1.	Discipline Based Core Course (DBCC),	64
2.	Discipline Based Core Elective Courses (DBCE)	8
3.	Open Elective (Interdisciplinary) Courses (OBIC)	8
4.	Mandatory Elective Non-Credit Courses (MENC), (Course(s) equivalent to 4 credits)	0
	<b>Total Credits</b>	<b>80</b>

## Program Structure M.Sc. Geology

SEMESTER I (Total Credits = 20)			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Discipline Based Core Course	GEL81DC00104	Applied Geomorphology	3+0+1
Discipline Based Core Course	GEL81DC03604	Mineralogy and Mineral Optics	3+0+1
Discipline Based Core Course	GEL81DC03704	Structural Geology and Geotectonics	3+0+1
Discipline Based Core Course	GEL81DC03804	Igneous and Metamorphic Petrology	3+0+1
<b>Credits = 16</b>			
Open Elective Interdisciplinary Course		Elective Basket I	4 (For other departments)
Mandatory Elective Non-Credit Course		Elective Basket II	0
<b>Total Credits = 20</b>			

Elective Basket I (Open Elective Interdisciplinary Course)			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Open Elective Interdisciplinary Course	GEL81OE03904	Geo-informatics	3+1+0
Open Elective Interdisciplinary Course	GEL81OE00604	Oceanography	3+1+0
Open Elective Interdisciplinary	GEL81SW00704	Introduction to climate	3+1+0

Course		change SWAYAM approved Course	
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<b>Elective Basket II (Mandatory Elective Non-Credit Course)</b>			
<b>Nature of Course</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>Credit (L+T+P)</b>
Mandatory Elective Non-Credit Course	GEL81ME00700	Gemology	0

<b>SEMESTER II (Total Credits = 20)</b>			
<b>Nature of Course</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>Credit (L+T+P)</b>
Discipline Based Core Course	GEL82DC04004	Marine Geology and Micropaleontology	3+0+1
Discipline Based Core Course	GEL82DC04104	Stratigraphy and Paleontology	3+0+1
Discipline Based Core Course (Skill Based)	GEL82DC01004	Research Methodology	3+1+0
Discipline Based Core Course (Vocational)	GEL82DC04204	Advance Remote Sensing and Its applications in Geology	2+1+1
<b>Credits = 16</b>			
Discipline Based Course Elective		Elective Basket III	4
Mandatory Elective Non-Credit Course		Elective Basket IV	0
<b>Total Credits = 20</b>			

<b>Elective Basket III (Discipline Based Course Elective) (Any one)</b>			
<b>Nature of Course</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>Credit (L+T+P)</b>
Discipline Based Course Elective	GEL82DE04304	Geohazards and Disaster Risk Reduction	3+1+0
Discipline Based Course Elective	GEL82DE04404	Geophysics and Mineral Exploration	3+1+0

Discipline Based Course Elective	GEL82DE04504	Environmental and Engineering Geology	3+1+0
<b>Credits = 04</b>			

Elective Basket IV (Mandatory Elective Non-Credit Course)			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Mandatory Elective Non-Credit Course	GEL82ME01700	Sustainable Development Goals (SDGs) and role of Geology	0

SEMESTER III (Total Credits = 20)			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Discipline Based Core Course	GEL91DC02004	Sedimentology	3+0+1
Discipline Based Core Course	GEL91DC04602	Geological Field	0+0+2
Discipline Based Core Course	GEL91DC02104	Hydrogeology	3+0+1
Discipline Based Core Course	GEL91DC04704	Ore and Mining Geology	3+1+0
<b>Total Credit = 14</b>			
Discipline Based Core Elective (Any one)			
Discipline Based Core Elective	GEL91DE04802	Geochemistry and Isotope Geology	2+0+0
Discipline Based Core Elective	GEL91DE04902	Cryosphere and Climate change	2+0+0
Discipline Based Core Elective	GEL91SW05002	Earth Science for Civil Engineering/River Engineering SWAYAM approved Course	2+0+0
<b>Total Credits = 2</b>			
Open Elective Interdisciplinary Course	Elective Basket V		4

Mandatory Elective Non-Credit Course	Elective Basket VI	0
<b>Total Credits = 20</b>		

<b>Elective Basket V (Open Elective Interdisciplinary Course)</b>			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Open Elective Interdisciplinary Course	GEL91OE02604	Natural Hazard and Disaster Management	3+1+0

<b>Elective Basket VI (Mandatory Elective Non-Credit Course)</b>			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Mandatory Elective Non-Credit Course	GEL91ME02700	Geoheritages and Geoparks	0

<b>SEMESTER IV (Total Credits = 20)</b>			
Nature of Course	Course Code	Name of Course	Credit (L+T+P)
Discipline Based Core Course	GEL92DC05120	Dissertation	20
<b>Credits = 20</b>			