

Geology

(A) Major Core Courses

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1	Fundamentals of the Earth System	6	100
2.	II	MJC-2 (T)	Mineralogy and Crystallography (T)	4	100
3.	II	MJC-2 (P)	Mineralogy and Crystallography (P)	2	100
4.	III	MJC-3 (T)	Mineralogy and Optical Mineralogy (T)	3	100
5.	III	MJC-3 (P)	Mineralogy and Optical Mineralogy (P)	2	100
6.	III	MJC-4 (T)	Structural Geology (T)	3	100
7.	III	MJC-4 (P)	Structural Geology (P)	1	100
8.	IV	MJC-5	Geomorphology	5	100
9.	IV	MJC-6 (T)	Igneous Petrology (T)	3	100
10.	IV	MJC-6 (P)	Igneous Petrology (P)	2	100
11.	IV	MJC-7 (T)	Metamorphic Petrology (T)	3	100
12.	IV	MJC-7 (P)	Metamorphic Petrology (P)	2	100
13.	V	MJC-8 (T)	Sedimentology (T)	3	100
14.	V	MJC-8 (P)	Sedimentology (P)	2	100
15.	V	MJC-9 (T)	Stratigraphy (T)	3	100
16.	V	MJC-9 (P)	Stratigraphy (P)	2	100
17.	VI	MJC-10 (T)	Palaeontology (T)	3	100
18.	VI	MJC-10 (P)	Palaeontology (P)	1	100
19.	VI	MJC-11	Hydrogeology	5	100
20.	VI	MJC-12 (T)	Economic Geology (T)	3	100
21.	VI	MJC-12 (P)	Economic Geology (P)	2	100
22.	VII	MJC-13	Global Tectonics and Geodynamics	5	100
23.	VII	MJC-14	Research Methodology	5	100
25.	VII	MJC-15	Engineering Geology and Mineral Resources	6	100
26.	VIII	MJC-16 (T)	Environmental Geology and Geogenic disaster (T)	3	100
27.	VIII	MJC-16 (P)	Environmental Geology and Geogenic disaster (P)	1	100

Sub Total = 80

(B) Minor Courses to be offered by the Department for students of other Departments of Science

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1	Fundamentals of the Earth System	3	100
2.	II	MIC-2	Mineralogy and Crystallography	3	100
3.	III	MIC-3	Mineralogy and Optical Mineralogy	3	100
4.	IV	MIC-4	Structural Geology	3	100
5.	V	MIC-5	Geomorphology	3	100

6.	V	MIC-6	Igneous Petrology	3	100
7.	VI	MIC-7	Metamorphic Petrology	3	100
8.	VI	MIC-8	Sedimentology	3	100
9.	VII	MIC-9	Stratigraphy	4	100
10.	VIII	MIC-10	Palaeontology	4	100

Sub Total = 32

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

(C) Multidisciplinary Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	II	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	III	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	II	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	v	INT-1	Summer Internship	4	100

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total = 160 Credits

(G) Basket for Multidisciplinary Courses (MDC)

To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC)

See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC)

Course Structure common to all Programme

Semester-I

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 1	MJC-1	6-1-0	6	100
2	Minor Course 1	MIC-1	3-1-0	3	100
3	Multidisciplinary Course 1	MDC-1	3-1-0	3	100
4	MIL	AEC-1	2-1-0	2	100
5	Skill Enhancement Course	SEC-1	3-0-3	3	100
6	Value Added Course	VAC-1	3-0-3	3	100
Total Credit- 20					

Semester-II

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 2	MJC-2	6-1-0	6	100
2	Minor Course 2	MIC-2	3-1-0	3	100
3	Multidisciplinary Course 2	MDC-2	3-1-0	3	100
4	Environmental Science	AEC-2	2-1-0	2	100
5	Skill Enhancement Course	SEC-2	3-1-0	3	100
6	Value Added Course	VAC-2	3-0-3	3	100
Total Credit- 20					

Semester-III

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 3	MJC-3	5-1-0	5	100
2	Major Core 4	MJC-4	4-1-0	4	100
3	Minor Course 3	MIC-3	3-1-0	3	100
4	Multidisciplinary Course 3	MDC-3	3-1-0	3	100
5	Ability Enhancing Course (Course on Disaster Risk Management)	AEC-3	2-1-0	2	100
6	Skill Enhancement Course	SEC-3	3-1-0	3	100
Total Credit- 20					

Semester-IV

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 5	MJC-5	5-1-0	5	100
2	Major Core 6	MJC-6	5-1-0	5	100
3	Major Core 7	MJC-7	5-1-0	5	100
4	Minor Course 4	MIC-4	3-1-0	3	100

5	Ability Enhancing Course (Course on NCC/NSS, NGOs/Social Service/Scout & Guide/Sports)	AEC-4	2-1-0	2	100
TotalCredit- 20					

Semester –V

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 8	MJC-8	5-1-0	5	100
2	Major Core 9	MJC-9	5-1-0	5	100
3	Minor Course 5	MIC-5	3-1-0	3	100
4	Minor Course 6	MIC-6	3-1-0	3	100
5	Internship	INT-1	-	4	100
TotalCredit- 20					

Semester–VI

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 10	MJC-10	4-1-0	4	100
2	Major Core 11	MJC-11	5-1-0	5	100
3	Major Core 12	MJC-12	5-1-0	5	100
4	Minor Course 7	MIC-7	3-1-0	3	100
5	Minor Course 8	MIC-8	3-1-0	3	100
TotalCredit- 20					

Semester–VII

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 13	MJC-13	5-1-0	5	100
2	Major Core 14	MJC-14	5-1-0	5	100
3	Major Core 15	MJC-15	6-1-0	6	100
4	Minor Course 9	MIC-9	4-1-0	4	100
TotalCredit- 20					

Semester–VIII

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 16	MJC-16	4-1-0	4	100
2	Minor Course 10	MIC-10	4-1-0	4	100
3	Research Project /Dissertation	RP-1	-	12	
TotalCredit- 20					

- **Subject / Courses having 6, 5 & 4 credits may be split into theory and Practical where ever required with following credit and LTP.**

- For 6 Credit Course / Subject –**
 - Theory – 4-1-0, 4 Credit, 100 Marks**
 - Practical 0-0-4, 2 Credit, 100 Marks**
- For 5 Credit Course / Subject –**
 - Theory – 3-1-0, 3 Credit, 100 Marks**
 - Practical 0-0-4, 2 Credit, 100 Marks**
- For 4 Credit Course / Subject –**
 - Theory – 3-1-0, 3 Credit, 100 Marks**
 - Practical 0-0-2, 1 Credit, 100 Marks**

Abbreviation:

LTP: Lecture/Tutorial/Practical (number of classes per week)

MIL: Modern Indian

Type of the Course

Name of the Course

Credit

MJC :	Major Core Course	80
MIC :	Minor Core Course	32
MDC :	Multidisciplinary Course	09
AEC :	Ability Enhancement Course	08
SEC :	Skill Enhancement Course	09
VAC :	Value Added Course	06
INT :	Summer Internship	04
RP :	Research Project /Dissertation	12

Total= 160