

## **COURSE STRUCTURE**

KARNATAK UNIVERSITY, DHARWAD



## **SYLLABUS**

For

P.G. DEPARTMENT OF STUDIES IN

**Geology**

M.Sc. APPLIED GEOLOGY

Choice Based Credit System (CBCS)

(New Scheme)

With effect from

2011-12

**Theory Question Paper pattern for Semester Examinations of 2011-12 onwards**

M.Sc. \_\_\_\_\_ Semester Examination

Subject \_\_\_\_\_

Paper Title \_\_\_\_\_

Time: 3 hours

75

Max. Marks:

**SECTION – A**

4 X 4 = 16 marks

- QUE. 1 (a) \_\_\_\_\_ (Unit I)  
(b) \_\_\_\_\_ (Unit II)  
(c) \_\_\_\_\_ (Unit III)  
(d) \_\_\_\_\_ (Unit IV)

**SECTION – B**

6 X 4 = 24 marks

- QUE. 2 (a) \_\_\_\_\_ (Unit I)  
(b) \_\_\_\_\_ (Unit II)  
(c) \_\_\_\_\_ (Unit III)  
(d) \_\_\_\_\_ (Unit IV)

**SECTION – C**

QUE. 3

(a)

\_\_\_\_\_  
OR  
\_\_\_\_\_



(Unit I)

09 marks

(b)

\_\_\_\_\_  
OR  
\_\_\_\_\_



(Unit II)

09 marks

(c)

\_\_\_\_\_  
OR  
\_\_\_\_\_



(Unit III)

09 marks

(d)

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OR  
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(Unit IV)

08 marks

**KARNATAK UNIVERSITY, DHARWAD**  
**POST-GRADUATE DEPARTMENT OF STUDIES IN GEOLOGY**  
**Course Structure and Scheme of Examination**

**FIRST SEMESTER**

Description of Papers	Credits	No. of Hrs/ Week Theory / Practical	Duration of exam in Hrs Theory / Practical	Internal Assessment Marks Theory / Practical	Marks at the Exams	Total Marks
<b>Theory</b>						
CT AG.1.1 : Stratigraphy and Palaeontology	4	4	3	25	75	100

CTAG.1.2 : Mineralogy	4	4	3	25	75	100
CTAG.1.3:Geodynamics and Structural Geology	4	4	3	25	75	100
CTAG.1.4: Gemstones and Industrial Minerals	4	4	3	25	75	100
<b>Practical's</b>						
CPAG.1.5: Palaeontology (35) and Viva (05)	2	4	4	10	40	50
CPAG.1.6: Mineralogy (35) and Viva (05)	2	4	4	10	40	50
CPAG.1.7: Structural Geology (35) and Viva (05)	2	4	4	10	40	50
	<b>22</b>	<b>28</b>	<b>24</b>	<b>130</b>	<b>420</b>	<b>550</b>

## SECOND SEMESTER

Description of Papers	Credits	No. of Hrs/ Week Theory / Practical	Duration of exam in Hrs Theory / Practical	Internal Assessment Marks Theory / Practical	Marks at the Exams	Total Marks
<b>Theory</b>						
CTAG.2.1: Petrology	4	4	3	25	75	100
CTAG.2.2: Mining Geology	4	4	3	25	75	100

CTAG.2.3: Ore Geology, Indian Mineral Deposits and Energy Resources	4	4	3	25	75	100
ETAG.2.4: Earth Science – I (Elective)	4	4	3	25	75	100
<b>Practical's</b>						
CPAG.2.5: Petrology (35) and Viva (05)	2	4	4	10	40	50
CPAG.2.6: Ore Geology (35) and Viva (05)	2	4	4	10	40	50
CPAG.2.7 : Ore Reserve Estimation (35) and Viva (05)	2	4	4	10	40	50
	<b>22</b>	<b>28</b>	<b>24</b>	<b>130</b>	<b>420</b>	<b>550</b>

### THIRD SEMESTER

Description of Papers	Credits	No. of Hrs/ Week Theory / Practical	Duration of exam in Hrs Theory / Practical	Internal Assessment Marks Theory / Practical	Marks at the Exams	Total Marks
<b>Theory</b>						

CTAG.3.1: Geochemistry	4	4	3	25	75	100
CTAG.3.2:Hydrogeology	4	4	3	25	75	100
CTAG.3.3:Mineral Economics and Engineering Geology	4	4	3	25	75	100
ETAG.3.4: Earth Science-II (Elective)	4	4	3	25	75	100
<b>Practical's</b>						
CPAG.3.5: Geochemistry (35) and Viva (05)	2	4	4	10	40	50
CPAG.3.6:Hydrogeology (35) and Viva (05)	2	4	4	10	40	50
CPAG.3.7: Geostatistics and Computer Application (35) and Viva (05)	2	4	4	10	40	50
	<b>22</b>	<b>28</b>	<b>24</b>	<b>130</b>	<b>420</b>	<b>550</b>

#### FOURTH SEMESTER

Description of Papers	Credits	No. of Hrs/ Week Theory / Practical	Duration of exam in Hrs Theory / Practical	Internal Assessment Marks Theory / Practical	Marks at the Exams	Total Marks
<b>Theory</b>						
CTAG.4.1: Mineral Beneficiation and Environmental Geology	4	4	3	25	75	100
CTAG.4.2: Geochemical Exploration (40) and Geophysical Exploration (40)	4	4	3	25	75	100
CTAG.4.3: Photo geology and Remote Sensing	4	4	3	25	75	100
CTAGP.4.4: Project Work	6	4	Dissertation Evaluation 75 Marks	25	* Viva Voce 50 marks	150
<b>Practical's</b>						
CPAG.4.5: Mineral Beneficiation (35) and Viva (05)	2	4	4	10	40	50
CPAG.4.6: Exploration Geophysics (35) and Viva (05)	2	4	4	10	40	50
CPAG.4.7: Photogeology and Remote Sensing (35) and Viva (05)	2	4	4	10	40	50
	<b>26</b>	<b>28</b>	<b>21</b>	<b>130</b>	<b>395</b>	<b>600</b>