

**Scheme of Examination  
&  
Detailed Syllabus**

**Master of Arts  
(M.A. Geography)  
1<sup>st</sup> Semester**



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**AISECT UNIVERSITY**

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# AISECT UNIVERSITY, HAZARIBAG (JH)

## MASTER OF ARTS (GEOGRAPHY)

Duration : 2 Yrs

Eligibility : Graduation in Geography

### Scheme of Examination

COURSE STRUCTURE OF MA GEOGRAPHY I SEMESTER													
Subject Details			Main Examinations				Sessionals ***		Credit Distribution			Allotted Credits	
Subject Code	Subject Name	Total Marks	Major		Minor		Max Marks	Min Marks	L	T	P	Subject wise Distribution	
			Max Marks	Min Marks	Max Marks	Min Marks							
<b>Semester-I</b>													
<b>Theory Group</b>													
HMGE101	History of Geographical Thought	100	50	17	20	7	30	12	3	1	-	4	
HMGE102	Climatology	100	50	17	20	7	30	12	3	1	-	4	
HMGE103	Geomorphology	100	50	17	20	7	30	12	3	1	-	4	
			Term End Practical Exam				Lab Performance						
HMGE104	Practical Paper	100	50		17		50	17	-	-	2	2	
<b>Grand Total</b>		400											<b>16</b>

**Minimum Passing Marks are equivalent to Grade D in Individual Subjects**

**L- Lectures T- Tutorials P- Practicals**

**\*\*\*Sessionals Weightage – Attendance 50%, Four Class Tests/Assignments 50%.**

**Pattern :**

**Note:**

1. For passing the examination; the candidate that be required to secure at least 25% marks in University examination separately in the term-end Theory and Internal Assessment in each of the prescribed paper.
2. There will be an external examiner to evaluate the project report. The minimum passing marks for project work will be 50%.

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**SEMESTER – I**

**HMGE101 – HISTORY OF GEOGRAPHICAL THOUGHT**

**Unit 1:**

The field of Geography: Its place in the classification of sciences, geography as social science and natural science.

Selected concepts in the philosophy of geography: Logical Positivism, areal differentiation and spatial organization.

**Unit 2:**

Dualism in Geography: Systematic and Regional Geography, Physical and Human Geography, Determinism and Possibilism.

Laws, theories and models, the quantitative revolution, Behaviourism, post modernism.

**Unit 3:**

Regional Geography: Concept of region, Regionalization and the regional methods.

Historical development: Contributions of different scholars during Ancient, Medieval and Modern period.

**Unit 4:**

Geography in the 20 th century: Concept and methodological developments, Status of Indian geography.

Future of geography, Radical geography; Feminist Geography, geographical thought with reference to changing views on man-environment relationship. Geography and public policy

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## **Master of Arts (Geography)**

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#### **SEMESTER – I**

## **HMGE102 – CLIMATOLOGY**

### **Unit 1:**

Nature and scope of climatology and its relationship with meteorology, composition and structure of the atmosphere.

Insolation, heat balance of the earth, Greenhouse effect, vertical and horizontal distribution of temperature, local winds, jet streams, general circulation in the atmosphere.

### **Unit 2:**

Tropical, temperate and high latitudes weather system-concept of air mass and atmospheric disturbances. Cyclones-tropical and temperate. Stable and unstable atmosphere: environmental lapse rate, dry and wet adiabatic lapse rate and atmospheric stability.

Ocean-atmosphere interaction-El Nino, southern oscillation (ENSO) and La Nina. Monsoon winds, Norwesters.

### **Unit 3:**

Climatic classification of Koppen and Thornthwaite

Climate changes: Evidences, possible causes

Applied Climatology: Climate, Hydrology and Water Resources;

Urban climate and global environment change: The nature of the urban climates, Urban Heat Island (UHI), Impact of the urban climate on Global Environment Change (GEC).

### **Unit 4:**

Global warming, environmental impacts and society's response, Atmospheric effects of thunders, Thunderstorms and Droughts. Climate Impact Assessment.

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**SEMESTER – I**

**HMGE103 – GEOMORPHOLOGY**

**Unit 1:**

Nature and scope of geomorphology, fundamental concepts, geological structures and land forms.

Regional geomorphology of peninsular India, Ganga plains, Chotanagpur plateau and west coastal plains.

**Unit 2:**

Earth movements: Epeirogenic, Orogenic and Cymatogenic Earth movement, Isotasy, Plate Tectonics.

Seismicity: Vulcanicity, orogenic structures with reference to the evolution of Himalaya

**Unit 3:**

Exogenetic Processes: Concept of gradation, agents and processes of gradation, causes, types and classification of weathering.

Mass movement, erosional and depositional processes and resultant landforms, slope evolution, down wearing, parallel retreat.

**Unit 4:**

Dynamics of fluvial, glacial, Aeolian, marine and karst processes and resulting landforms.

Applied geomorphology, application geomorphic mapping, environmental geomorphology, geomorphic hazards.

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#### **SEMESTER – I**

### **HMGE104 – PRACTICAL PAPER**

The syllabus for practical is divided into two sections-Sec A and B.

The Practical examination including field work examination of six hours duration

#### **SECTION-A(IV-A)**

Marks: 50

Time: 3 Hrs

#### **Course contents:**

1	Importance of field instruments survey: scope and purpose, principal and applications of selected survey instruments, plane table resection, two point and three point and three point problems, tracing paper method.	:	15 Marks
2	Prismatic compass; open and closed traverse, elimination of error-Bowditch Method.	:	15 Marks
3	Viva-voce.	:	10 Marks
4	Practical Note Book	:	10 Marks

#### **Section-B(IV-B)**

Marks:50  
Hrs

Time:3

#### **FIELD WORK (PROJECT REPORT)-50**

**ALLOTTED BY DEPARTMENTAL COUNCIL (ANY PART OF JHARKHAND REGION)**

#### **Objectives:**

The main objective of the field work (Physical) to conduct an extensive survey of a continuous wider region and identify salient landforms, their genesis and their impact on human life, flora and fauna.

#### **Course contents:**

1. To trace the prominent features of the area to be surveyed, identify salient landforms feature of the selected area on a topographical sheet.

2. To identify the landforms on the surface while in the field. Also note the agents of erosion, transportation and deposition associated with the landforms.
3. To identify and classify the biodiversity in the area (flora & fauna)
4. To observe the relationship of various landforms, with land use, settlement structure and life style of people.
5. Based on observations of the above characteristics prepare a field survey report. The report needs to be supplemented with maps, sketches, photographs etc.