

**University of Rajasthan**  
**Jaipur**

**SYLLABUS**

**Three / Four Year Bachelor of Arts in Geography**  
**B. A. (UG 9104)**

**(2023-24)**

*Raj / Jay*  
Dy. Registrar  
(Academic)  
University of Rajasthan  
JAIPUR *Raj*

# Syllabus

## Three/ Four Year Bachelor of Arts in Geography

B. A. (UG 9104)

(2023-24)

### SEMESTER WISE PAPER TITLES WITH DETAILS

Three/ Four Year Bachelor of Arts in Geography									
S. No.	Level	Semester	Type	Title	Credits				Contact Hours
					L	T	P	Total	
1.	5	I	MJR	GEO-51T-105 Physical Geography-I	4	0	0	4	4
2.	5	I	MJR	GEO-51T-106 Geography of Rajasthan-I	4	0	0	4	4
3.	5	I	MJR	GEO-51P-107 Practical-I	0	0	4	4	8
4.	5	II	MJR	GEO-52T-108 Physical Geography-II	4	0	0	4	4
5.	5	II	MJR	GEO-52T-109 Geography of Rajasthan-II	4	0	0	4	4
6.	5	II	MJR	GEO-52P-110 Practical-II	0	0	4	4	8

*Raj / Jas*  
Dy. Registrar  
(Academic)  
University of Rajasthan  
JAIPUR *Raj*

## Syllabus

### GEO-51T-105- Physical Geography-I

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-51T-105	Physical Geography I	5	4
Types of the Course	Delivery type of the Course		
Major	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To attain knowledge in detail about physical geography and associated branches.		

Duration- 3 Hours

Max. Marks- 20+80

Min. Marks- 8+32

Pattern of Examination	Bifurcation of Marks
Part A	10 × 2= 20
Part B	15 × 4=60
<b>Total</b>	<b>80</b>

**\*Note:**

1. Internal assessment will be as per University Norms.
2. End Semester Examination question paper will comprise of two parts: Part A and Part B.
3. Part A will comprise of TWO questions consisting Map Work and Multiple-Choice Questions (MCQs)/ Short Answer type questions.
4. Part B will comprise of FOUR descriptive questions with Internal choice from each unit.
5. In all student will have to attempt total 6 questions, 2 questions from Part A and 4 questions from Part B.

## Unit – I

Definition, Scope & Development of Physical Geography. Origin of the Earth- The Big-Bang Hypothesis; The Interstellar Dust Hypothesis. Geological History of the Earth. Origin of the Continents & Oceans- Continental Drift Theory; Plate Tectonic Theory.

## Unit – II

Interior of the Earth. Earth Movements –Endogenetic & Exogenetic. Isostasy – views of Airy; Pratt & Holmes. Volcanoes & Earthquakes.

## Unit – III

Mountain Building Theories– Kobber & Holmes. Rocks– Classifications & Characteristics. Denudation- Erosion & Weathering; Cycle of Erosion– views of W.M. Davis & W. Penck. Drainage System & Pattern.

## Unit – IV

Erosional & Depositional Work and Topographies of River, Underground Water, Glaciers, Wind & Oceanic Waves.

### Recommended Readings:

- Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenozoic Landforms. New Delhi: Prentice-Hall of India.
- Bridges, E. M. (1990). World Geomorphology. Cambridge: Cambridge University Press.
- Christopherson, Robert W. (2011). Geo-systems: An Introduction to Physical Geography 8 Ed. England: Macmillan Publishing Company.
- Ernst, W.G. (2000). Earth systems: Process and Issues. Cambridge: Cambridge University Press.
- Gautam, A. (2010). Bhautik Bhugol. Meerut: Rastogi Publications.
- Kale, V. S. and Gupta, A. (2001). Introduction to Geomorphology. Hyderabad: Orient Longman.
- Selby, M.J. (2005). Earth's Changing Surface. United Kingdom: OUP.
- Singh, S. (2009). Bhautik Bhugol ka Swaroop. Allahabad: Prayag Pustak.
- Skinner, Brian J. and Stephen, C. (2000). The Dynamic Earth: An Introduction to physical Geology, John Wiley and Sons.
- Strahler, A.N. and Strahler, A.H. (2005). Modern Physical Geography. John Wiley & Sons. Revised edition.
- Thornbury, W. D. (1968). Principles of Geomorphology. Wiley.

### Course Learning Outcomes:

By the end of the course, students should be able to:

1. Identify the concepts of Origin of Earth and landforms.
2. Illustrate the different forces acting over the Earth.
3. Compare and analyze the different cycles of landform erosion and their processes.
4. Build competency and academic excellence for competitive exams.

## GEO- 51T-106- Geography of Rajasthan-I

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO- 51T-106	Geography of Rajasthan-I	5	4
<b>Types of the Course</b>	<b>Delivery type of the Course</b>		
<b>Major</b>	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
<b>Prerequisites</b>	Central Board of Secondary Education or Equivalent		
<b>Objectives of the Course</b>	To make students familiar with regional geography of Rajasthan.		

**Duration- 3 Hours**

**Max. Marks- 20+80**

**Min. Marks- 8+32**

Pattern of Examination	Bifurcation of Marks
Part A	$10 \times 2 = 20$
Part B	$15 \times 4 = 60$
<b>Total</b>	<b>80</b>

**\*Note:**

1. *Internal assessment will be as per University Norms.*
2. *End Semester Examination question paper will comprise of two parts: Part A and Part B.*
3. *Part A will comprise of TWO questions consisting Map Work and Multiple-Choice Questions (MCQs)/ Short Answer type questions.*
4. *Part B will comprise of FOUR descriptive questions with Internal choice from each unit.*
5. *In all student will have to attempt total 6 questions, 2 questions from Part A and 4 questions from Part B.*

*Raj (Tas)*  
**Dy. Registrar**  
(Academic)  
University of Rajasthan  
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## Unit – I

Introduction and post-independence integration of Rajasthan. Geological structure. Physiographic divisions. Climate: Factors, Classification-General, Koppen and Thorn thwaite.

## Unit-II

Drainage: Rivers and Lakes. Types and distribution of Soil, problems and conservation. Types and distribution of Natural vegetation, Biodiversity in Rajasthan. Wildlife, sanctuaries, reserved and protected areas, national parks; Wildlife Acts and Rules.

## Unit-III

Livestock: types and distribution. Major cereals (Wheat, Rice, Barley, Millet) and cash crops (Cotton, Oilseeds, Sugarcane and Tobacco). Agro-climatic regions. Sources of Irrigation- Wells, Tube-wells, Canals, Ponds.

## Unit-IV

Multi-purpose Projects- Indira Gandhi Canal Project, Chambal River Valley Project, Mahi Bajaj Sagar Project, Bisalpur Dam Project. Metallic (Iron, Copper, Zinc and Silver, Lead, Manganese, Tungsten) and Non-metallic resources (Salt, Mica, Limestone, Sandstone, Gypsum) and Precious Stones. Energy resources- Coal, Petroleum, Natural Gas, Solar energy, Wind energy, Biomass energy.

### Recommended Readings:

- Bhalla, L.R. (2010). Rajasthan ka Bhugol. Jaipur: RBD Publication.
- Gupta & Prakash. (1979). Environmental Analysis of Thar Desert. Dehradun: English Books Depot.
- Mishra, V.C. (1977). Geography of Rajasthan. New Delhi: NBT.
- Roonwal, M.L. (1977). Natural Resources of Rajasthan Vols. I & II. University of Jodhpur.
- Sharma, R.C. (1972). Settlement Geography of the India Desert. New Delhi: Korwar Brother.
- Sharma, R.C. (2000). Settlement Geography of the India Desert. New Delhi: Korwar Brother.
- Singh, R.L. (2000). India: A Regional Geography. Varanasi: National Geographical Society of India.

### Course Learning Outcomes:

By the end of the course, students should be able to:

1. Classify and understand the physiographic divisions of Rajasthan.
2. Discussion about the agricultural regions and contribution of multipurpose projects in Rajasthan.
3. List the major metallic, non-metallic resources and correlate with industrial development of the state.
4. Build competency and academic excellence about the competitive exams.

### GEO-51P- 107- Practical-I

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-51P- 107	Practical-I	5	4
<b>Types of the Course</b>	<b>Delivery type of the Course</b>		
<b>Major</b>	60 contact hrs- Laboratory lectures and field study including diagnostic and formative assessments during lecture hours		
<b>Prerequisites</b>	Central Board of Secondary Education or Equivalent		
<b>Objectives of the Course</b>	To make the students understand about the relief features through scale and relief representation techniques.		

**Duration- 4 Hours**

**Max. Marks- 20+80**

**Min. Marks- 8+32**

Pattern of Examination	Bifurcation of Marks	Time
Written Test	40	2 Hours
Field Survey and Viva-Voce	14+6	2 Hours
Record Work and Viva-Voce	14+6	

**\*Note-**

1. The students will have to prepare **B4 Size Record Book** which will be simultaneously checked by the Teacher in the class after teaching and evaluated during the examinations.
2. There will be 8 questions (2 questions from each unit) in written paper out of which student have to compulsorily attempt 1 question from each unit.
3. The student will have to prepare Survey Sheet **INDIVIDUALLY** during the examination.
4. Simple Calculator is permitted in practical examination.

#### Unit – I

Definition, Conversion of Scales. Types of Scale: Simple, Comparative, Diagonal and Vernier. Methods of Relief Representation: Hachure, Hill-shading, Bench mark, Spot- Height, Form- lines and Contours.

#### Unit – II

Representation of Relief features through Contours and description – Conical hill, Plateau, Ridge, Cliff, Escarpment, Gorge, Waterfall, Rapids, V-shaped valley, U- shaped valley and Hanging valley, Types of Slopes- Gentle, Steep, Uniform, Concave, Convex, Undulating and Terraced; Lake, Caldera, Spur, Ox-Bow Lake.

*Rj/Tas*  
 Dy. Registrar  
 (Academic)  
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### Unit – III

Definition and Types of Profiles: Serial, Superimposed, Projected and Composite. Weather instruments with description and diagrams, Weather Symbols, Interpretation of Indian daily Weather maps (July and January).

### Unit – IV

Surveying: Meaning, Classification and Significance. Chain and Tape Surveying: Open Traverse and Tie-line.

#### Recommended Readings:

- Monk house, F. J. and Wilkinson, H. R. (1973). Maps and Diagrams. London: Methuen.
- Rhind, D. W. and Taylor, D. R. F. (2000). Cartography: Past, Present and Future. International Cartographic Association.
- Robinson, A. H., (2009). Elements of Cartography. New York: John Wiley and Sons.
- Robinson, A.H. (2000). Elements of Cartography. U.S.A.: John Wiley & Sons.
- Sarkar, A. K. (2005). Practical Geography: A Systematic Approach. Calcutta: Oriental Longman.
- Sharma, J. P. (2010). Prayogik Bhugol. Meerut: Rastogi Publishers.
- Singh, R.L. and Dutt, P.K. (2010). Elements of Practical Geography. New Delhi: Kalyani Publishers.

#### Course Learning Outcomes:

By the end of the course, students should be able to:

1. To make students aware about the measurements and representative distances.
2. To develop skills and competency regarding area analysis and map making with relief features.

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**Dy. Registrar**  
(Academic)  
University of Rajasthan  
JAIPUR *QA*



## Semester II

(2023-24)

### GEO-52T-108- Physical Geography-II

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-52T-108	Physical Geography-II	5	4
Types of the Course	Delivery type of the Course		
Major	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To attain knowledge in detail about climatology and oceanography.		

Duration- 3 Hours

Max. Marks- 20+80

Min. Marks- 8+32

Pattern of Examination	Bifurcation of Marks
Part A	10 × 2= 20
Part B	15 × 4=60
<b>Total</b>	<b>80</b>

**\*Note:**

1. Internal assessment will be as per University Norms.
2. End Semester Examination question paper will comprise of two parts: Part A and Part B.
3. Part A will comprise of TWO questions consisting Map Work and Multiple-Choice Questions (MCQs)/ Short Answer type questions.
4. Part B will comprise of FOUR descriptive questions with Internal choice from each unit.
5. In all student will have to attempt total 6 questions, 2 questions from Part A and 4 questions from Part B.

## Unit – I

Composition & Structure of the Atmosphere. Insolation & Heat budget of the Earth. Horizontal and Vertical distribution of Atmospheric Temperature, Inversion of Temperature. Atmosphere Pressure, Pressure belts & Planetary winds.

## Unit – II

Mechanism of Indian monsoon and jet streams. Classification of Clouds and Precipitation. Types of Air Masses, Fronts & Cyclones. Classification of World Climate - Kopen and Thorthwaite, General climatic classification.

## Unit – III

Definition, nature and Scope of Oceanography, Hydrological Cycle. Surface Configuration of Pacific, Atlantic and Indian Ocean's bottom. Horizontal and Vertical distribution of Oceanic Temperature and Salinity.

## Unit – IV

Oceanic Movements- Tides, Waves and Oceanic Currents. Coral Reefs. Oceanic Deposits.

### Recommended Readings:

- Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenozoic Landforms. New Delhi: Prentice-Hall of India.
- Christopherson, Robert W. (2011). Geo systems: An Introduction to Physical Geography 8 Ed. England: Macmillan Publishing Company.
- Ernst, W.G. (2000). Earth systems: Process and Issues. Cambridge: Cambridge University Press.
- Gautam, A. (2010). Bhautik Bhugol. Meerut: Rastogi Publications.
- Kale, V and Gupta, A. (2001). Elements of Geomorphology. Calcutta: Oxford University Press.
- Kale, V. S. and Gupta, A. (2001). Introduction to Geomorphology. Hyderabad: Orient Longman.
- Selby, M.J. (2005). Earth's Changing Surface. United Kingdom: OUP.
- Singh, S. (2009). Bhautik Bhugol ka Swarup. Allahabad: Prayag Pustak.
- Skinner, Brian J. and Stephen, C. (2000). The Dynamic Earth: An Introduction to physical Geology, John Wiley and Sons.
- Strahler, A.N. and Strahler, A.H. (2005). Modern Physical Geography. John Wiley & Sons. Revised edition.
- Thornbury, W. D. (1968). Principles of Geomorphology. Wiley.

### Course Learning Outcomes:

By the end of the course, students should be able to:

1. Identify the concepts of Origin of Earth and landforms
2. Illustrate the different forces acting over the Earth.
3. Compare and analyze the different cycles of landform erosion and their processes
4. Build competency and academic excellence for competitive exams

## GEO-52T-109- Geography of Rajasthan-II

Duration- 3 Hours

Max. Marks- 20+80

Min. Marks- 8+32

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-52T-109	Geography of Rajasthan-II	5	4
Types of the Course	Delivery type of the Course		
Major	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To make students familiar with regional geography of Rajasthan.		

Duration- 3 Hours

Max. Marks- 20+80

Min. Marks- 8+32

Pattern of Examination	Bifurcation of Marks
Part A	10 × 2= 20
Part B	15 × 4=60
<b>Total</b>	<b>80</b>

*\*Note:*

1. *Internal assessment will be as per University Norms.*
2. *End Semester Examination question paper will comprise of two parts: Part A and Part B.*
3. *Part A will comprise of TWO questions consisting Map Work and Multiple-Choice Questions (MCQs)/ Short Answer type questions.*
4. *Part B will comprise of FOUR descriptive questions with Internal choice from each unit.*
5. *In all student will have to attempt total 6 questions, 2 questions from Part A and 4 questions from Part B.*

### Unit – I

Industries: Cement, Marble, Copper, Textile, Sugar, Agro-chemical and Cottage industries. Schemes and Policies of Industrial development- Rajasthan Financial Corporation (RFC), RIICO, SEZ. Transport Development: Road, Rail and Air. Trade: Import and Export, Inland Container Dry Ports.

## Unit-II

Factors affecting Population; Size, Growth, Density and Distribution of Population. Sex-ratio, Literacy, Rural-Urban Distribution, Occupational Structure, Scheduled Caste and Scheduled Tribes Distribution. Urbanization, National Population Policy 2000, Problems of Population. Study of Bhil, Meena, Garasia, Saharia and Damor Tribes.

## Unit-III

Land Degradation and Desertification, Wastelands and Ravines. Drought and Famine- types and mitigation. Desert Development Programme, Aravali Hill Development Programme, Mukhyamantri Jal Swavlamban Yojana (MJSY). Tribal Development Programme, Dairy Development Programme, Tourism Development Programmes

## Unit-IV

Tourism and Cultural Heritage: Types, Circuits and Problems, Rajasthan Tourism Policy 2020. Human Settlements- Types and Patterns. Building Materials and House Types. Master Development Plan of Jaipur City.

### Recommended Readings:

- Bhalla, L.R. (2010). Rajasthan ka Bhugol. Jaipur: RBD Publication.
- Gupta & Prakash. (1979). Environmental Analysis of Thar Desert. Dehradun: English BooksDepot.
- Mishra, V.C. (1977). Geography of Rajasthan. New Delhi: NBT.
- Roonwal, M.L. (1977). Natural Resources of Rajasthan Vols. I & II. University of Jodhpur.
- Sharma, R.C. (1972). Settlement Geography of the India Desert. New Delhi: Korwar Brother.
- Sharma, R.C. (2000). Settlement Geography of the India Desert. New Delhi: Korwar Brother.
- Singh, R.L. (2000). India: A Regional Geography. Varanasi: National Geographical Society of India.

### Course Learning Outcomes:

By the end of the course, students should be able to:

1. Classify and understand the physiographic divisions of Rajasthan.
2. Discussion about the agricultural regions and contribution of multipurpose projects in Rajasthan.
3. List the major metallic, non-metallic resources and correlate with industrial development of the state.
4. Build competency and academic excellence about the competitive exams.

**GEO-52P-110- Practical II**

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-52P-110	Practical II	5	4
Types of the Course	Delivery type of the Course		
Major	60 contact hrs- Laboratory lectures and field study including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Board of Secondary Education or Equivalent		
Objectives of the Course	To attain the knowledge about the geographical data representation with the help of cartographical skills.		

**Duration- 4 Hours**

**Max. Marks- 20+80**

**Min. Marks- 8+32**

Pattern of Examination	Bifurcation of Marks	Time
Written Test	40	2 Hours
Field Survey and Viva-Voce	14+6	2 Hours
Record Work and Viva-Voce	14+6	

**\*Note-**

1. The students will have to prepare **B4 Size Record Book** which will be simultaneously checked by the Teacher in the class after teaching and evaluated during the examinations.
2. There will be 8 questions (2 questions from each unit) in written paper out of which student have to compulsorily attempt 1 question from each unit.
3. The student will have to prepare Survey Sheet **INIVIDUALLY** during the examination.
4. Simple Calculator is permitted in practical examination.

**Unit I**

Graphs: Hythergraph, Climograph, Climatograph, Water budget graph, Wind rose, Line, Bar, Combined Bar and Line with climatic data.

**Unit II**

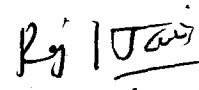
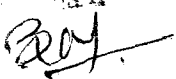
Enlargement & Reduction (Square and Triangle method); Combination of Maps and measurements of area.

**Unit III**

Topographical Maps: Identification and description of physical and cultural features of any Toposheet of Rajasthan State.

**Unit IV**

Chain and Tape Surveying: Closed Traverse.

  
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### Recommended Readings:

- Mishra, R.P & Ramesh. (1986). A Fundamentals of Cartography. New Delhi: McMillan Co.
- Monkhouse, F. J. and Wilkinson, H. R. (1973). Maps and Diagrams. London: Methuen.
- Rhind, D. W. and Taylor, D. R. F. (2000). Cartography: Past, Present and Future. International Cartographic Association.
- Robinson, A. H., (2009). Elements of Cartography. New York: John Wiley and Sons.
- Robinson, A.H. (2000). Elements of Cartography. U.S.A.: John Wiley & Sons.
- Sarkar, A. K. (2005). Practical Geography: A Systematic Approach. Calcutta: Oriental Longman.
- Sharma, J. P. (2010). Prayogic Bhugol. Meerut: Rastogi Publishers.
- Singh, R.L. and Dutt, P.K. (2010). Elements of Practical Geography. New Delhi: Kalyani Publishers.

### Course Learning Outcomes:

By the end of the course, students should be able to:

- Develop skills and competency regarding statistical analysis and representation of geographical data.
- Understand about the weather/ various climatic conditions.

*P. Jais*  
Dy. Registrar  
(Academic)  
University of Rajasthan  
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