

Raj Rishi Bhartrihari Matsya University, Alwar



Syllabus

Three Years / Four Years U. G. Program in
Arts

B.A. (Hons.)

Semester – I & II

Subject :- Geography

EXAMINATION 2023-24

Raj Rishi Bhartrihari Matsya University, Alwar

Syllabus

B.A. (Hons.) Geography

Semester – I & II

EXAMINATION 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-T – Physical Geography	4	0	0	4	4
2.	5	I	MJR	Geo-T – Human Geography	4	0	0	4	4
3.	5	I	MJR	Geo-PR – Practical	0	0	4	4	8
4.	5	II	MJR	Geo-T – Geography of Rajasthan	4	0	0	4	4
5.	5	II	MJR	Geo-T – Economic Geography	4	0	0	4	4
6.	5	II	MJR	Geo-PR – Practical	0	0	4	4	8

Dr. J. K. Singh

Feb/24

Dr. J. K. Singh

21/2/24

GEO-51T-105- Physical Geography

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-51T-105	Physical Geography	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

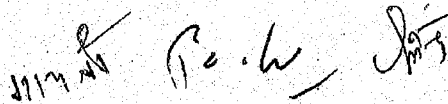
Max. Marks- 20+80

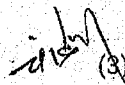
Min. Marks- 8+32

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

***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.





Semester-I
PHYSICAL BASIS OF GEOGRAPHY

Note :-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of which is 10 +10 = 20 marks.

The main examination will have to be conducted as per the instructions of the university which is of 80 marks. The paper consists of two parts.

Part-I: It is of 20 marks and has 10 compulsory very short answer type questions. A total of 10 questions will be given in this part from all the units. Each question is of 2 marks.

Part-II: It is of 60 marks and a total of 08 questions will be given in the paper with 02 questions from each unit with internal option, out of which a total of 04 essay questions will have to be solved by selecting one question from each unit. Each question is of 15 marks.

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

Unit-II

Mountain Building Theories- Kober & Holmes. Rocks- Classifications & Characteristics. Denudation- Erosion & Weathering; Cycle of Erosion views of W.M. Davis & W. Penck. Drainage System & Pattern. Erosional & Depositional Work and Topographies of River, Underground Water, Glaciers, Wind & Oceanic Waves.

Unit-III

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

Unit-IV

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

Sumit Kishor Joshi
(4)
Sumit

Suggested Books:

1. Strahler, A.H. : Elements of Physical Geography.
2. Wooldridge, S.W.: The Physical Basis of Geography, Logman's Green & Co. London 1959.
3. Mathur. I.R. ; Climatology, Mc. Graw Hill, New York.
4. Banerjee, H.C. & D.S. :MosamVigyan, Rajasthan Hindi Granth Academy Jaipur.
5. Gerald, S. : General Oceanography — An Introduction, John Willey & Sons, New York.
6. Finch & Trewarths :Elements of Physical Geography.
7. Negi : Physical Geography.
8. Sharma. R.C. : Oceanography for Geographers, Chaitanya Publishers, Allahabad.
9. सविन्द्र सिंह : भौतिक भूगोल-वसुन्धरा प्रकाशन, गोरखपुर।
10. वी.एस. चौहान एवं अलका गौतम : भौतिक भूगोल-रस्तोगी, प्रकाशन मेरठ।
11. सी.बी. मामोरिया एवं रतन जोषी : भौतिक भूगोल, साहित्य भवन पब्लिकेशन, आगरा।
12. चौहान वी.एस. व गौतम, ए. 2005 भौतिक भूगोल(जीवनमण्डल सहित) रस्तोगी पब्लिकेशन, मेरठ।
13. देयाल पी. 2012 भौतिक भूगोल। राजेश पब्लिकेशन, नई दिल्ली।
14. गौतम, अलका, 2012 भौतिक भूगोल। रस्तोगी पब्लिकेशन, मेरठ।
15. Husain, M. 2001, Fundamentals of Physical Geography. Rawat Publication, Jaipur
16. Khullar, D.R: 2012: Physical Geography. Kalyani Publishers, New Delhi
17. सिंह, सविन्द्र, 2011 : भौतिक भूगोल का स्वरूप, प्रयाग पुस्तक भवन, इलाहाबाद।
18. शर्मा, एचएस, शर्मा एम.एल. एण्ड मिश्रा आर.एन. 2006 भौतिक भूगोल, पंचशील प्रकाशन, जयपुर।

सविन्द्र सिंह
अलका गौतम

GEO - 51T106 - Human Geography

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO- 51T-106	Geography of HUMAN GEOGRAPHY	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 HUMAN GEOGRAPHY		

Duration- 3 Hours

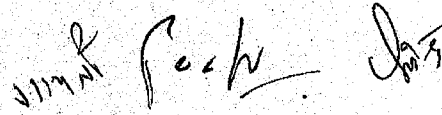
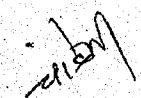
Max. Marks- 20+80

Min. Marks- 8+32

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

*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.


 (6)


Semester - I HUMAN GEOGRAPHY

Note :-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of which is 10 + 10 = 20 marks.

The main examination will have to be conducted as per the instructions of the university which is of 80 marks. The paper consists of two parts.

Part-I: It is of 20 marks and has 10 compulsory very short answer type questions. A total of 10 questions will be given in this part from all the units. Each question is of 2 marks.

Part-II: It is of 60 marks and a total of 08 questions will be given in the paper with 02 questions from each unit with internal option, out of which a total of 04 essay questions will have to be solved by selecting one question from each unit. Each question is of 15 marks.

UNIT - I

Introduction of Human Geography: Meaning, Definition, Nature, Scope and importance, Branches of Human Geography and its relation with other Social Sciences, Principles of Human Geography, Essential Elements of Human Geography: Brunhes and Huntington. Approaches to Human Geography: Environmental Determinism, Possibilism, Neo Determinism, Contribution of various scholars; Fredrick Ratzel, Miss Ellen Sample, Vidal de la Blache, Huntington.

UNIT - II

Human races: evolution and migration, Factors, Types and Consequences of Migration, Griffith Taylor's Migration Theory, zone-strata theory, classification of races: types, characteristics and distribution. Human races in India. Cultural regions; Race (Griffith Taylor's Classification)

UNIT - III

Tribes of the world: Eskimos, Bushman, Pygmy, Masai, ^{Bedouins} ~~Bedawins~~ and Kirghiz. Religious and Linguistics composition of World Population. Tribes in India: Bhils, Nagas, Santhal, Gond, Gujjar of Jammu and Kashmir and Toda. ~~Their~~ Their Social and Economic activities and adaptation in modern society. Population growth and theories; Distribution and Density of world population. Migration of Population: causes, types and impacts, Population regions and Population. Policies in India. Problems of overpopulation in India and its remedial measures.

UNIT - IV

Rural settlements, factors affecting development of Rural Settlement, Types and Pattern of Rural settlements, Building materials and House types. Rural Development. Christallers's Central Place Theory, Trends and Patterns of Urbanisation of the World. Settlements- Types and Patterns. process of Urbanization, Urban problems in India, Impact of human activities on environment.

11/12/2016
R. K. Jais
R. K. Jais

Suggested Books:

1. Bergwan, Edward E :Humna Geography; Culture, Connection and Land Scape, Prentice-Hall, New Jersey, 1995.
2. Carr, M : Patterns, Process and change in Human Geography, McMillan Education London, 1987.
3. Fellman, J.L. : Human Geography- Landscapes of Human Activities. Brown and Benchmark Pub., U.S.A. 1997.
4. De Blij H.J. : Human Geography, Culture, Society and Space, John Wiley, New York, 1996.
5. Dobhrs, F.E. and Summners, L. W. (eds.) 1967: Introduction to Geography: Thomas Crowell Co., New York.
6. Dear, M.J. and Flusty, S. (ed.) 2002: The spaces of Post modernity, Reading in Human Geography. BlackWell Publishers Ltd., Oxford.
7. Relimen, Getis and Getis. J. 1998: Human Geography-Landscape of human activities-Longman-London.
8. Husain, M. 2012: Human Geography. Rawat Publications, Jaipur
9. Leong, G.C. and Morgan, E.C. 1982: Human and Economic Geography. Oxford University Press, Oxford 2nd Edition.
10. कौशिकक, एस.डी. 2012 : मानव भूगोल, रस्तोगी पब्लिकेशन्स, मेरठ।
11. हारून, एम, 2006 : संसाधन भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।
12. कौशिकक : मानव भूगोल के सरल सिद्धान्त रस्तोगी एण्ड कम्पनी, मेरठ।
13. विश्वनाथ द्विवेदी एण्ड कनोजिया : मानव भूगोल के सिद्धान्त, किताब महल, इलाहाबाद।
14. जोशी रतन : मानव एवं पर्यावरण, साहित्य भवन पब्लिकेशन, आगरा।
15. कास्वॉ- मानव एवं पर्यावरण, मलिक प्रकाशन, जयपुर।

मन्तु फो ह . JKS
चिह्न

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
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 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.

(9)

11/7/21
 11/7/21
 11/7/21

Semester - I Practical

Note :-

As per the instructions of Rajrishi Bhartrihari Matsya University, Alwar, all the colleges will complete mid-term exam and assignment work for internal assessment, the mark weightage of which is 10+10= 20 marks.

The main practical examination will have to be conducted by an external examiner appointed by the university, which is of 80 marks.

There shall be 8 questions in written paper in 02 questions will be given from each unit. Candidates are required to answer a total of 4 questions, selecting one question from each unit. Each question is of 10 marks. Each practical batch of 30 students will be allotted 4 hours of teaching per week for practicals.

UNIT - I

Definition and types of scale: simple, comparative, diagonal. Graph: line graph, bar graph, combined line and bar graph.

UNIT - II

Study of Topographical sheets — Scheme of Indian topo-sheets. Interpretation of a hilly and a plain area of India in respects of relief, drainage, Human settlement, Transport & Communication Pattern.

UNIT - III

Climatic maps and diagrams — isopleth Maps (Isobar, Isotherms and Isohyets maps,) Simple and compound wind rose, climograph, hythergraph and climatograph, study & interpretation of weather maps of January & July months.

UNIT - IV

Surveying: Meaning, Classification and Significance, Applicability of Chain Survey, Chain Survey Tools, Factors Affecting Survey Station Selection, Line Types in Chain Survey, Offsets in Chain Survey, Chain & Tape Surveying: Open & Closed Traverse, Tie-line, Chain Survey Procedures. It's Problems and Solutions.

Recommended Readings:

1. Monkhouse, F. J. and Wilkinson, F.J. 1985: Maps and Diagrams. Methuen, London
2. Mahmood, A 1998 : Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi (fourth revised edition).
3. Raisz, E. 1962: General Cartography. John Wiley and Sons, New York. 5th edition.
4. Singh R.L. and Singh, Rana, P.B., 1991, Elements of Practical Geography. Kalayani Publishes, New Delhi.
5. Sarkar, A.K. 1997 : Practical Geography : A Systematic Approach. Orient Longman, Kolkata.
6. Singh, L.R. 2006 : Fundamentals of Practical Geogoraphy. Sharda Pustak Bhawan, Allahabad.
7. Venkartrameiah, C, 1997 : A Text Book of Surveying. University Press, Hyderabad.
8. शर्मा, जे.पी. 2011 :- प्रयोगात्मक भूगोल की रूपरेखा। रस्तोगी पब्लिकेशन्स, मेरठ।
9. डॉ. आर.एन.मिश्रा, डॉ. पी.के.शर्मा, प्रायोगिक भूगोल, रावत पब्लिकेशन्स, जयपुर।

B.A. (Hons) 2023-24
Semester I
Geo-T- Geography of RAJASTHAN

CODE OF COURSE	TITLE OF THE COURSE	LEVEL OF THE COURSE	CREDIT OF THE COURSE
GEO -T-107	GEOGRAPHY of RAJASTHAN	5	4
TYPE OF THE COURSE	DELIVERY TYPE OF THE COURSE		
MAJOR	LECTURES, 60 LECTURES INCLUDING DIAGNOSTIC & FORMATIVE ASSESSMENT DURING LECTURES HOURS		
PREREQUISITES	CENTRAL BOARD OF SECONDARY EDUCATION OR EQUIVALENT		
OBJECTIVE OF THE COURSE	To provide an extensive study of Rajasthan and numerous aspects of its natural as well as cultural landscapes.		

MAX MARKS- 20+80

MIN MARKS- 8+32

DURATION- 3 HOURS

PATTERN OF EXAMINATION	BIFURCATION OF MARKS
Part A	10×2 = 20
Part B	15×4 = 60
Total	80

NOTE:-

1. Internal assessment will be as per University Norms.
2. End semester examination question paper will comprise of two parts: Part A & Part B
3. Part A will comprise 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 students will have attempt total six questions, two questions from Part A and four questions from Part B

11/11/24

Tejashwari
Singh

RajRishiBhartrihariMatsya University, Alwar

Syllabus

B.A. (Hons)

Examination 2023-24

Semester-II

PAPER-III: GEOGRAPHY OF RAJASTHAN

3hr.duration

Max.Marks80

UNIT - I

Rajasthan : Location; Physiographic Regions; Geological structure; Climate and Climatic regions: Drainage system and lakes; soil types and regions, erosion and conservation; Vegetation — types and distribution. Land utilization in Rajasthan. Agriculture-types and characteristics, production and distribution of food and commercial crops; Cropping pattern and Agro-climatic zones

UNIT - II

Importance and sources of irrigation; Major irrigation projects-Chambal, Mahi and Indira Gandhi Canal Project (I.G.C.P.)and Bisalpur dam project. Live Stock products and Dairy Development programs; Biodiversity and Wildlife; Waste-land and desert development programs. Distribution and production of minerals — Metallic and Non-metallic; Power Resources — Coal, Petroleum and Natural gas, hydro based and non-conventional power resources.

UNIT - III

Industrial Development : Classification of Industries; Development, distribution, production and locational analysis of cotton textile. Cement and stone industries; Cultural heritage and Tourism industry. Population : Distribution and density; Population structure- age and sex ratio, urban and rural; literacy and occupational population; Population growth since independence, causes, problems and solutions. Social and Cultural status of major tribes-Bhil, Garasiya, Meena, Saharia. Means of transportation — roads, railway network and highways.

UNIT - IV

Detailed study of Marusthali, Aravalli, Hadoti and Eastern Plain regions with following heads : Physical environment, social and cultural environment and economic development. Concept of Human Development — Major indicators. H.D.I. (Human Development Index) of Rajasthan in reference to other states of India. Status of Women in Rajasthan — changing aspects of demographic, social, economic, health and nutrition.

Suggested Books :

1. चौहान वी.एस.राजस्थानकाभूगोल, विज्ञानप्रकाशन, जोधपुर।
2. भल्ला एल. आर, राजस्थानकाभूगोल, कुलदीपप्रकाशन, अजमेर।
3. एच.एम.सक्सेना, राजस्थानकाभूगोल, राजस्थानहिन्दीग्रन्थअकादमी, जयपुर।
4. दिनेशचन्द्र शर्मा व पुष्पा शर्मा, राजस्थानआजतक।
5. एच.एम.शर्मारजस्थानकाभूगोल, पंचशीलप्रकाशन, जयपुर।
6. Mishra, V.C.: Geography of Rajasthan, N.B.T.Delhi.
7. Sharma, H.S. & Sharma, M.L. : Geographical Frcts of Rajasthan.
8. P.K.Sharma&PreetiMishra : Geography of Rajasthan Pareek Publication, Jaipur

गाम

Handwritten signature/initials

B.A. (Hons) 2023-24
Semester - II
 Geo-T- Economic-Geography

CODE OF COURSE	TITLE OF THE COURSE	LEVEL OF THE COURSE	CREDIT OF THE COURSE
GEO-T	ECONOMIC GEOGRAPHY	5	4
TYPE OF THE COURSE	DELIVERY TYPE OF THE COURSE		
MAJOR	LECTURES, 60 LECTURES INCLUDING DIAGNOSTIC & FORMATIVE ASSESSMENT DURING LECTURE HOURS		
PREREQUISITES	CENTRAL BOARD OF SECONDARY EDUCATION OR EQUIVALENT		
OBJECTIVE OF THE COURSE	To provide understanding of all aspects of economic geography - from global to local level.		

MAX MARKS- 20+80

MIN MARKS- 8+32

DURATION- 3 HOURS

PATTERN OF EXAMINATION	BIFARCATION OF MARKS
Part A	10×2 = 20
Part B	15×4 = 60
Total	80

NOTE:-

1. Internal assessment will be as per University Norms.
2. **End semester** examination question paper will be comprise of two parts: Part A & Part B
3. Part A will comprise 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 students will have attempt total six questions, two questions from Part A and four questions from Part B.

11/12/24

T. C. H. / J. S.
aidm

RajRishiBhartrihariMatsya University, Alwar

Syllabus

B.A. (Hons) Examination

2023-24

Semester -II

PAPER-IV: ECONOMIC GEOGRAPHY

3hr.duration

Max.Marks80

UNIT - I

Meaning and scope of Economic Geography, Concepts, Study of the geographical factors affecting economic activities, economic activities of man — Primary, Secondary, Tertiary. World Production and distribution of important crops- Rice, Wheat, Maize, Cotton, Tea and Coffee. Agricultural types and Agricultural Region of the world.

UNIT - II

Irrigation systems, Important minerals and their distribution (Iron, Copper, Aluminum). Power resources : coal, petroleum, natural gas, hydro electricity and non conventional power resources.

UNIT - III

Man's utilization of natural resources and conservation. Industrial regions of the world, Major manufacturing industries and their localization, Iron and Steel, Textile and Chemical. Study of economic region : Damodar Valley, Hoogly , Ruhr region, Great Lake Region, Kobe – Osaka and red basin.

UNIT - IV

World Trade and Transport, Trade and Trade Routes : Sea, Air and Pipe lines. OPEC, BRICS, WTO and Globalization, its effect on developing countries.

Suggested Books :

1. Alexander, J.W. : "Economic Geography" Prentice Hall.
2. Jones and Darkenwald. "Economic Geography" Macmillan.
3. Miller E. : "Geography of Manufacturing" Prentice Hall.
4. सिंह के.एन. : आर्थिकभूगोल के मूलतत्त्व" वसुधराप्रकाशन, गोरखपुर।
5. जैनपी : आर्थिकभूगोल रस्तोगीप्रकाशन, मेरठ।
6. मामोरियासी.बी. : आर्थिकभूगोल साहित्य भवनपब्लिकेशन्स, आगरा।
7. नेगीबी.एस. : संसाधनभूगोल।
8. Alexander, J. W. 2001: Economic Geography. Prentice Hall. India, New Delhi Berry, B.J.L. et al 1976: Geography of Economic System. Prentice hall, Englewood, cliffs N.J., USA.
9. गोतमअत्का, 2010 : आर्थिकभूगोल रस्तोगीप्रकाशन, मेरठ।
10. Guha J.L. and Chatteraj, P.R.: A New Approach to Economic Geography. World press kolkatta.
11. हारुन, एम. 2006 : संसाधनभूगोल वसुधराप्रकाशन, गोरखपुर।
12. Janaki, V.A. 1985: Economic Geography. Concept Publishing Co., New Delhi
13. Leong, G.C. and Morgan, G.C. 1982: Human and Economic Geography. Oxford University Press, London.
14. Singh, KashiNath and Siddiqui, A.R.: Economic Geography, PrayagPustakBhawan,Allahabad.
15. Wheeler, J.O. and Muller, O.P. 1995: Economic Geography. John Wiley, New York.

11/11/23

Handwritten signatures and initials.

GEO-PR-PRACTICAL
B.A. (Hons) SEMESTER-II

CODE OF COURSE	TITLE OF THE COURSE	LEVEL OF THE COURSE	CREDIT OF THE COURSE
GEO-PR	PRACTICAL-1	5	4
TYPE OF THE COURSE	DELIVERY TYPE OF THE COURSE		
MAJOR	60 CONTACT HRS LABORATORY LECTURES AND FIELD STUDY INCLUDING DIGNOSTIC AND FORMATIVE ASSESSMENTS DURING LECTURE HOURS		
PREREQUISITES	CENTRAL BOARD OF SECONDARY EDUCATION OR EQUIVALENT		
OBJECTIVE OF THE COURSE	TO MAKE THE STUDENTS UNDERSTAND ABOUT THE RELIEF FEATURES THROUGH SCALE AND RELIEF REPREESENTATION TECHNIQUES.		

DURATION-4 HOURS

MAX MARKS- 20+80

MIN MARKS- 8+32

PATTERN OF EXAMINATION	BIFARCATION OF MARKS	TIME
WRITTEN TEST	40	02 HOURS
RECORD WORK AND VIVA-VOCE	12+3	02 HOURS
CAMP SURVEY REPORT AND VIVA-VOCE	12+3	
FIELD SURVEY AND VIVA-VOCE	7+3	

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 unity in written paper one 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.
5. Each practical batch of 30 students will be allotted 4 hours of teaching per week for practicals.

Handwritten signature

Handwritten signature

Handwritten signature

Handwritten signature

Unit-I

Methods of representation of relief: Hachures, hill shading, layer tint, Contours etc. Relief features, types of slopes, valleys, waterfall, Gorge, meanders, delta, plateau, conical hill, Ridge, Saddle & Pass to be drawn, with the help of contours shown in topographical sheets of different physiographic regions, profile drawing, serial, superimposed, projected and composite.

Unit-II

Study of Topographical sheets — Scheme of Indian topo-sheets. Interpretation of a hilly and a plain area of India in respects of relief, drainage, Human settlement, Transport & Communication Pattern.

Unit-III

Climatic maps and diagrams — Isoleth Maps (Isobar, Isotherms and Isohyets maps), Simple and compound wind rose, climograph, hythergraph and climatograph, study & interpretation of weather maps of January & July months.

Unit-IV

Prismatic Compass Survey — Importance, Appliances, Methods : Radiation, Intersection, Traverse (closed and open traverse) correction of bearings and removal of closing error- Bowditch, graphical and mathematical method, Calculation of WCB, R.B. and calculation of included angles (CIA)

Three days Environmental survey camp of any village/town within Rajasthan state. Report should be prepared by each student separately and should be submitted in the form of hardcopy and PPT.

Books Recommended

1. Singh R.L. : Elements of Practical Geography, Kalyani Publishers, New Delhi.
2. Monk House, F.J. and Wilkinson, H.R. : Map and Diagrams, Methuen London 1994.
3. Robinson, A.H. : Elements of Cartography, John Willey & Sons, New York.
4. Mishra, RP : Fundamental of Cartography, Macmillan, New Delhi.
5. Kellaway, Georgep : Map Projections, Mathuen & Co., London.
6. Steers, J.K. : Map Projections, University of London Press, London.
7. शर्मा, जे.पी. : प्रायोगिकभूगोल, रस्तोगीप्रकाशन, मेरठ।
8. जैन, एस.एन. : प्रायोगिकभूगोल, साहित्य भवन, आगरा।
9. मिश्रा, आर.एन. पी.के शर्मा, प्रायोगिकभूगोल—सवत्प्रकाशन, जयपुर।

[Handwritten signature]