

University of Rajasthan
Jaipur

SYLLABUS

Three / Four Year Bachelor of Arts in Geography

B. A. (UG 9104)

B.A./B.Sc. (Hons.) V & VI Semester

(2025-26)

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राजस्थान विश्वविद्यालय, जयपुर

Syllabus
Three/ Four Year Bachelor of Arts in Geography
B. A. (UG 9104)
(2025-26)

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.	7	V	MJR	GEO- 75T-351 World Regional Geography- II	4	0	0	4	4
2.	7	V	MJR	GEO-75T-352 Social Geography	4	0	0	4	4
3.	7	V	MJR	GEO-75P-353 Practical-I	0	0	2	2	4
4.	7	V	MJR	GEO-75P-354 Practical-II	0	0	2	2	4
5.	7	VI	MJR	GEO-76T-355 Resource and Economic Geography	4	0	0	4	4
6.	7	VI	MJR	GEO-76T-356 Environment Geography	4	0	0	4	4
7.	7	VI	MJR	GEO-76P-357 Practical-III	0	0	2	2	4
8.	7	VI	MJR	GEO-76P-358 Practical-IV	0	0	2	2	4

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GEO-75T-351-World Regional Geography-II

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-75T-351	World Regional Geography-II	7	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 provide students with a comprehensive understanding of the physical, social, and economic geography of major world regions and their global significance.		

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	$15 \times 4 = 60$
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.

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Syllabus

Unit-I

South America- Physiography, Climate, Drainage, Natural Vegetation, Soil, Population

Major Economic Aspects- Industries (Sugar, Petroleum), Crop (Sugarcane, Cocoa), Mineral (Copper, Bauxite), Industrial Regions- Brazil & Argentina

Specific Study- Caribbean Islands

Unit-II

Africa- Physiography, Drainage, Climate, Natural Vegetation, Soil, Population

Economic Aspects: Industries (Sugarcane), Crops (Maize, Millets, Coffee), Minerals (Precious Metals)

Specific Study- Suez Canal

Unit-III

Australia and New Zealand- Physiography, Drainage, Climate, Natural Vegetation, Soil, Population

Economic Aspects: Industries (Animal Husbandry, Dairy Farming), Crops (Wheat, Cotton), Mineral (Gold, Iron Ore, Coal)

Specific Study- The Great Barrier Reef

Unit-IV

Antarctica- The Continent of the Future

Micronesia, Melanesia, Polynesia

Recommended Readings:

- Cole, J., 1996. A Geography of the World's Major Regions, Routledge, London.
- Deblij, H.J., 1994, Geography: Regions and Concepts, John Wiley, New York.
- Dickenson, J.P. et al, 1996. The Geography of the Third World, Routledge, London.
- Gourou, P., 1980. The Tropical World, Longman, London.
- Jackson, R.H. and Hudman, L.E., 1991. World Regional Geography: Issues for Today, John Wiley, New York.
- Kolb, A., 1977. East Asia - Geography of a Cultural Region,
- Mathuen, London. Minshull, G.N., 1984 Western Europe, Hodder & Stoughton, New York.
- Patterson, J.H., 1985. Geography of Canada and the United States, Oxford University Press.
- Songquiao, Z., 1994. Geography of China, John Wiley, New York.
- Ward, P. W. and Miller, A. 1989. World Regional Geography: A Question of Place, John Wiley, New York.

Course Learning Outcomes:

By the end of the course, Students will be able to analyze the physiography, climate, drainage, natural vegetation, soils, population, and major economic activities of South America, Africa, Australia, New Zealand, Antarctica, and the Pacific Islands, along with specific regional studies, to develop a comprehensive understanding of world regional geography.

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GEO-75T-352- Environment Geography

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-75T-352	Environment Geography	7	4
Types of the Course	Delivery type of the Course		
Major	Lecture, 60 Lectures including diagnostic and formative assessments during lecture hours		
Prerequisites	Central Borad of Secondary Education or Equivalent		
Objectives of the Course	The basic objectives of the course are to apprise the students about our environment, to understand its interrelationship with man and his linkages with other organisms, which varies in different biomes. Also, to sensitize the students with the Environmental problems and degradations.		

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	$15 \times 4 = 60$
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.

Syllabus

Unit - I

Environmental Geography: Nature and scope of environmental geography, fundamental concepts of environmental geography; Approaches and methods in Environmental Geography; Relationship with other branches of knowledge, Environment and Ecology: Meaning, structure and type of Environment, Ecology - meaning, scope and concepts. Sub-vision of ecology.

Unit -II

Ecosystem: Meaning and concepts of ecosystem, Classification and components of eco-system, trophic structure, ecological pyramid, energy flow and biogeochemical cycle; Ecological regions of India.

Unit -III

Environmental pollution- meaning, types, sources, causes and impacts; Air, Water and Land pollutions; Environmental Degradation – Nature, process, types and causes of environmental degradation; Green house effect, Global warming, Ozone depletion and Desertification.

Unit - IV

Environmental management- concept, methods and approaches. Management of soil, forest and mineral resources; Disaster Management; Conservation of natural resources; Emerging environmental problems and issues in India, Environmental policies, programmes, awareness and movements in India.

Recommended Readings:

- Anderson J.M. (1981): Ecology for Environmental Science : Biosphere, Ecosystems and Man, Arnold, London.
- Goudie, Andrew (1984) : The Nature of the Environment, Oxford Katerpring Co. Ltd.
- Nobel and Wright (1996) : Environmental Science, Prentice Hall, New York.
- Odum, E.P. (1971) : Fundamental of Ecology, W.B. Sanders, Philadelphia.
- Saxena, H.M. (1994) : Prayavaranevn Paristhitiki Bhugool (Geography of Environment and Ecology) Rajasthan Hindi Granth Academy, Jaipur.
- Singh, Savinder (1991) : Environmental Geography, Prayag Pustak Bhawan, Allahabad.
- Singh, R.B. (ed.) (1989) : Environmental Geography, Heritage, New Delhi.
- Strahler, A.N. and Strahler, A.H. (1973) : Environmental Geosciences : Interaction between natural systems and Man, John Wiley and Sons, New York.
- Strahler, A.H. and Strahler A.N. (1977) : Geography and Mans Environment, John Wiley, New York.

Course Learning Outcomes:

By the end of the course, students should be able to learn the importance of conserving biodiversity to maintain ecological balance as well as national and international concerns on various environmental issues.

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GEO-75P-353- Practical-I

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-75P-353	Practical-I	7	2
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 equip students with fundamental knowledge and practical skills in cartography, map projections, and surveying techniques for effective geographical representation and analysis		

Duration- 4 Hours

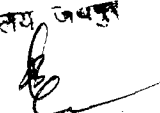
Max. Marks- 10+40

Min. Marks- 4+16

Pattern of Examination	Bifurcation of Marks	Time
Written Test	20	2 Hours
Survey and Viva-Voce	7+3	2 Hours
Record Work and Viva-Voce	7+3	

***Note-**

1. The students will have to prepare **A3 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.

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Syllabus

Unit-I

History of cartography, Study of geological maps and preparation of their cross sections and interpretation. Projection- Definition, Importance, Earth & Grid System Scales of Projection, Classification, Conical Projection (One Standard, Two Standard, Bonne's, Polyconic)

Unit-II

Plane table survey- Introduction and instruments, process of surveying, method of surveying (radiation and intersection), traversing (open and close).

Recommended Readings:

- 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). 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 will be able to understand the history of cartography, interpret geological maps with cross-sections, explain and construct various map projections, and apply plane table survey methods for accurate spatial data collection and representation.

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GEO-75P-354- Practical-II

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-75P-354	Practical-II	7	2
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 equip students with fundamental knowledge and practical skills in cartography, map projections, and surveying techniques for effective geographical representation and analysis		

Duration- 4 Hours

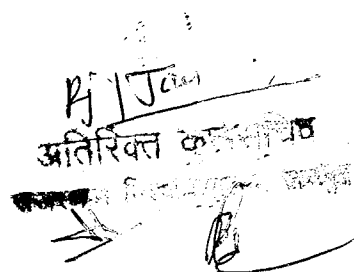
Max. Marks- 10+40

Min. Marks- 4+16

Pattern of Examination	Bifurcation of Marks	Time
Written Test	20	2 Hours
Field Survey and Viva-Voce	7+3	2 Hours
Record Work and Viva-Voce	7+3	

***Note-**

5. The students will have to prepare **A3 Size Record Book** which will be simultaneously checked by the Teacher in the class after teaching and evaluated during the examinations.
6. 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.
7. The student will have to prepare Survey Sheet **INDIVIDUALLY** during the examination.
8. Simple Calculator is permitted in practical examination.



Syllabus

Unit – I

Cylindrical Projection (Equal Area, Equidistant, Gall's and Mercator's), Zenithal Projection (Gnomonic, Stereographic and Orthographic), Conventional Map Projections (Mollweide's and Sinusoidal).

Unit – II

Plane table survey- Two Point Problem and Three Point Problem. Indian Pattern Clinometer- Introduction, Instruments and Process of Surveying (Accessible and Inaccessible Method).

Recommended Readings:

- 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). 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 will be able to understand the history of cartography, interpret geological maps with cross-sections, explain and construct various map projections, and apply plane table survey methods for accurate spatial data collection and representation.

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Semester VI

(2025-26)

GEO-76T-355- Resource and Economic Geography

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-76T-355	Resource and Economic 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	It is an introductory course of resource geography which is aimed at providing knowledge about the concepts of resources, classification, models of natural resource processes, their use and misuse, conservation and management of resources for sustainable development.		

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	$15 \times 4 = 60$
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.

Syllabus

Unit-I

Definition, Nature, Scope and Significance of Resource Geography, Classification of Resources (On Various Parameters), Relationship of Resource Geography with Other Sciences, Resource Regions of India & World.

Unit-II

Distribution, Utilization, Conservation & Sustainable Development of Natural Resources (Water, Soil, Forest & Minerals), Population: Distribution, Growth, Density (Type of Density), Optimum Population, Population Explosion and Land Capability.

Unit-III

Nature, Scope and Significance of Economic Geography, Development of Economic Geography, Relationship of Economic Geography with Other Disciplines, Economic Region of India & World.

Unit-IV

Economic Activities-Types and Factors Responsible for Primary, Secondary Tertiary, Quaternary, Quinary; Trade- Definition, Types Major Trading Routes, Trading Organisation (WTO, OPEC, GATT, NAFTA, EFTA, BRICS)

Recommended Readings:

- Alexander, E.W. 1988: Economic Geography. Prentice Hall India, New Delhi.
- Bunting B.C., 1987: The Geography of Soil. Prentice hall; New York.
- कौशिक, एस.डी, 2010: संसाधन भूगोल । रस्तोगी पब्लिकेशन्स, मेरठा
- माथुर बी. 1998: संसाधन भूगोल । रस्तोगी प्रकाशन, मेरठा
- Mitchell, Bruce. 1979: Geography and Resource Analysis. Longmans, London.
- Park, C.C. 2001: The Environment-Principles and applications. Routledge, London.
- Robinson, G.W. 1932: Soils, their Origin, Constitution and Classification. London.
- Shafi, M. 2004: Agricultural Geography. Pearson India.

Course Learning Outcomes:

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

Students will become sensitized to concept and classification of resources, use or misuse and will learn conservation methods and techniques.

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GEO-76T-355- Agricultural Geography

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-76T-355-	Agricultural Geography	7	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	The course should fully acquaint the students with the understanding of agricultural geography as a developed branch of geography.		

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	$15 \times 4 = 60$
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.

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Syllabus

Unit-I

Introduction to the Environmental Geography as a discipline- Definition & Scope of Environmental Geography, its relation with other subjects. Elements of the Environment. Man-Environment Relationship: Environmental Determinism, Possibilism, Neo-determinism, Concept of Resource Curse.

Unit-II

Ecosystem Ecology- Concept of Ecology: Ecological Succession Types of Ecosystem Energy flow in Ecosystem, Biosphere as an ecosystem, Soil system, Geochemical cycles. Major biomes of the world.

Unit-III

Environmental Issues- Natural Disasters; Environmental Degradation and Environmental Crisis: Floods, Landslides, Earthquakes, Volcanism, Avalanche, Tsunami and Cloud bursts, El Nino; Deforestation, Soil Erosion, Green House effect, Ozone Depletion, Global warming & Climate Change, Water scarcity, Acid Rain, Desertification. Environmental Pollution: Air, Water, Noise, Soil, Radioactive.

Unit-IV

Natural Resource & Environment Management- "Natural Resource Management" Concept by Zimmerman. Problems and Management of Land, Water, Forest, and Energy Resources: Biodiversity Conservation, Wildlife Conservation, Water Conservation, Soil Conservation. Environment Education & Awareness. Concept of Sustainable Development & Sustainable Development Goals. Importance of Environment Impact Assessment (EIA). Environment Programmes & Policies- International & National Efforts.

Readings Recommended:

- Agarwal, A. & Narain, S. 1977: Dyeing Wisdom: Rise, Fall and Potential of India's Traditional Water Harvesting System. Centre for Science and Environment. New Delhi. Economic and social commission for Asia and the Pacific United Nations 1989: Guidelines for the preparation of National Master Water Plans.
- Govt. of India ,1980: Ministry of Energy and Irrigation. Rashtriya Barh Ayog (Report National Commission of Floods, Vol. I & II, New Delhi).
- Govt. of India,1972: Ministry of Agriculture Report of the Irrigation Commission. Vol.I & IV, New Delhi.

- Gulhati, N.D. 1972: Development of Inter- State Rivers: Law and Practice in India. Allied Pub., Bombay.
- International Water: Resource Association and Central Board of Irrigation & Power, Water of Human Needs, 1975: Vols. I to V Proceedings of the Second World Congress on Water Resources, 12-16 December, New Delhi.
- Jones, J.A. 1997: Global Hydrology: Processes, Resource and Environment Management Longman.
- Kates, R.W. and Burton, I. (ed.) 1980: Geography, Resource and Environment Management Ottawa.
- Krutilla, John V. and Eckstein, O. 1958: Multiple Purpose River Development: Studies in Applied Economic Analysis: John Hopkin's Press, Boston.
- Law, B.C. (ed.) 1968: Mountains and Rivers of India IGU. National Committee for Geography, Calcutta.
- Matter, J.R., 1984: Water Resources Distribution, Use and Management. John Wiley, Marylane.
- Michael, A.M. 1978: Irrigation: Theory and Practices, Vikas Publishing House pvt., New Delhi.
- Newson, M. 1992: Land, Water and Development River Basin systems and their Sustainable Management Routledge, London.
- Pareria, H.D. 1973: Landuse and Water Resources, Cambridge University Press Cambridge.

Course Learning Outcomes:

By the end of the course, students should be able to learn major concepts of Environmental geography, ecosystem ecology, various environmental issues and natural resource management.

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GEO-76P-357- Practical III

Code of Course	Title of the Course	Level of the Course	Credits of the Course
GEO-76P-357	Practical III	7	2
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	The course should fully acquaint the students with the understanding of computer in geography.		

Duration- 4 Hours

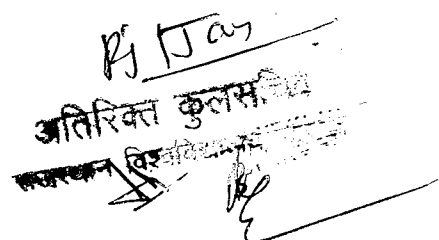
Max. Marks- 10+40

Min. Marks- 4+16

Pattern of Examination	Bifurcation of Marks	Time
Written Test	20	2 Hours
Field Survey and Viva-Voce	7+3	2 Hours
Record Work and Viva-Voce	7+3	

***Note-**

1. The students will have to prepare **A3 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.


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Syllabus

Unit-I

Three Dimensional Diagrams –Cube, Sphere and Block-pile; Maps-Stil-gen-baur's and Sten-de-geer's method, Traffic -Flow Diagram.

Unit –II

Introduction to Computer: Components of Computer—Hardware and Software; Use of Computers in Geography. Application of Computer in Geography (MS Word & MS-Excel)

Recommended Readings:

- Misra, 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 understand the importance of computer in geography and three dimensional diagrams

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