

JAI NARAIN VYAS UNIVERSITY, JODHPUR

DEPARTMENT OF GEOGRAPHY



SYLLABUS
(Four Year Undergraduate Programme)

IN
GEOGRAPHY
(As per NEP 2020)

Semester I & II Examination Session 2026-27
Semester III & IV Examination Session 2027-28
Semester V & VI Examination Session 2028-29
Semester VII & VIII Examination Session 2029-30 (Honours)
Semester VII & VIII Examination Session 2029-30 (Honours with Research)


Head
Department of Geography
J.N.Vyas University, Jodhpur (Raj.)

B.A./B.Sc.. 3rd Semester (Session 2027-28)

NHE QF Level	Se m	Cour se Type	Course Code	Course Title	L	P	H/ W	Tota l Hou rs	Cred its	Total Cred its	Marks the syllabus		
											C. A.	EoS E	Tot al
5	III	MJR	09/GEO/MJR/ 201/T	Geograp hy of India	L	-	6	90	6	6	30	120	150
5	III	MJR	09/GEO/MJR/ 202/P	Cartogra phy Techniqu es	-	P	12	180	6	6	30	120	150
5	III	MN R	09/GEO/MNR/ 201/T	Water Resource Manage ment	L	-	4	60	4	4	20	80	100
5	III	MN R	09/GEO/MNR/ 201/P	Map and Scales	-	P	4	60	2	2	10	40	50
5	III	MD C	09/GEO/MDC/ 201/T	Disaster Manage ment	L	-	2	30	2	2	10	40	50
5	III	MD C	09/GEO/MDC/ 201/P	Introduct ion to field work in Geograp hy	-	P	2	30	1	1	05	20	25
5	III	VAC	09/GEO/VAC/ 201/T	Land People and Culture of Bharat	L	-	3	45	3	3	15	60	75

Total Credits= 6J+6J+6N+3MD+3V= 24


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B.A./B.Sc.. 4th Semester (Session 2027-28)

NHE QF Level	Se m	Cour se Type	Course Code	Course Title	L	P	H/ W	Tot al Hou rs	Cred its	Total Cred its	Marks		
											C. A.	EoS E	Tot al
5	IV	MJR	09/GEO/MJR/ 251/T	Geography of Rajasthan	L	-	6	90	6	6	30	120	150
5	IV	MJR	09/GEO/MJR/ 252/P	Basics of Survey Equipment 's	-	P	12	180	6	6	30	120	150
5	IV	MN R	09/GEO/MNR/ 251/T	Geography of Tourism	L	-	4	60	4	4	20	80	100
5	IV	MN R	09/GEO/MNR/ 251/P	Map projections : Perspectiv e projections		P	4	60	2	2	10	40	50
5	IV	MD C	09/GEO/MDC/ 251/T	Remote Sensing & GIS	L	-	2	30	2	2	10	40	50
5	IV	MD C	09/GEO/MDC/ 251/P	Meteorolo gical Instrument s	-	P	2	30	1	1	05	20	25

Total Credits= 6J+6J+6N+3MD= 21


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B.A./B.Sc.. 5th Semester (Session 2028-29)

NHE QF Level	Se m	Cour se Type	Course Code	Course Title	L	P	H/ W	Tota l Hou rs	Credi ts	Total Credi ts	Marks		
											C. A.	EoS E	Tot al
5.5	V	MJR	09/GEO/MJR/301/T	Environmental Geography	L	-	6	90	6	6	30	120	150
5.5	V	MJR	09/GEO/MJR/302/P	Principles of Cartography	-	P	12	180	6	6	30	120	150
5.5	V	MNR	09/GEO/MNR/301/T	Regional Geography of world	L	-	4	60	4	4	20	80	100
5.5	V	MNR	09/GEO/MNR/301/T	Principles of Surveying		P	4	60	2	2	10	40	50
5.5	V	MDC	09/GEO/MDC/301/T	Geography of Land Use Planning	L	-	2	30	2	2	10	40	50
5.5	V	MDC	09/GEO/MDC/301/T	Basics of Surveying	-	P	2	30	1	1	05	20	25
5.5	V	SEC	09/GEO/SEC/301/T	Applied Geography	L	-	3	45	3	3	15	60	75

Total Credits= 6J+6J+6N+3MD+3S= 24


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Undergraduate Programme (Geography) Syllabus, Semester-III	
Session 2027-2028	
Part-A Introduction	
Subject	Geography
Semester	III
Name of the Course	Disaster Management
Course Code	09/GEO/MDC/201/T
Course Type:	MDC
Level of the course (As per Annexure-I)	200-299
Pre-requisite for the course (if any)	NA
Course Learning Outcomes (CLO)	After completing the course, students will be able to: • CLO–1 (Remember & Understand): Students will understand the concept and definitions of hazard and disaster, and differentiate between them. They will classify disasters into natural and man-made types with relevant examples. • CLO–2 (Understand & Appreciate): Students will analyse the causes, impacts, and consequences of major disasters like floods, earthquakes, cyclones, and droughts. They will evaluate how these disasters affect human life, environment, and economy. • CLO–3 (Analyse): Students will gain knowledge about the distribution and frequency of disasters in India such as earthquakes, floods, and cyclones. They will interpret regional vulnerability and risk-prone areas. • CLO–4 (Apply): Students will understand the processes of rescue, relief, and rehabilitation. They will examine the role of national and international agencies and analyse India's disaster management policies. • CLO–5 (Evaluate): Students will explore environmental problems like deforestation, pollution, climate change, and mining impacts. They will develop awareness about sustainable practices and environmental conservation.
Credits	2
Total Marks	10+40=50
Part-B Contents of the Course	


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Total lecture per week		2
Units	Topics	No. of Lecture/Contact Hours
I	Introduction: Definition, Difference Between Hazard and Disaster; Natural and Manmade Disasters.	6
II	Consequences and impact of disasters; Flood, cyclones, tsunamis, earthquakes, landslides, volcanic eruption, desertification, drought.	6
III	Disaster profile of India: Earthquakes, Cyclones, Floods and Droughts, Landslides.	6
IV	Rescue, Relief and Rehabilitation, Role of National and International agencies In Disaster Management; National Disaster Policy of India.	6
V	Ecology and Environment: Deforestation; Desertification; Wild fire; Pollution: Land, Water, Air; Climate Change; Mining.	6
Part-C Learning Resources		
1. A.K. Srivastava, 2021: Text book of Disaster Management, Scientific Publishers, India. 2. Dhawan, 2019: Disaster Management and Preparedness, CBS Publication, India. 3. Bryant Edwards, 2005: Natural Hazards, Cambridge University Press, U.K. 4. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila. 5. Sharma, R.K. & Sharma, G., (ed.), 2005: Natural Disaster, APH Publishing Corporation, New Delhi. 6. K Siddharta, S Mukherjee: Aapda Prabandhan, Kitab Mahal, New Delhi.		

Undergraduate Programme (Geography) Syllabus, Semester-III	
Session 2027-2028	
Part-A Introduction	
Subject	Geography
Semester	III
Name of the Course	Introduction to field work in Geography
Course Code	09/GEO/MDC/201/P
Course Type:	MDC
Level of the course (As per Annexure-I)	100-199
Pre-requisite for the course (if any)	NA
Course Learning Outcomes (CLO)	After completing the course: CLO 1: Fundamentals of Field Work in Geography • Understand the meaning, objectives, and significance of field work in geography. • Differentiate between types of field work (physical and human). • Apply principles of ethics and safety in field surveys. • Analyze the role of observation and primary data collection in geographical studies. CLO 2: Techniques of Field Data Collection • Understand various methods of field data collection such as observation, questionnaire, and interview schedule. • Apply appropriate sampling techniques in field surveys. • Develop skills in preparation of survey tools. • Record, classify, and tabulate primary data systematically. CLO 3: Field Instruments and Mapping Techniques • Identify and use basic field instruments such as prismatic compass, GPS, measuring tape, and clinometer. • Develop skills in sketch mapping and preparation of field notes. • Apply techniques for simple land use and settlement mapping. • Understand practical applications of instruments in geographical fieldwork.


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		CLO 4: Field Study of Physical Features - Analyze physical features such as relief, slope, drainage, soil, and vegetation. - Identify and interpret various landforms in the field. - Prepare field sketches, diagrams, and environmental observations. - Develop skills in reporting physical environmental conditions. CLO 5: Field Study of Human and Socio-Economic Aspects - Analyze population characteristics and occupational structure. - Study housing patterns, infrastructure, and local resources. - Develop skills in field-based socio-economic analysis. - Prepare and present a brief field report with findings and interpretations.
Credits		1
Total Marks		05+20=25
Part-B Contents of the Course		
Total lecture per week		2
Units	Topics	No. of Lecture/Contact Hours
I	Fundamentals of Field Work in Geography: Meaning, objectives and significance of field work in geography; types of field work (physical and human); ethics and safety in field surveys; role of observation and primary data collection in geographical studies.	6
II	Techniques of Field Data Collection: field observation, questionnaire, interview schedule and sampling methods; preparation of survey tools; recording, classification and tabulation of primary data.	6
III	Field Instruments and Mapping Techniques:	6


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	Basic field instruments and methods—use of prismatic compass, GPS, measuring tape and clinometer; introduction to sketch mapping and preparation of field notes; simple land use and settlement mapping.	
IV	Field Study of Physical Features: relief, slope, drainage, soil and vegetation; identification of landforms; preparation of simple field sketches and diagrams; environmental observation and reporting.	6
V	Field Study of Human and Socio-Economic Aspects: population characteristics, occupational structure, housing pattern, infrastructure and local resources; preparation of a brief field report and presentation of findings.	6
Part-C Learning Resources		
1. Singh, Savindra: <i>Practical Geography</i>, Prayag Pustak Bhawan, Allahabad. 2. Sarkar, A.: <i>Practical Geography: A Systematic Approach</i>, Orient Longman. 3. Khan, Z.A.: <i>Textbook of Practical Geography</i>, Concept Publishing, New Delhi. 4. Mishra, R.P. & Ramesh, A.: <i>Fundamentals of Cartography</i>, Concept Publishing. 5. Matthews, J.A. & Herbert, D.T.: <i>Unifying Geography: Common Heritage, Shared Future</i>, Routledge (Fieldwork chapters). 6. Kent, M., Gilbertson, D.D. & Hunt, C.O.: <i>Fieldwork in Geography</i>, Routledge. 7. Survey of India: Manuals on Topographical Maps and Field Survey. 8. NRSC/ISRO: Introductory Manuals on GPS and Field Data Collection. 9. Journal: <i>Journal of Geography in Higher Education</i> (Selected Articles on Fieldwork Methods). 10. Government of Rajasthan: Village Census and District Statistical Handbook (for field reference).		

GEOGRAPHY PRACTICAL
Scheme of Examination for B.A./B.Sc. Geography Semester III (NEP 2020)

CA and EoSE will be as per University NEP ordinance

NHEQ F Level	Course Type	Course Code	Course Title	P	H/ W	Total Hours	Credits	Total Credits	Marks		
									C. A.	EoS E	Total
5	MDC	09/GEO/MDC/201/P	Introduction to field work in Geography	P	2	30	1	1	05	20	25

Scheme

In each Practical Group the number of students will be 20 students

1. Continues Assessment (CA):Max. Marks CA : 05 Marks
The internal assessment is of 05 Marks which is expended to 100 Marks as follows
 - a. Practical record book evaluation and Viva : 30 Marks
 - b. Assessment of Practical conducted by the students : 70 Marks
2. EoSE (End of Semester Exam) Max. Marks **EoSE** : 20

Note: Each student is required to complete at least Twenty Exercise in the Record Book.

Practical Examination	Duration	Marks
1. Lab Work (Written paper)	01.30 Hours	15 Marks
2. Record Work & Viva	30 Minutes	3+2 = 5 Marks
Total	02 Hours	20 Marks


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Undergraduate Programme (Geography) Syllabus, Semester-IV		
Session 2027-2028		
Part-A Introduction		
Subject	Geography	
Semester	IV	
Name of the Course	Remote Sensing & GIS	
Course Code	09/GEO/MDC/251/T	
Course Type:	MDC	
Level of the course (As per Annexure-I)	200-299	
Pre-requisite for the course (if any)	NA	
Course Learning Outcomes (CLO)	After completing the course, students will be able to: CLO–1 (Remember & Understand): Learners will understand the meaning, nature, scope, and historical evolution of tourism from ancient to modern periods. CLO–2 (Understand & Appreciate): Learners will examine key elements of tourism such as attractions, accessibility, accommodation, and amenities. CLO–3 (Analyse): Learners will understand the physical and cultural bases of tourism in India and identify major tourist circuits and types. CLO–4 (Apply): Learners will explore tourism in Rajasthan focusing on desert, heritage, and wildlife tourism and major tourist centres. CLO–5 (Evaluate): Learners will analyze Rajasthan’s cultural heritage, fairs, festivals, and folk traditions as tourism resources.	
Credits	2	
Total Marks	10+40=50	
Part-B Contents of the Course		
Total lecture per week	2	
Units	Topics	No. of Lecture/Contact Hours


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I	Meaning, nature and scope of tourism; growth of travel through ancient, medieval and modern periods; types of tourism and factors influencing tourism development; tourism as an industry; role of international organizations (UNWTO, UNESCO, WTTC) and impact of globalization.	6
II	Elements of tourism—tourist, attractions, accessibility, accommodation and amenities; tourism transport and hospitality industry; economic, socio-cultural and environmental impacts of tourism; domestic and international tourism; concept of sustainable and responsible tourism.	6
III	Tourism in India—physical and cultural bases; major tourist circuits and types (cultural, religious, wildlife, eco and medical tourism); problems and challenges; role of Ministry of Tourism and ITDC; tourism policies and promotional campaigns.	6
IV	Tourism in Rajasthan—desert, heritage and wildlife tourism; survey of major tourist centres; infrastructure and facilities; role of RTDC; problems, prospects and sustainable tourism development in Rajasthan; Rajasthan Tourism Policy.	6
V	Cultural heritage of Rajasthan; fairs, festivals and folk traditions as tourism resources; patterns of domestic and foreign tourist influx; seasonality and tourism statistics; tourism planning and future prospects.	6

Part-C Learning Resources

1. Choniya, D D, (2016) Sudur Samvaden evam Bhogolic Suchna Pranali ke sighant, Sharda Pustak Bhavan, Allahabad.
2. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th edition. John Wiley and Sons, New York

3. Campbell, J.B. (2002): Introduction to Remote Sensing. 5th edition, Taylor and Francis, London
4. Bhatta, B. (2010): Remote Sensing and GIS, Oxford University Press, New Delhi.
5. Nag Prithvish and Kudrat M. (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi
6. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.

Undergraduate (Honours) Programme (Geography) Syllabus, Semester-V	
Session 2028-2029	
Part-A Introduction	
Subject	Geography
Semester	V
Name of the Course	Geography of Land Use Planning
Course Code	09/GEO/MDC/301/T
Course Type:	MDC
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	NA
Course Learning Outcomes (CLO)	After successful completion of the course, students will be able to: CLO–1 - Understand key concepts of Agricultural Geography and rural land use, including location theories and land-use competition. -Analyze relationships between agriculture, forestry, and landscapes in rural development. -Apply knowledge to evaluate land-use patterns and their impact on rural economies. CLO–2 -Explain major approaches and theories of rural development, including the growth centre approach. -Assess the role of infrastructure and reformist strategies in rural transformation. -Critically evaluate development models for improving rural livelihoods. CLO–3 - Examine rural settlement patterns, housing types, and infrastructure challenges. -Analyze issues of population, employment, transport, and service delivery in rural areas.


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		-Understand the hierarchy and importance of service centers for balanced rural development. CLO-4 - Develop understanding of rural planning, land management, and sustainable resource use. -Apply concepts of water, soil, livestock, and ecological management, including desertification control. - Evaluate the role of Panchayati Raj in rural development. CLO-5 - Gain knowledge of rural development practices specific to Rajasthan. - Analyze major schemes like irrigation, watershed, and desert development programmes. -Assess strategies for integrated and tribal area development in the regional context.
Credits		2
Total Marks		10+40=50
Part-B Contents of the Course		
Total lecture per week		2
Units	Topics	No. of Lecture/Contact Hours
I	Geography and rural development; Agricultural Geography and rural development; Agricultural location theory, Rural land use; Agricultural, pastoral and forestry, land use competition, Land use and landscape,	6
II	Approaches and Theories of rural development, growth centre approach, infrastructure reformist,	6
III	Rural settlement and Infrastructure, Rural Housing: Types, Problems, population and employment, rural transport, service provision, derivation, recreation, health nutrition, Hierarchies of Service centers, need for Service centers in rural area.	6


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IV	Rural planning and land management; Land Holdings, Resource development and integrated rural development; Crop and soil management, livestock range and management; Water management, Ecological management, desertification – monitoring and control, Sustainable Land Use Planning, Rural Local Self Governance in India	6
V	Rural development in Rajasthan; Major tools and techniques, Rural development schemes- Irrigation and land development schemes; Drought prone areas schemes, Desert Development programme ; integrated rural development in Rajasthan, Tribal areas development: Watershed development	6

Part-C Learning Resources

1. Baker, G.E. and others : Agriculture in Modern Life
2. Buck, J.L.: Land Utilization in Chicago, 1937
3. Bennet, N.H. : Elements of Soil Conservation, New York, 1933
4. Clarke, G.R. : A Study of Soils in Field, London, 1961
5. Duckhan, A.N. : The Fabric of Farming
6. Garham, E.H. : Natural Principals of Land Use, New York, 1944
7. Klegez, K.H.W. : Ecological Crop Geography
8. RantaRao, M.S.V. : Soil conservation in India, J.C.A.R. 1962
9. Mighall, R.L. and Black, J.D. : International Competition in Agriculture
10. Raychoudhuri : Soil of India, Delhi, 1963
11. Russel, J. : World Population and food Resources, London, 1954
12. Shafi, M. : Land Utilization in Eastern Uttar Pradesh, Aligarh, 1960
13. Stamp, L.D. : The Land of Britian-Its Use and Misuse London, 1960
14. Tempony, H.and Crist, D.H.: An Introduction to Tropical Agriculture
15. Thirumalia, S.: Agricultural Problems and Policies, Bombay, 1955
16. Found, W.C.: A Theoretical Approach to Rural Land Use Patterns, Arnold London, 1973
17. Gautam, N.C. : Urban Land Use in Bikaner, Minaxi, 1978
18. Vink, Nick. "LAND REFORM: LAND USE AND LAND-USE REGULATION." Agrekon 30, no. 4 (December 1991): 182–84.
19. Allan J.A. ; Remote Sensing in Land use Studies, Geography 65, 1980

Undergraduate Programme (Geography) Syllabus, Semester- V	
Session 2028-29	
Part-A Introduction	
Subject	Geography
Semester	V
Name of the Course	Basics of Surveying
Course Code	09/GEO/MDC/301/T
Course Type:	MDC
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	NA
Course Learning Outcomes (CLO)	After completing the course: CLO 1: Fundamentals of Surveying • Understand the definition, history, and principles of surveying. • Explain the importance of surveying in geographical studies. • Understand the concept of datum and its role in measurement. • Analyze the basic framework of surveying techniques and applications. CLO 2: Types of Surveying • Differentiate between geodetic and plane surveying. • Understand the concepts of triangulation and traverse surveying. • Analyze the applications of different surveying methods. • Evaluate the suitability of surveying techniques for various geographical purposes. CLO 3: Concept and Construction of Scales • Understand the concept and importance of scale in surveying. • Select appropriate scale based on purpose and area. • Perform conversion between different types of scales.


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		- Construct plain, comparative, and diagonal scales accurately. CLO 4: Principles of Contouring - Understand the concept and properties of contours. - Apply methods for interpolation of contours. - Analyze the use of contours in relief representation and terrain analysis. - Evaluate the importance of contours in surveying and planning. CLO 5: Survey Instruments and Their Applications - Identify basic surveying instruments: - Chain and Tape - Plane Table - Prismatic Compass - Indian Clinometer - Understand the working and uses of each instrument. - Apply instruments in field measurement and mapping. - Develop practical skills in basic surveying techniques.
Credits		1
Total Marks		05+20=25
Part-B Contents of the Course		
Total lecture per week		2
Units	Topics	No. of Lecture/Contact Hours
I	Introduction to Surveying: Definition, Brief history of Surveying, Principles of Surveying, Importance of Surveying. Concept of Datum	6
II	Type of Surveying: Geodetic Surveying, Plane Surveying, Triangulation Surveying and Traverse Surveying	6


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III	Concept of Scale: Selection of scale, Conversion of scales, Plain scale, Comparative scale, Diagonal scale	6
IV	Principles of Contouring: Contours, Interpolation of Contours, Uses of Contours in Surveying.	6
V	A general introduction to the basic instruments used in surveying: Chain and Tape, Plane Table, Prismatic Compass, Indian Clinometer.	6
Part-C Learning Resources		
1. “Surveying: Theory and Practice” by James M. Anderson 2. “Principles of Surveying” by J.C. Bhattacharjee		

GEOGRAPHY PRACTICAL
Scheme of Examination for B.A./B.Sc. Geography Semester V (NEP 2020)

CA and EoSE will be as per University NEP ordinance

NHEQ F Level	Course Type	Course Code	Course Title	L	P	H/ W	Total Hours	Credits	Total Credits	Marks		
										C. A.	EoS E	Total
5.5	MDC	09/GEO/MDC/301/T	Basics of Surveying		P	2	30	1	1	05	20	25

Scheme

In each Practical Group the number of students will be 20 students

1. Continues Assessment (CA):Max. Marks CA : 05 Marks
The internal assessment is of 05 Marks which is expended to 100 Marks as follows
 - a. Practical record book evaluation and Viva : 30 Marks
 - b. Assessment of Practical conducted by the students : 70 Marks
2. EoSE (End of Semester Exam) Max. Marks **EoSE** : 20

Note: Each student is required to complete at least Twenty Exercise in the Record Book.

Practical Examination	Duration	Marks
1. Lab Work (Written paper)	01.30 Hours	10 Marks
2. Record Work & Viva	30 Minutes	5+5 = 10 Marks
Total	02 Hours	20 Marks


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