

Syllabi and S.O.E. for Under Graduate Single Major Program(s) w.e.f. 2024-25 session

**SYLLABI AND SCHEME OF
EXAMINATIONS
FOR
DISCIPLINE SPECIFIC COURSES
OF SINGLE MAJOR PROGRAMS
B.A./B.Sc (Geography)
(Based on Curriculum and Credit Framework for UG Programs under NEP)**



**WITH EFFECT FROM
THE
SESSION 2024-25**

**MAHARSHI DAYANAND UNIVERSITY
ROHTAK (HARYANA)**

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Credit Structure for Undergraduate Programmes (Single Major)

Semester	Discipline-Specific Courses (DSC) / Major Course	Minor(MIC)/ Vocational (VOC)/ Skill Enhancement Courses (SEC)/ Internship	Multidisciplinary courses (MDC)	Ability Enhancement courses (AEC)	Dissertation	Value-Added Courses (VAC)	Total Credits
I	DSC - A1 @ 4 credits	MIC1 @ 4 credits	MDC1 @ 3 credits	AEC1 @ 2 credits	-----	VAC1 @ 2 credits	22
	DSC - A2 @ 4 credits	SEC1 @ 3 credits					
II	DSC - A3 @ 4 credits	MIC2 @ 4 credits	MDC2 @ 3 credits	AEC2 @ 2 credits	-----	VAC2 @ 2 credits	22
	DSC - A4 @ 4 credits	SEC2 @ 3 credits					
Students exiting the programme after second semester and securing 48 credits including 4 credits of summer internship will be awarded UG Certificate in the relevant Discipline/Subject							
III	DSC - A5 @ 4 credits	MIC3 @ 4 credits	MDC3 @ 3 credits	AEC3 @ 2 credits	-----	VAC3 @ 2 credits	22
	DSC - A6 @ 4 credits	SEC3 @ 3 credits					
IV	DSC - A7 @ 4 credits	MIC4(VOC) @ 4 credits	-----	AEC4 @ 2 credits	-----	VAC4 @ 2 credits	24
	DSC - A8 @ 4 credits						
	DSC - A9 @ 4 credits						
	DSC - A10 @ 4 credits						
Students exiting the programme after fourth semester and securing 94 credits including 4 credits of summer internship will be awarded UG Diploma in the relevant Discipline/Subject							
V	DSC - A11 @ 4 credits	MIC5(VOC) @ 4 credits	-----	-----	-----	-----	24
	DSC - A12 @ 4 credits	Internship @ 4 credits#					
	DSC - A13 @ 4 credits						
	DSC - A14 @ 4 credits						
VI	DSC - A15 @ 4 credits	MIC6(VOC) @ 4 credits	-----	-----	-----	-----	22
	DSC - A16 @ 4 credits	SEC3 @ 2 credits					
	DSC - A17 @ 4 credits						
	DSC - A18 @ 4 credits						
Students will be awarded 3-year UG Degree in relevant major Discipline/Subject upon securing 136 credits.							
VII	DSC - H1 @ 4 credits	SEC4 @ 4 credits	-----	-----	-----	-----	24
	DSC - H2 @ 4 credits	OR					
	DSC - H3 @ 4 credits	MIC7 (VOC) @ 4 credits					
	DSC - H4 @ 4 credits	OR					
	DSC - H5 @ 4 credits	Internship @ 4 credits					
VIII (4yr UG Hon.)	DSC - H6 @ 4 credits	SEC5 @ 4 credits	-----	-----	-----	-----	24
	DSC - H7 @ 4 credits	OR					
	DSC - H8 @ 4 credits	MIC8 (VOC) @ 4 credits OR					
	DSC - H9 @ 4 credits	Internship @ 4 credits					
	DSC - H10 @ 4 credits						
VIII (4yr UG Hon. with Research)	DSC - H6 @ 4 credits	SEC5 @ 4 credits	-----	-----	Research project/ Dissertation @ 12 credits	-----	24
	DSC - H7 @ 4 credits	OR MIC8 (VOC) @ 4 credits OR Internship @ 4 credits					
						TOTAL CREDITS	184

Note:#Four credits of internship earned by a student during summer internship after 2nd semester or 4th semester will be counted in 5th semester of a student who pursue 3 year UG Programmes without taking exit option.

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Discipline Specific Courses/ Major Course	Nomenclature of Course	Course Code	Credits Distribution			Total Credits	Workload			Total Workload	Marks				Total Marks
			L	T	P		L	T	P		Theory		Practical		
											Internal	External	Internal	External	
Semester I (Session 2024-25)															
DSC - A1 @ 4 credits	Fundamentals of Geomorphology	24GEOS401DS01	4				4			4	30	70			100
DSC - A2 @ 4 credits	Introduction to Cartography (Practical)	24GEOS401DS02			4				8	8			30	70	100
Semester II (Session 2024-25)															
DSC - A3 @ 4 credits	Fundamentals of Human Geography	24GEOS402DS01	4				4			4	30	70			100
DSC - A4 @ 4 credits	Principles of Thematic Mapping and Land Surveying (Practical)	24GEOS402DS02			4				8	8			30	70	100
Semester III (Session 2025-26)															
DSC - A5 @ 4 credits	Fundamentals of Climatology	25GEOS403DS01	4				4			4	30	70			100
DSC - A6 @ 4 credits	Representation of Climatic Data(Practical)	25GEOS403DS02			4				8	8			30	70	100
Semester IV (Session 2025-26)															
DSC - A7 @ 4 credits	World Regional Geography	25GEOS404DS01	4				4			4	30	70			100
DSC - A8 @ 4 credits	Introduction to Geography of India	25GEOS404DS02	4				4			4	30	70			100
DSC - A9 @ 4 credits	Oceanography	25GEOS404DS03	4				4			4	30	70			100
DSC - A10 @ 4 credits	Map Projections (Practical)	25GEOS404DS04			4				8	8			30	70	100

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Semester V (Session 2026-27)															
DSC – A11 @ 4 credits	Population Geography	26GEOS405DS01	4				4			4	30	70		100	
DSC – A12 @ 4 credits	Economic Geography	26GEOS405DS02	4				4			4	30	70		100	
DSC – A13 @ 4 credits	Geography of Haryana	26GEOS405DS03	4				4			4	30	70		100	
DSC – A14 @ 4 credits	Surveying Methods and Field Oriented Report (Practical)	26GEOS405DS04			4				8	8			30	70	100
Semester VI (Session 2026-27)															
DSC – A15 @ 4 credits	Remote Sensing and GIS	26GEOS406DS01	4				4			4	30	70		100	
DSC – A16 @ 4 credits	Environment and Climate Change	26GEOS406DS02	4				4			4	30	70		100	
DSC – A17 @ 4 credits	Disaster Management in India	26GEOS406DS03	4				4			4	30	70		100	
DSC – A18 @ 4 credits	Aerial Photograph and Image Interpretation (Practical)	26GEOS406DS04			4				8	8			30	70	100
Semester VII (Session 2027-28) Hons.															
DSC – H1 @ 4 credits	Foundations in Geography	24GEO201DS01	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H1 @ 4 credits	Geomorphology	24GEO201DS02	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H2 @ 4 credits	Climatology	24GEO201DS03	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H3 @ 4 credits	Resource Geography	24GEO201DS04	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H4 @ 4 credits	Statistical Methods in Geography	24GEO201DS05	4	0	0	4	4	0	0	4	30	70	0	0	100
SEC1/VAC1/Internship1 @ 4 credits	Topographical Sheets and Morphometric Analysis	24GEO201SE01	0	0	4	4	-	-	-	-	-	-	30	70	100
*1 Credit (2 Contact Hours) for Project Work															
Semester VIII (Session 2027-28)															
DSC – H6 @ 4 credits	Geography of World Economy	24GEO202DS01	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H7 @ 4 credits	Regional Development and Planning	24GEO202DS02	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H8 @ 4 credits	Environmental Geography	24GEO202DS03	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H9 @ 4 credits	Fundamentals of Cartography	24GEO202DS04	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H10 @ 4 credits	(i)Geography of India/ (ii)Cultural Geography/ Urban Geography	24GEO202DS05/ 24GEO202DS06/ 24GEO202DS07	4	0	0	4	4	0	0	4	30	70	0	0	100
SEC2/VAC2/Internship2 @ 4 credits	Computer Aided Statistical Diagrams and Digital Cartography	24GEO202SE01	0	0	4	4	-	-	-	-	-	-	30	70	100

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Semester VIII (Session 2027-28) Hons. With Research

DSC – H6 @ 4 credits	Geography of World Economy	24GEO202DS01	4	0	0	4	4	0	0	4	30	70	0	0	100
DSC – H7 @ 4 credits	Regional Development and Planning	24GEO202DS02	4	0	0	4	4	0	0	4	30	70	0	0	100
SEC2/VAC2/Internship2 @ 4 credits	Computer Aided Statistical Diagrams and Digital Cartography	24GEO202SE01	0	0	4	4	-	-	-	-	-	-	30	70	100
Research Project	Research Project/Dissertation	27GEO408PD01	12										90	210	300

*1 Credit (2 Contact Hours) for Project Work

L: Lecture; T: Tutorial; P: Practical/Project Work

Syllabi for Under Graduate Programme in Geography

Semester-I

Session: 2024-25

Name of Program	Under Graduate Single Major Program	Program Code	USGE04
Name of the Course	Fundamentals of Geomorphology	Course Code	24GEOS401DS01
Hours per Week	4	Credits	4
Maximum Marks: 100	Internal Assessment (Max. Marks:30) Attendance:05 Assignment/Presentations/Seminars and Class Participation:05 Sessional Examinations:20	End Semester Examination (Max. Marks:70)	Time of Examinations: 3 Hours
Note: Examiner will set nine questions and the candidates will be required to attempt five questions in all. Question number one will be compulsory containing short answer type questions from all units. Further, examiner will set two questions from each unit and the candidates will be required to attempt one question from each Unit. All questions will carry equal marks.			
Course Learning Outcomes (CLO): CLO 1:To acquire a conceptual background of the concepts of geomorphology. CLO 2:Tohave a systematic knowledge of geomorphic processes. CLO 3:Tohave a base of wide range of ideas and current issues related to physical environment.			
Unit 1: Nature, scope and branches of Geography; meaning and nature of geomorphology; fundamental concepts of geomorphology; plate-tectonics; theory of isostasy: Pratt and Airy; geological time scale.			
Unit 2: The earth's interior; endogenetic forces: fold, fault and associated topography; volcanism and earthquake.			
Unit 3: Exogenetic forces: weathering, erosion and mass wasting; cycle of erosion: Davis and Penck; work of river, wind, glacier, sea wave and underground water and their associated features.			
Unit 4: Application of geomorphology to hydrology, economic activities, resource exploration, military action, highway construction, dam site selection.			
References: <ul style="list-style-type: none"> • Savindra, S. (2004) Geomorphology, Prayag, Pustak Bhavan, Allahabad. • Thornbury, W. (1990) Principles of Geomorphology, Willy, New Delhi. • Enayat A. (1982) Physical Geography, Kalyani Publishers, Ludhiana. • Bloom A L (1992) Geomorphology, Prentice Hall of India, New Delhi. • Wooldridge, S.W. and Morgan. R.S. (1959) An Outline of Geomorphology, OrientLongmans, London. • Savindra, S. (2000) Bhuakriti Vigyan, Prayag, Pustak Bhavan, Allahabad. • Jat, B. C. (2017) Bhuakriti Vigyan, Rawat Publications, Jaipur. 			

Semester- I

Session: 2024-25

Name of Program	Under Graduate Single Major Program	Program Code	USGE04
Name of the Course	Introduction to Cartography (Practical)	Course Code	24GEOS401DS02
Hours per Week	8	Credits	4
Maximum Marks: 100	Internal Assessment (Max. Marks:30) Attendance: 05 Practical Assignments/ Practical File:25	End Semester Examination (Max. Marks: 70) Lab Test: 42 Practical Record: 14 Viva-voce: 14	Time of Examinations: 3 Hours
Note: At least fifteen exercises are to be prepared from all the units covering entire syllabus. In the examination, the lab test shall comprise of six questions in all with at least one question from each unit. The candidate has to attempt three questions, selecting only one question from a unit.			
Course Learning Outcomes (CLO): CLO 1: To acquire a conceptual background of the concepts of land surveying. CLO 2: To have a fair understanding of mapping in geography. CLO 3: To acquire a comprehensive knowledge and future scope of specialization in the course.			
Unit 1: Nature, subject matter and historical development of cartography; basic concepts of cartography; historical development, classification and applications of maps.			
Unit 2: Elements of map: title, direction, index, conventional signs and symbols (Point, line and polygon), scale, latitudes and longitudes.			
Unit 3: Map scales: statement scale, representative fraction and graphical scale (plain scale, comparative scale, time scale, pace scale and diagonal scale).			
Unit 4: Representation of relief: contours, hachures, form lines, spot heights, bench marks and trigonometrical stations.			
References: <ul style="list-style-type: none"> • Singh, L. R. (2016) Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. • Sarkar, A. (2015) Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi. • Kannan, M. and Yadav, S. (2022) Practical Geography, Rawat Publications, Jaipur. • Singh, G. (2012) Map Work and Practical Geography, Vikas Publishing, New Delhi. • Robinson, A.H. et. al., (1995) Elements of Cartography, John Wiley, New York. • Singh, R. L. (1991) Elements of Practical Geography, Kalyani, New Delhi. • Sharma, J.P. (2016) Prayogik Bhugol, Rastogi Publications, Meerut. 			

Semester- II

Session: 2024-25

Name of Program	Under Graduate Single Major Program	Program Code	USGE04
Name of the Course	Fundamentals of Human Geography	Course Code	24GEOS402DS01
Hours per Week	4	Credits	4
Maximum Marks: 100	Internal Assessment (Max. Marks:30) Attendance:05 Assignment/Presentations/Seminars and Class Participation:05 Sessional Examinations:20	End Semester Examination (Max. Marks:70)	Time of Examinations: 3 Hours
Note: Examiner will set nine questions and the candidates will be required to attempt five questions in all. Question number one will be compulsory containing short answer type questions from all units. Further, examiner will set two questions from each unit and the candidates will be required to attempt one question from each Unit. All questions will carry equal marks.			
Course Learning Outcomes (CLO): CLO 1:To acquire a conceptual background of the concepts of human geography. CLO 2:Tohave a systematic knowledge of mankind. CLO 3:Tohave a base of wide range of ideas and current issues related to demographic attributes.			
Unit 1: Meaning, nature and scope of human geography; approaches to study human geography; man-environment relations: determinism, possibilism, neo-determinism, human-ecology and recent perspectives.			
Unit 2: Evolution of mankind: hunting & food gathering, pastoral nomadism, subsistence farming, industrial societies; human adaptation to environment: Eskimo and Bushman; primitive people of India: Bhil and Naga; racial classification: Griffith Taylor and B.S. Guha.			
Unit 3: Demographic attributes: composition, growth and distribution; major human agglomerations; human economic activities: types and transformation; human migration: causes, types and trends.			
Unit 4: Human settlements: types, distribution and affecting factors; dynamics of population resource relationship; population resource regions (Ackerman); development and environment conflicts.			
Recommended Readings: <ul style="list-style-type: none"> • Chandna, R.C. (2022) Geography of population, part-I, concepts determinants and world patterns, Kalyani Publisher, New Delhi. • Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut. • Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad. • Hussain, M. (2012) Manav Bhugol, Rawat Publications, Jaipur • Hussain, M. (2018) Human Geography, Rawat Publications, Jaipur. • Fellman, J. D., Arthur, G., Judith, G., Hopkins, J. and Dan, S. (2007) Human Geography: Landscapes of Human Activities. McGraw-Hill. • Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009) The Dictionary of Human Geography, 5th edition, Basil Blackwell Publishers, Oxford. 			

Semester- II

Session: 2024-25

Name of Program	Under Graduate Single Major Program	Program Code	USGE04
Name of the Course	Principles of Thematic Mapping and Land Surveying (Practical)	Course Code	24GEOS402DS02
Hours per Week	8	Credits	4
Maximum Marks: 100	Internal Assessment (Max. Marks:30) Attendance: 05 Practical Assignments/ Practical File:25	End Semester Examination (Max. Marks: 70) Lab Test: 42 Practical Record: 14 Viva-voce: 14	Time of Examinations: 3 Hours
Note: At least fifteen exercises are to be prepared from all the units covering entire syllabus. In the examination, the lab test shall comprise of six questions in all with at least one question from each unit. The candidate has to attempt three questions, selecting only one question from a unit.			
Course Learning Outcomes (CLO): CLO 1: To acquire a conceptual background of the concepts of thematic mapping. CLO 2: To have a systematic knowledge of surveying method. CLO 3: To acquire a comprehensive knowledge and future scope of specialization in the course.			
Unit 1: Thematic mapping: basic concepts and importance; principles of map design; preparation of land use land cover map; interpretation of thematic maps.			
Unit 2: Tools and techniques of data presentation through visual graphics: bar, line, circles, proportional circles, dot method, spheres, pyramid and flow lines.			
Unit 3: Techniques of thematic mapping: choropleth, chorochromatic, choroschematic; interpolation method; isopleth mapping.			
Unit 4: Land surveying: basic concepts, surveying equipments, surveying methods, chain and tape survey.			
References: <ul style="list-style-type: none"> • Singh, R. L. and Dutta, P. K. (2012) Prayogatamak Bhugol, Central Book Depot, Allahabad. • Kannan, M. and Yadav, S. (2022) Practical Geography, Rawat Publications, Jaipur. • Mishra, R. P. (2014) Fundamentals of Cartography, Concept Publishing Company, New Delhi. • Sharma, J.P. (2021) Prayogik Bhugol, Rastogi Publications, Meerut. • Singh, R.L. and Rana, P.B. Singh. (in English & Hindi) (2020) Elements of Practical Geography, Kalyani Publishers, New Delhi. • Singh, L.R. (In English & Hindi) (2006) Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. • Tyner, J. A. (2010) Principles of Map Design, The Guilford Press. 			