

Sant Gadge Baba Amravati University, Amravati

FACULTY: HUMANITY

Teaching and Learning Scheme: for the Degree of Bachelor of Arts with the Major:

Subject - Geography

New Education Policy 2020

Commencement Year-2024-2025

Revised From- 2026-27

Preamble

The new curriculum of the four-year undergraduate program under NEP, for Geography. It imbibes the following Student-Centric features of NEP 2020: Geography has been broadly accepted as a bridge discipline between human and physical sciences. In the beginning, geography focused on the physical aspects of the earth but the modern geography is an all-encompassing discipline that seeks to understand the earth and all of its human and natural processes as integrating elements. Geography has emerged through time as a trans disciplinary subject integrating the regional diversity with the concepts of the timing of space and the spacing of time. It provides broad, human and place-centred perspectives on the transformation of rural ecology to globalized urban landscape at different levels, from the local/regional/national to global.

Flexibility to Exit:

In order to support early exits, the curriculum aims to develop employability skills early. This has been done so that the outcomes of the 4 yr degree is not compromised as we believe that all but a few students will go for the full 4-year degree.

Employability Potential of the Programme:

The skills you develop during your degree will equip you for a range of jobs. If you're unsure which career path to follow, try doing some work shadowing to find out what interests you. Geography graduates are more employable, with the skills, knowledge and understanding acquired during a geography degree. It is held in high regard by employers. The nature of working lives is changing as per requirement and needs of the employers. It is less likely that you will spend all of your working life in one organization or even in the same sector. If your career path is to be varied, you will need transferable skills and flexibility. Geography provides you with these:

Transferable skills

Employers seek a mixture of skills, qualifications and experience when they recruit for a post. As a graduate you will be in demand for your transferable skills, such as:

- Being a good communicator with strong presentation skills.
- Being competent with ICT.
- Being able to carry out research.
- Being used to working effectively in a team and taking a variety of roles in a team.
- Being able to manage your time by juggling commitments, meeting deadlines and managing stress.
- Being good at combining information from a variety of sources with excellent writing skills.

Specific skills

You will also be in demand for the specific skills and understanding that being a geographer helps you to develop, including:

Scientific and lab skills

- Producing and interpreting maps
- Research and interpretation of data, including GIS skills
- Debate and enquiry
- Environmental and social awareness
- Team-based project work
- Fieldwork techniques

Multidisciplinary/Minor:

The curriculum provides two pathways one of Geography minor and the other of interdisciplinary, to the students from other disciplines.

Research:

With the option to obtain specialization in an area of their choice, the curriculum prepares the students to take up research projects in their final year.

Aims of Bachelor of Arts with the Major : Geography Programme

Four distinct and new learning outcomes have been incorporated from each Course such as:

- Appreciate the relevance of geographical knowledge to everyday life.
- Demonstrate the ability to communicate geographic information by utilising both lecture and practical exercises.
- Inculcate the ability to evaluate and solve geographical problems effectively.
- Demonstrate the skills in using geographical research tools including spatial statistics, cartography.
- Based on the field knowledge and advanced technologies, the students should be able to understand the on-going geographical problems in different regions and levels with appropriate pragmatic solutions.

Program Outcomes: (POs)

1. Design and conduct independent research in their chosen field in the discipline.
2. Demonstrate knowledge of concepts, methods, and theories designed to enhance understanding of the natural world and human society.
3. Communicate the results and significance of their research in both written and oral form.
4. Evaluate how historical events have been influenced by, and have influenced, physical and human geographic factors in local, regional, national, and global settings.
5. Follow established ethical guidelines for research and teaching.
6. Have an in-depth understanding of and mastery of the literature in, at least one particular geographic subfield.
7. A geographer has better job opportunities in government departments, Cartographer, Researcher, Teacher, Competitive Examinations, Government employer, Climatologist, Transportation Manager, Surveyor.

PSOs:

1. Examine social and environmental processes, with a particular focus on space and place, critical theory, practical application, analysis and intervention in chosen field within the discipline of Geography
2. Evaluate causes, consequences, and possible solutions to persistent, contemporary, and emerging global issues
3. Classify processes of environmental change and evaluate the relationship between human beings and their surroundings, bringing to bear knowledge from many disciplines.

**Three Years Six Semesters Programme: Bachelor of Arts with
Major : Geography and Minor: Geography (NEP)
Faculty: Humanities B.A.**

Level	Class	Vertical Type	Course Code	Credit Offered	Marks			Exam Duration
					External	Internal	Total	
4.5	Sem - I	DSC (T) Principle of Physical Geography	622201	2	30	20	50	2 Hour
		DSC (P) Cartographic Techniques (I)	622202	2	25	25	50	2 Hour
	Sem - II	DSC (T) Principle of Geomorphology	622203	2	30	20	50	2 Hour
		DSC (P) Cartographic Techniques (II)	622204	2	25	25	50	2 Hour
		VSC (Vocational Skill Courses) Chain Survey	622271	2	30	20	50	2 Hour
5.0	Sem – III	Major III(T) Introduction of Climatology	622205	2	30	20	50	2 Hour
		Major III (P) Interpretation of IMD Weather Map	622206	2	25	25	50	2 Hour
		Major IV (T) Applied Climatology & Monsoon Studies	622207	2	30	20	50	2 Hour
		VSC (Vocational Skill Courses) Plane Table Survey	622272	2	30	20	50	2 Hour
		IKS -Ancient Indian Geographical Knowledge and thought	622208	2	30	20	50	2 Hour
	Sem – IV	Major V(T) Principle of Oceanography	622209	2	30	20	50	2 Hour
		Major V (P) Oceanographic Maps	622210	2	25	25	50	2 Hour
		Major VI (T) Fundamental of Physical Geography	622211	4	60	40	100	3 Hour
		VSC (Vocational Skill Courses) Prismatic Compass Survey	622273	2	30	20	50	2 Hour

Level	Class	Vertical Type	Course Code	Credit Offered	Marks			Exam Duration
					External	Internal	Total	
5.5	Sem – V	Major VII (T) Human Geography	622212	2	30	20	50	2 Hour
		Major VII (P) Statistical Method	622213	2	25	25	50	2 Hour
		Major VIII (T) Geography of India	622214	4	60	40	100	3 Hour
		Major IX (T) Elective (A) Economic Geography	622215	2	30	20	50	2 Hour
		Major IX (P) Elective (A) Scales and Map Measurement	662216	2	25	25	50	2 Hour
		Major IX (T) Elective (B) Political Geography	622217	2	30	20	50	2 Hour
		Major IX (P) Elective (B) Thematic Cartography	622218	2	25	25	50	2 Hour
		VSC (Vocational Skill Courses) Dumpy Level Surveying	622274	2	30	20	50	2 Hour
5.5	Sem – VI	Major X (T) Settlement Geography	622219	2	30	20	50	2 Hour
		Major X (P) Map Projection and Study Tour	622220	2	25	25	50	2 Hour
		Major XI (T) Geography of Maharashtra	622221	4	60	40	100	3 Hour
		Major XII (T) Elective (A) Population Geography	622222	2	30	20	50	2 Hour
		Major XII (P) Elective (A) Comparative Scale	622223	2	25	25	50	2 Hour
		Major XII (T) Elective (B) Environmental Geography	622224	2	30	20	50	2 Hour
		Major XII (P) Elective (B) Field Work and Research Methodology	622225	2	25	25	50	2 Hour
		VSC (Vocational Skill Courses) Introduction of GIS	622275	2	30	20	50	2 Hour

Minor

Level	Class	Vertical Type	Course Code	Credit Offered	Marks			Exam Duration
					External	Internal	Total	
5.0	Sem –III	Minor III (T) Human Geography	622251	2	30	20	50	2 Hour
		Minor III (P) Statistical Method	622252	2	25	25	50	2 Hour
	Sem –IV	Minor IV (T) Agriculture Geography of India	622253	2	30	20	50	2 Hour
		Minor IV (P) Cartographic Techniques & Statistical Methods	622254	2	25	25	50	2 Hour
5.5	Sem –V	Minor V (T) Physical Geography Of India	622255	2	30	20	50	2 Hour
		Minor V (P) Indian Topographical Maps	622256	2	25	25	50	2 Hour
	Sem –VI	Minor VI (T) Geography of Maharashtra	622257	2	30	20	50	2 Hour
		Minor VI (P) Standard Deviation and Correlation	622258	2	25	25	50	2 Hour

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GOEC (Generic Open Elective Course)

Class	Vertical Type	Course Code	Credit Offered	Marks			Exam Duration
				External	Internal	Total	
Sem -1	OE 1: Geography of India	622261	2	30	20	50	2 Hour
	OE 2 : Geography of Maharashtra	622262	2	30	20	50	2 Hour
Sem -2	OE 3: Physical Geography of World	622263	2	30	20	50	2 Hour
	OE 4: Environmental Geography	622264	2	30	20	50	2 Hour
Sem -3	OE 5: Human Geography	622265	2	30	20	50	2 Hour
Sem -4	OE 6: Physical Geography	622266	2	30	20	50	2 Hour

SEC (Skill Enhancement Courses)

Class	Vertical Type	Course Code	Credit Offered	Marks			Exam Duration
				External	Internal	Total	
Sem -1	(SEC) I : Total Station Surveying	622276	2	30	20	50	2
Sem -2	(SEC) II : GPS Surveying	622277	2	30	20	50	2
Sem -5	(SEC) III : Introduction to GIS (Geographic Information System)	622278	2	30	20	50	2

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Faculty of Humanities

(Syllabus for As Per National Education Policy-NEP-2020)

Three Years-Six Semesters Bachelor's Degree Programme

Degree of Bachelor Arts

(B.A.Semester-I & II Level – 4.5)

Department Specific Core (DSC)

Subject- Geography (Major)

(DSC-Code- 622)

Board of Study – Geography

(Revised From- Academic Year-2026-2027)

Sant Gadge Baba Amravati University, Amravati

FACULTY: HUMANITY

Degree of Bachelor of Arts with the Major:

Subject - Geography

New Education Policy 2020

Examination Scheme

(External, Internal and Practical)

Marks Distributions For Theory and Practical	Total -100 <table><tr><td>Theory (50 Marks) External 30 Marks (2 Hours) Internal 20 Marks</td><td>Practical (50 Marks) External 25 Marks (2 Hours) Internal 25 Marks</td></tr></table>	Theory (50 Marks) External 30 Marks (2 Hours) Internal 20 Marks	Practical (50 Marks) External 25 Marks (2 Hours) Internal 25 Marks
Theory (50 Marks) External 30 Marks (2 Hours) Internal 20 Marks	Practical (50 Marks) External 25 Marks (2 Hours) Internal 25 Marks		
Paper Pattern For Theory (30 Marks)	1) Two Descriptive/ long questions – (Solve any one out of two) 2) Two short Answer questions- (Solve any two out of four)		
Marks Distributions For Only Theory Paper	Total -100 <table><tr><td>Theory External (60 Marks) (3 Hours)</td><td>Theory Internal (40 Marks)</td></tr></table>	Theory External (60 Marks) (3 Hours)	Theory Internal (40 Marks)
Theory External (60 Marks) (3 Hours)	Theory Internal (40 Marks)		
Paper Pattern For Theory (60 Marks)	1) Long answers on any Two Units out of the six Units. (Each question having 10 Marks) (Long answers Types questions should internal choice based. ie. Solve any one question from following questions.) 2) Short answers on any Four Units out of the six Units. (Each question having 05 Marks) (Short answers Types questions should internal choice based. ie. Solve any Two questions from following questions.)		

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
4.5	I	622201	Theory -I Principle of Physical Geography	2	30 Hrs.	2 Hrs.	External -30 Internal - 20 Total -50
Course Objectives:		1)Define Geography and understand its role as a discipline that studies the Earth's surface and spatial relationships. 2)Define latitude and longitude as geographical coordinates and understand their role in location identification. 3)Differentiate between physical geography and human geography, 4)Explain the concepts of Earth's rotation and revolution and their effects on day and night, seasons, and climate.					
Course Outcomes:		1. Understand the meaning, nature, and scope of Geography as a discipline. 2. Identify locations on the Earth using latitude and longitude coordinates. 3. Differentiate between physical and human geography and their areas of study. 4. Explain the effects of Earth's rotation and revolution on day-night and seasons. 5. Develop basic geographical knowledge and spatial understanding of the Earth. 6. Apply fundamental geographical concepts in the study of natural and human environments.					
Unit System		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
Unit I		Geography: Meaning, significance, Branches of Geography: Physical and Human Geography	8 Hrs	8 Marks	- Explore online tools and apps that allow students to interact with virtual globes and maps. Platforms like Google Earth can be utilized for virtual exploration using latitude and longitude. - Teachers should teach students about the solar system as well as the rotation and revolution of the earth through modules. - Engage students in activities that involve calculating time differences between different locations, considering the concepts of local time, standard time, and the International Date Line		
Unit II		The Solar System; Solar And Lunar Eclipse	7 Hrs	7 Marks			
Unit III		General concept of Earth's Origin: Immanuel Kant, Chamberlin and Multan, James Jeans & Herold Jeffriys	8 Hrs	8 Marks			
Unit IV		Latitude and Longitude, Earth's Rotation and Revolution & It's effects; Local time & Standard time, International Date line	7 Hrs	7 Marks			

References:	1. Bunnett, R. B. (1992): <i>Physical Geography in Diagrams</i>, Longman, Harlow. 2. Dayal, P. A. (1996): <i>Text Book of Geomorphology</i>, Shukla Book Depot, Patna. 3. Dury, G. H. (1980): <i>The Face of the Earth</i>, Penguin Books. 4. Ernst, W. G. (2000): <i>Earth Systems: Processes and Issues</i>, Cambridge University Press, Cambridge. 5. ICSSR (1983): <i>A Survey of Research in Physical Geography</i>, Concept Publishing Company, New Delhi. 6. Kale, V. S. & Gupta, A. (2001): <i>Elements of Geomorphology</i>, Oxford University Press, Calcutta. 7. Monkhouse, F. J. (1960): <i>Principles of Physical Geography</i>, Hodder and Stoughton, London. 8. खुल्लर, डी. आर. (2012): <i>फिजिकल जिओग्राफी</i>, कल्याणी पब्लिशर्स, नई दिल्ली। 9. सिंह, एस. (2011): <i>भौतिक भूगोल</i>, प्रयाग पुस्तक भवन, इलाहाबाद। 10. सिंह, सविन्द्र (1993): <i>भौतिक भूगोल</i>, वसुन्धरा प्रकाशन, गोरखपुर। 11. तिवारी, विश्वनाथ (1973): <i>प्राकृतिक भूगोल का स्वरूप</i>, रामप्रसाद एण्ड सन्स, आगरा। 12. चौधरी, शं. रा. आणि चव्हाण, मि. भा. (2004): <i>प्राकृतिक भूगोल</i>, प्रशांत पब्लिकेशन्स, जळगाव. 13. दाते, सु. प्र. व दाते, संजीवनी (1975): <i>सुगम भूविज्ञान</i>, नरेंद्र प्रकाशन, पुणे. 14. घारपुरे, व्ही. टी. (2009): <i>भूरूपशास्त्र</i>, पिंपळापुरे पब्लिकेशन्स, नागपूर. 15. घारपुरे, व्ही. टी. (2017): <i>भूरूपशास्त्राचे मूलतत्त्वे</i>, पिंपळापुरे पब्लिकेशन्स, नागपूर. 16. लांजेवार, दिलीप आणि खराते, विजय (2011): <i>प्राकृतिक भूगोल</i>, नभ प्रकाशन, अमरावती. 17. पाटील, अरुणा प्र. आणि चव्हाण, अनिता जा. (2018): <i>भूरूपशास्त्र</i>, आधार पब्लिकेशन, अमरावती. 18. सारंग, एस. (2010): <i>प्राकृतिक भूविज्ञान</i>, विद्या प्रकाशन, नागपूर. Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, case study, field work mini project work quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcomes.

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
4.5	I	622202	Practical-I Cartographic Techniques (1)	2	60 Hrs.	2 Hrs	External -25 Internal - 25 Total -50
Course Objectives:		1) Acquire skills in constructing various types of diagrams using both digital and manual methods. 2) Enhance map reading skills to interpret and analyze outline maps of the World and India.					
Course Outcomes:		1. The students will be able to acquire knowledge of prominent cities, rivers, mountains, plateaus and oceans in world with special reference to India. 2. Students will be able to acquire the knowledge of locational analysis. 3. Demonstrate the ability to construct Diagrams manually, representing trends and changes in data over a continuous variable. 4. The students will be able to acquire knowledge of digital tools to create Diagrams.					
		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
A.		Construction of Diagrams. (Digital or Manual Methods) Line graphs, Bar graphs and Divided Circle Method	28 Hrs	8 Hrs.	Teachers should use Microsoft Excel software for Construction of Diagrams Provide students with blank outline maps of the world and India and conduct map labeling exercises. Ask them to identify and label key land features such as mountain ranges, rivers, deserts, plateaus, Straits Ocean and Seas.		
B.		To show following Land features in the out-line maps of the World. a) Major Mountains: Rocky, Andes, Alps, Himalaya, Great Dividing Range, Atlas b) Major Rivers: Mississippi, Amazon, Congo, Nile, Yangtze, Irrawati, Murray-Darling, Hwang Ho, Tigris-Euphrates, Thames c) Major Deserts: Sahara, Gobi, Kalahari, Colorado, Great Australian, Atacama, Arabian d) Major Oceans: Pacific Ocean, Atlantic Ocean, Indian Ocean, Arctic Ocean e) Major Seas: Arabian Sea, Mediterranean Sea, Red Sea, Black Sea, Caspian	32 Hrs	7 Hrs.			

	Sea, South China Sea, Caribbean Sea, Bering Sea, Baltic Sea, North Sea, Coral Sea, Andaman Sea, Dead Sea, Sea of Japan, Tasman Sea Major Straits: Strait of Malacca, Strait of Gibraltar, Bering Strait, Strait of Hormuz, Bab-el-Mandeb Strait, Sunda Strait, Palk Strait.			
C.	Practical Record	-----	5	
D.	Viva Voce	-----	5	
References:	1. Singh, L. R. (2020): <i>Fundamentals of Practical Geography</i> , Sharda Pustak Bhawan, Allahabad. 2. Singh, R. L. and Dutta, P. K.: <i>Elements of Practical Geography</i> . 3. Kannan, Monika and Yadav, Shilpi (2022): <i>Practical Geography</i> , Rawat Publications, Jaipur. 4. खुल्लर, डी. आर. (2022): प्रयोगात्मक भूगोल, कल्याणी पब्लिकेशन्स, नवी दिल्ली. 5. शर्मा, जे. पी. (2019): प्रयोगात्मक भूगोल की रूपरेखा, रस्तोगी पब्लिकेशन्स, मेरठशितोळे, तुषार (2020): प्रात्यक्षिक भूगोल, डायमंड पब्लिकेशन्स, पुणे. 6. MOOC: SWAYAM Portal Virtual Lab: Virtual Labs India Media: NPTEL, SWAYAM, CEC-UGC Recorded Lectures.			
Internal Assessment Practical (25 Marks)	Internal assessment for practical work evaluates students' practical skills, fieldwork experience, record maintenance, and understanding of geographical techniques. It includes practical journal submission, field survey/report, viva-voce, and active participation in practical sessions. This assessment helps develop observational, analytical, and mapping skills.			

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
4.5	II	622203	Theory-II Principle of Geomorphology	2	30 Hrs.	2 Hrs.	External -30 Internal - 20 Total -50
Course Objectives:		1. Define and understand the concept of Geomorphology. 2. Define weathering and its importance in landscape development. 3. Identify and describe landforms associated with river processes. 4. Analyze the stages and processes involved in the erosion cycle					
Course Outcomes:		1. The students will be able to identify different geomorphological features associated with earth surface. 2. The students will be able to explain different types of geomorphic processes and their impact on earth surface. 3. The students will be able to overview and critical appraisal of landforms development models. 4. Understand the concept of geomorphology and its significance in studying the Earth's surface features. 5. Classify weathering into mechanical, chemical, and biological types, understanding the mechanisms involved in each process.					
Unit System		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
Unit I		Definition, Nature and Scope of Geomorphology and Significance of Geomorphology Weathering: Types and classification of Weathering, Mechanical, Chemical, and Biological	8 Hrs	8 Marks	Use maps, satellite imagery, and 3D models to help students visualize landscapes and understand the basics of landforms. The model should be used in teaching about Weathering, Cycle Of Erosion Use videos to illustrate mechanical weathering phenomena, providing close-up views of processes like abrasion and exfoliation. Explore virtual tours of rivers, explaining the formation of landforms like meanders, river deltas, and flood plains.		
Unit II		The Work of stream (River): Landforms associated with River	7 Hrs	7 Marks			
Unit III		The Work of Winds Landforms associated with Winds	8 Hrs	8 Marks			
Unit IV		The Work of Glacier Landforms associated with Glacier	7 Hrs	7 Marks			

References:	1. Bunnett, R. B. (1992): <i>Physical Geography in Diagrams</i>, Harlow. 2. Dayal, P. A. (1996): <i>Text Book of Geomorphology</i>, Shukla Book Depot, Patna. 3. Dury, G. H. (1980): <i>The Face of the Earth</i>, Penguin Books. 4. Ernst, W. G. (2000): <i>Earth Systems: Processes and Issues</i>, Cambridge University Press. 5. ICSSR (1983): <i>A Survey of Research in Physical Geography</i>, Concept Publishing, New Delhi. 6. Kale, V. S. and Gupta, A. (2001): <i>Elements of Geomorphology</i>, Oxford University Press, Calcutta. 7. Monkhouse, F. J. (1960): <i>Principles of Physical Geography</i>, Hodder and Stoughton, London. 8. Sharma, H. S. (1987): <i>Tropical Geomorphology</i>, Concept Publishing, New Delhi. 9. Singh, S. (1998): <i>Geomorphology</i>, Prayag Pustakalaya, Allahabad. 10. Small, R. J. (1985): <i>The Landforms</i>, McGraw Hill, New York. 11. Small, R. J. (1985): <i>The Study of Landforms</i>, McGraw Hill, New York. 12. Sparks, B. W. (1960): <i>Geomorphology</i>, Longmans, London. 13. Strahler, A. N. (1992): <i>Modern Physical Geography</i>, John Wiley & Sons. 14. Thornbury, W. D. (1969): <i>Principles of Geomorphology</i>, Wiley Eastern. 15. उपाध्याय, एल. एन. (1984): <i>भौतिक भूगोल</i>, राजस्थान हिंदी अकादमी, जयपुर। 16. खुल्लर, डी. आर. (2012): <i>फिजिकल जिओग्राफी</i>, कल्याणी पब्लिकेशन्स, नई दिल्ली। 17. सिंह, एस. (2011): <i>भौतिक भूगोल</i>, प्रयाग पुस्तक भवन, इलाहाबाद। 18. चौधरी, शं. रा. आणि चव्हाण, मि. भा. (2004): <i>प्राकृतिक भूगोल</i>, प्रशांत पब्लिकेशन्स, जळगाव. 19. दाते, सु. प्र. व दाते, संजीवनी (1975): <i>सुगम भूविज्ञान</i>, नरेंद्र प्रकाशन, पुणे. 20. घारपुरे, व्ही. टी. (2003): <i>भूरूपशास्त्र</i>, पिंपळापुरे पब्लिकेशन्स, नागपूर. 21. घारपुरे, व्ही. टी. (2017): <i>भूरूपशास्त्राचे मूलतत्त्वे</i>, पिंपळापुरे पब्लिकेशन्स, नागपूर. 22. लांजेवार, दिलीप आणि खराते, विजय (2011): <i>प्राकृतिक भूगोल</i>, नभ प्रकाशन, अमरावती. 23. पाटील, अरुणा प्र. आणि चव्हाण, अनिता जा. (2018): <i>भूरूपशास्त्र</i>, आधार पब्लिकेशन, अमरावती
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, case study, field work mini project work quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcomes.

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
4.5	II	622204	Practical-II Cartographic Techniques (2)	2	60 Hrs.	2 Hrs.	External -25 Internal - 25 Total -50
Course Objectives:		1. Analyze the use of hachures in conveying relief features on maps. 2. Explore the concept of hill shading as a method of representing relief. 3. Understand the morphographic method and its use in representing landforms 4. Learn the significance of spot heights, benchmarks, and trigonometrical stations in relief representation.					
Course Outcomes:		1. Students will be able to illustrate the landforms with the help of contour patterns. 2. Students will be able to identify landforms on topographical maps. 3. Define contour lines and understand their significance in representing the topography of the Earth's surface. 4. Identify and differentiate various landforms represented by contour lines, including hills, valleys, and plateaus. 5. Understand the relationship between contour intervals and the steepness of slopes in representing topography. 6. Utilize map reading skills to navigate through different types of landscapes, understanding the terrain based on contour lines.					
		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
A.		Methods of Representing the Relief 1. Hachure System 2. Hill Shading 3. Morphographic Method 4. Spot Heights 5. Bench Mark 6. Trigonometrical Stations 7. Form Lines 8. Contours 9. Mixed Methods	32 Hrs.	8 Hrs.	• Deliver engaging lectures introducing each relief representation method. • Allow students to experiment with creating relief maps using various methods. • Facilitate contour map reading exercises and interpretation sessions. • Organize virtual or physical contour map reading trails.		
B.		Contours Method: Study of Contour Maps & Major Landforms 1. Gentle Slope 2. Steep Slope 3. Concave Slope 4. Convex Slope 5. Conical Hill 6. Plateau	28 Hrs.	7 Hrs.			

	7. ‘V’-shaped Valley 8. ‘U’-shaped Valley 9. Gorge 10. Waterfall			
C.	Practical Record	-----	5	
D.	Viva Voce	-----	5	
References:	1. Singh, L. R. (2020): <i>Fundamentals of Practical Geography</i>, Sharda Pustak Bhawan, Allahabad. 2. Singh, R. L. and Datta, P. K.: <i>Elements of Practical Geography</i>. 3. Kannan, Monika and Yadav, Shilpi (2022): <i>Practical Geography</i>, Rawat Publications, Jaipur. 4. Khullar, D. R. (2022): <i>Prayogatmak Bhugol</i>, Kalyani Publications, New Delhi. 5. शर्मा, जे. पी. (2019): प्रयोगात्मक भूगोल की रूपरेखा, रस्तोगी पब्लिकेशन, मेरठा 6. शिंतोळे, तुषार (2020): प्रात्यक्षिक भूगोल, डायमंड पब्लिकेशन, पुणे. 7. MOOC (SWAYAM): SWAYAM Geography Courses Virtual Lab: Virtual Labs India Media: NPTEL Lectures, SWAYAM Video Lectures, CEC-UGC YouTube Lectures.			
Internal Assessment Practical (25 Marks)	Internal assessment for practical work evaluates students' practical skills, fieldwork experience, record maintenance, and understanding of geographical techniques. It includes practical journal submission, field survey/report, viva-voce, and active participation in practical sessions. This assessment helps develop observational, analytical, and mapping skills.			

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
4.5	II	622271	Vocational Skill Course (VSEC) Chain Survey	2	60 Hrs.	2 Hrs.	External -30 Internal - 20 Total -50
Course Objectives:		1. To understand the basic concept and importance of chain survey. 2. To develop knowledge about surveying instruments and their uses. 3. To learn methods of field measurement and data recording. 4. To develop practical skills in conducting chain survey. 5. To prepare survey maps and calculate area accurately. 6. To apply survey techniques in geographical field studies.					
Course Outcomes:		After completion of the course, students will be able to: 1. Understand the concept, principles and importance of chain survey. 2. Identify and use different surveying instruments properly. 3. Conduct field measurements using chain survey methods. 4. Record and organize survey data in a field book. 5. Prepare survey maps/plans with proper scale and symbols. 6. Calculate area and interpret survey results for geographical studies.					
		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
Unit-I		Introduction to Chain Survey - Meaning and definition of chain survey - Objectives and importance of chain survey - Principles of chain survey - Types of chain survey (simple and detailed survey) - Instruments used in chain survey (chain, tape, arrows, pegs, ranging rods)	16 Hrs	8 Marks	- To explain basic concepts and principles of chain survey. - To show the use of survey instruments practically. - To conduct chain survey in selected area. - To develop practical survey skills through hands-on experience. - To encourage teamwork in survey and fieldwork. - To prepare survey maps and calculate area. - To explain survey techniques using videos and PPTs.		

Unit II	Measurement and Surveying Methods • Direct and indirect measurement • Methods of measuring distance • Ranging: Direct ranging and Indirect ranging • Use of chain and tape in fieldwork • Errors in measurement and their correction	14 Hrs.	7 Marks	
Unit-III	Field Procedure of Chain Survey • Selection of survey area • Reconnaissance survey (preliminary survey) • Preparation of survey plan • Base line and offsets (perpendicular and oblique offsets) • Recording field data in field book • Drawing of survey lines	16 Hrs.	8 Marks	

Unit IV	Plotting and Practical Applications - Plotting of chain survey map on sheet - Scale selection and map drawing - Conventional symbols used in survey maps - Calculation of area using chain survey data - Applications of chain survey in geography, engineering, and land measurement - Advantages and limitations of chain survey	14 Hrs.	7 Marks	
References:	1) Singh L.R. 2020: Fundamentals Of Practical Geography shrada Pustak Bhawan Allahbad 2) Singh R. I. And Datta : Elements of Practical Geography 3) Kannan Monika and Shilpi Yadav (2022): Practical Geography Rawat Publication Jarpur 4) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन 5) Khullar D.R. (2022): Prayogatmak Bhugol Kalyani Publication 6) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:			
Internal Assessment Vocational Skill Course (20 Marks)	Internal assessment is designed to evaluate the continuous performance of students in vocational skill courses. It focuses on practical knowledge, skill development, project work, assignments, and active participation in training activities. The assessment helps students acquire professional competencies, technical skills, and employability attributes required in the workplace.			