

**Shri Guru Ram Rai University, Dehradun**

**Department of Geography**

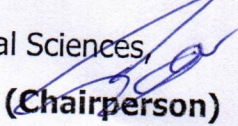

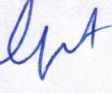

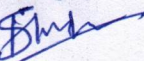
**Fourth Meeting of the Board of Studies**

**14 October 2022**

**Minutes of the Meeting**

The fourth meeting of the Board of Studies in Geography, Shri Guru Ram Rai University, Dehradun was held today i.e. on 14 October, 2022 commencing from 10 A.M. onwards at the Department of Geography, Pathri Bagh, Dehradun.

The following members were present:

1. Pro. Saraswati Kala, Dean SGRRU School of Humanities and Social Sciences, Dehradun.   
(Chairperson)
2. Dr. P.S. Negi, Retired HoD, Department of Geography, D.A.V (PG College), Dehradun.   
(External Expert)
3. Dr. Geeta Rawat, HoD Geography, Department of Geography, SGRRU School of Humanities and Social Sciences, Dehradun.   
(Convener)
4. Dr. Rakesh Kumar, Assistant Professor, Department of Geography, D.B.S (P.G) College, Dehradun.   
(Member)
5. Dr. Kamal Bisht, Associate Professor, Department of Geography, D.B.S (P.G) College, Dehradun.   
(Member)

**PROCEEDINGS AND RESOLUTIONS:**

The members of the BOS discussed the agenda item wise and resolutions were made accordingly.

**Agenda No. 1:** To confirm the minutes of First Board of Studies in Geography held on 17<sup>th</sup> Aug 2017 and to confirm internal experts meeting of Review of BOS in Geography held on 26-09-2018 then next internal experts meeting of B.A. course program in



Geography held on 2<sup>nd</sup> July 2018 and after it then next internal experts meeting of B.A. course program in Geography held on 17 June 2021.

**Resolutions:** All the members confirmed and approved the minutes of First Board of Studies in Geography held on 17<sup>th</sup> Aug 2017 and also confirmed internal experts meeting of Review of BOS in Geography held on 26-09-2018 and internal experts meeting of B.A. course program in Geography held on 17 June 2021.

**Agenda No. 2:** Introduction of new Course according to NEP in the subject of Geography in B.A. (as per CBCS) and at Shri Guru Ram Rai University from Academic Session 2022-2023.

S. No.	Program	Course Category	Course Code	Course Name
1	UG	Major Core	GEOMC-101	Principles of Geomorphology
2		Major Core	GEOMC-102	Practical Geography
3		Major Elective	GEOME 101	Physical Geography
4		Major Elective	GEOME 102	Practical Geography
5		Vocational Coarse	GEOVC 101	Regional Planning and development
6		Open Elective	GEOOE 101	Physical Geography
7		Major Core	GEOMC-201	Introduction to Climatology
8		Major Core	GEOMC-202	Practical Geography
9		Major Elective	GEOME 201	Human Geography
10		Major Elective	GEOME 202	Practical Geography
11		Vocational Coarse	GEOVC 201	Regional Planning and development
12		Open Elective	GEOOE 201	Human Geography

**Resolutions:** Approved and confirmed by all the members.

*[Handwritten signatures in blue ink]*



**Agenda No. 3:** Distribution of courses for two semesters in UG in Geography for the Academic Session 2022-23.

**Resolutions:** The distribution of courses for all semesters in the UG course programme in Geography was discussed in detail with the honorable external expert and it was resolved to approve and implement the same from the academic session 2022-23.

**Agenda No. 4:** To consider and approve Program outcomes (POs), Program specific outcomes (PSOs), Course outcomes (COs) and Course objectives in the revised UG and PG course programmes.

**Resolutions:** The Program outcomes (POs), Program specific outcomes (PSOs), Course outcomes (COs) and Course objectives in the revised UG and PG course programmes were discussed in detail with the honorable external expert and all the members resolved to approve the same with minor corrections/suggestions from the honorable external expert.

**Agenda No. 5:** Addition, deletion or modification in syllabi if required:

- iv. The Honourable expert along with the members of the Board of Studies went through the syllabus of respective UG course program thoroughly and resolved to pass the complete syllabus for two semesters.
- v. After going through the syllabus, detailed discussion took place with certain corrections and suggestions from all the members.
- vi. Details of the suggestions by the members of BOS are as follows:
  - Some suggested original textbooks/reference books and website were included and new courses were introduced to enrich the academic content in various subjects.
  - POs/PSOs/COs was also included in the syllabus as per UGC norms.
  - Changes in syllabus to accommodate and address regional/local aspiration as per UGC norms has also been recommended and incorporated in the syllabi.

**Agenda No. 6:** Allotment and description of course code and credits to different courses in the UG degree program for two semesters.

**Resolutions:**

The course codes in B.A course program were allotted as per University norms and all the members resolved to approve the same. The credit system in B.A. course program was as per UGC norms.





**Agenda No. 7:** Medium of instruction, question paper pattern, medium of examination, and duration of examination, allotment of marks in internal and external exams.

**Resolutions:**

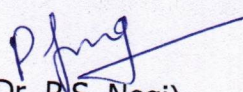
- The members were of the view that the medium of instruction would be English medium/Hindi medium for UG, Course program and it would be as per SGRR University norms.
- It was resolved by all the members that the duration of the End term examination would be as per the guidelines issued by the Board of Examination SGRR University from time to time including the duration of lab course examinations.
- Each paper would be of 100 marks. The distribution of mid-term and end term examination marks will be as per guidelines issued by the Board of Examination SGRR University from time to time.

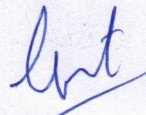
**Agenda No. 8:** Evaluation pattern and distribution of marks.

**Resolutions:** All the members of BOS were of the view that the evaluation pattern and distribution of marks should be as per with other subjects and should follow university norms and NEP guidelines to bring uniformity.

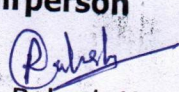
The meeting ended with a vote of thanks to the chair.

  
(Pro. Saraswati Kala)

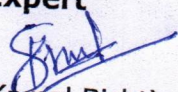
  
(Dr. P.S. Negi)

  
(Dr. Geeta Rawat)

**Chairperson**

  
(Dr. Rakesh Kumar)

**External Expert**

  
(Dr. Kamal Bisht)

**Convener**

**Member**

**Member**



**BA/B.Sc**  
**Duration of the Programme: Three Years**  
**STUDY & EVALUATION SCHEME**  
**Choice Based Credit System**  
**Bachelor of Geography**

COURSE PROGRAMME	SEMESTER	SUB CODE	SUBJECT NAME	CREDITS
BA Geography	First	GEOMC 101	Principles of Geomorphology	4
	First	GEOMC102	Lab course	2
	First	GEOVC 101	Regional Planning and Development	3
	First	GEOME 101	Physical Geography	4
	First	GEOME 102	Lab course	2
	First	GEOOE 101	Introduction Physical Geography	2
				17

**Eligibility for admission:**

Any candidate who has passed the Plus Two of the Higher Secondary Board Board of Examinations in any state recognized as equivalent to the Plus Two of the Higher Secondary Board in with not less than 40 % marks in aggregate is eligible for admission, However, SC/ST, OBC and other eligible communities shall be given relaxation as per University rules.

**Program Outcomes (PO's):**

**PO-1** Acquire knowledge of the discipline and conduct proper academic in various areas of discipline.

**PO-2** Recognize the social structures in our society.

**PO-3** Communicate effectively in context which one is operating and develop soft skills

**PO-4** Leader in teams in multidisciplinary courses and engage in initiatives that encourage growth for all.

**PO-5** Develop awareness of issues among students

**PO-6** Recognize and respect different value systems by following the norms of academic integrity.

**PO-7** Explain awareness of local, regional, national and global needs.





**PO-8** Work on career enhancement by adapting to professional and social needs engaged in lifelong learning.

**PO-9** Exhibit capability as lifelong learners adapting new technologies, modern concepts and skills for sustainable development

**PO-10** Imbibe qualities of good citizenship, morality and ethics so as to work for the betterment of mankind.

**PO-11** Cultivate a broad array of interdisciplinary knowledge and skills integrating concepts of humanities and social sciences.

**PO-12** Able to apply critical thinking, creativity, skills, cultural sensitivity, and humanity to create awareness within society for problem – solving and interpretation.

**Program Specific Outcome (PSOs)**

<b>PSO 1</b>	To prepare the base for geography in the mind and heart of all UG students.
<b>PSO2</b>	To develop the understanding of nature, culture, regional variation and economic aspects.
<b>PSO3</b>	To impart Geographical Knowledge to the students.
<b>PSO4</b>	To introduce basic concept of cartography and develop the understanding about different type of maps, scales, relief features and surveying.
<b>PSO5</b>	To develop understanding of Environment and Sustainable development.

**B.A./B.Sc. Geography**

**First Semester**

S. No.	Course Category	Course Code	Course Name	Periods				Evaluation scheme		Subject Total
				L	T	P	C	Sessional (Internal)	External (ESE)	
<b>Theory</b>										
1	Major Core	GEOMC 101	Principles of Geomorphology	4			4	30	70	100
<b>Practical</b>										
2	Major Core	GEOMC 102	Practical Geography			4	2	30	70	100
		<b>Total</b>		4		4	6	60	140	200
<b>Theory</b>										
3	Major Elective	GEOME 101	Physical Geography	4			4	30	70	100
<b>Practical</b>										

*Phing* *Adon* *Ry* *Shul* *Ant*



4	Major Elective	GEOME 102	Practical Geography			4	2	30	70	100
		<b>Total</b>		4		4	6	60	140	200
<b>Theory</b>										
5	Skill Enhancement	GEOVC 101	Regional Geography	4			4	30	70	100
<b>Practical</b>										
6	Open Elective	GEOOE 101	Physical Geography			4	2	30	70	100
		<b>Total</b>		4		4	6	60	140	200

**Examination Scheme:**

Components	I <sup>st</sup> internal	II <sup>nd</sup> Internal	Presentation/ Assignment/ Project	External (ESE)
Weightage(%)	Marks	Marks	Marks	Marks
100%	15	15	30	70

L – Lecture, T – Tutorial, P – Practical, C – Credit

<b>Course code</b> : GEOMC 101	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : Principles of Geomorphology	4			4
<b>Semester /Year</b> : I				

L - Lecture T – Tutorial P – Practical C – Credit

**Course Objectives: The objectives of this course are**

1. To give the knowledge of three major components of physical geography.
2. To develop the skill of compare and justify in students.
3. To develop the skill in student to write and prepare a project on physical environment.

**Course Outcomes**

**Upon successful completion of the course a:**

Paper code	Paper name	Course outcome
GEOMC 101	Principles of Geomorphology	CO1- Students can learn and describe about basic concepts of physical geography. CO2- Students will be able to explain the 3 components of the earth system as lithosphere, atmosphere and hydrosphere. CO3- They will complete their knowledge of fluvial cycle of erosion in special reference of father of geomorphology Sir Willam

*P. J. Singh*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*



		<p>Moris Davis.</p> <p>CO4-. Now they can compare different atmospheric phenomena in different region.</p> <p>CO5-.They will know oceanic resources and components with justification of importance of tides and currents for human lives.</p> <p>CO6. - They can be able to design a project on fluvial cycle, Hydrological cycle and interior of the earth etc.</p>
--	--	---

MGGC_102	Advance Geomorphology	<p>CO1- Students will be recall the definition, scope, and branches of geography and geomorphology.</p> <p>CO2- Students will be able to explain the concept of Geomorphology.</p> <p>CO3- They will be able to classify world geomorphic region.</p> <p>CO4-. Now they will be identifying various type of landforms develop by various process.</p> <p>CO5-.They will be able to prepare an assignment on the application of Geomorphology in practical world and region geomorphology.</p> <p>CO6- Now they will learn the use of morphology in applied world.</p>
----------	-----------------------	---

### CO-PO Mapping

Course	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	-	-	3	-	3	-	-	1	3	3	3	3	3
CO2	3	3	2	-	-	2		1	-	1	1	3	3	3	3	3
CO3	3	3	3	-	-	2	3	2	-	1	2	3	3	3	3	3
CO4	3	3	3	-	-	2	3	2	-	1	2	3	3	3	3	3
CO5	3	3	3	-	2	2	3	2	-	-	-	3	3	3	3	3
CO6	3	3	3	-	3	2	3	2	-	-	1	3	3	3	3	3
													3	3	3	3

### Course Contents

#### Unit – 1 Geomorphology

Introduction to geography: physical and human geography.

Introduction to Geomorphology: meaning, nature, development, and scope Principles of Geomorphology. Morphogenetic regions.

#### Unit – 2 Systems and Cycles of the Solid Earth

Theories of landscape development by Gilbert, Davis. Theory of Isostasy: Theory of Plate Tectonics: plate boundaries

#### Unit – 3 The Dynamics of Earth





Interior of the earth, Earth's Movements: Endogenetic and Exogenetic forces, Sudden and Diastrophic Movements., Earthquake and Volcano, Rocks: Characteristics, types, importance of rocks , Weathering: meaning, types and controlling factors, Mass Movement: meaning, controlling factors, types-landslides in special reference to Himalayan state.

**Case Studies:** Natural calamity reporting of latest incidents in Uttrakhand.

#### **Unit – 4 Evolutions of Landforms**

Concept of Cycle of Erosion–W.M. Davis and W. Penck

Agents of Denudation: River; Groundwater, Sea waves, Wind and  
Glaciers, drainage patterns.

Application of geomorphology: in India and Uttrakhand (Regional planning, Urban Planning and transportation, Mining, Hazard management, Agriculture and Environmental management).

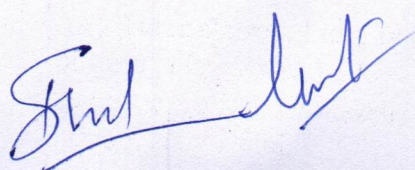
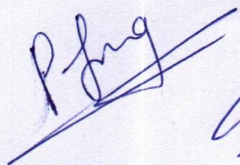
#### **Books Recommended:**

##### **Text Books:**

1. Allaby, Michael (2008): Oxford Dictionary of Earth Science, Oxford University Press, New York.
2. Bloom, A.L. (1991): Geomorphology, 2nd Ed Englewood Cliffs, M.J. Prentice Hall.
3. Chorley, R.J. Schumm, S.A. & Sugden, D.E. (1985): Geomorphology, Methuen & Co. Ltd., London, New York.
4. Brierley, G.J. & Fryirs, K.A. (2005): Geomorphology and River Management, Blackwell Publishing, Oxford UK.
5. Briggs, K. (1985): Physical Geography Process and System, Hodder and Stoughton, London.
6. Dayal, P. (1996): A Textbook of Geomorphology, Shukla Book Depot, Patna.
7. Leopold, L.B. Wolman, M.G. & Miller, J.P. (1964): Fluvial Processes in Geomorphology, W.H. Freeman, San Fransisco.
8. Morgan, R.S. & Wooldridge S.W (1959): Outline of Geomorphology the Physical basis of Geography, Longmans Green, London.
9. Robinson, Harry (1969): Morphology and Landscape, University Tutorial Press Ltd. London.
10. Strahler, A.N (1969): Physical Geography. John Wiley & Sons Inc., New York.
11. Thornbury, W.D. (1969): Principles of Geomorphology, Wiley Eastern Ltd. New Delhi.
12. Wadia, D.N. (1993): Geology of India, Tata McGraw Hill Edition, New Delhi.

##### **Reference Books:**

1. Singh, Savindra Geomorphology, PrayagPustakBhawan, Allahabad.:
2. Singh, Savindra, Bhooakirtivigyan (in hindi), PrayagPustakBhawan, Allahabad.
3. Singh, Savindra (1991): Environmental Geography, Prayag Pustak Bhavan ,Allahabad





4. <https://www.amazon.in/Introduction-Process-Geomorphology-Vijay-Sharma-ebook/dp/B006YWRR4A>

5. <https://www.kobo.com/us/en/ebook/the-basics-of-geomorphology>

Course code	: GEOMC 102	L	T	P	C
Course Name	: Practical Geography			4	2
Semester /Year	: I				

### Course Objectives

Theo bjectives of this course are:

1. To introduce basic concept of cartography and develop the understanding about different type of maps, scales, relief features.
2. to recognize various land form features in the topographical map.
3. Students will be able to recognize and importance of conventional signs on international platform.

### Course Outcomes

Upon successful completion of the course a:

Paper code	Paper name	Course outcome
GEOMC 102	Geography Practical	<p>CO1- Students will learn and relate relief features with actual world.</p> <p>CO2- Students can learn and explain basic concept of cartography.</p> <p>CO3- They will solve the problems related to scale.</p> <p>CO4-. Now they can examine the importance of topographical sheets published by Survey of India</p> <p>CO5-.They can prepare the plan of their area from given survey sheet.</p> <p>CO6-Student will be able to describe the plan prepared by them for selected micro area.</p>

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P O1 0	PO11	PO1 2	PSO 1	PSO2	PSO3	PS
CO1	2	-	3	1	-	-	1	3	-	-	1	1	3	3	3	3
CO2	3	-	3	1	-	-	-	1	1	-	2	2	3	3	3	3
CO3	3	-	3	1	-	-	3	2	1	-	2	3	3	3	3	3
CO4	3	-	3	1	-	-	3	3	2	-	1	3	3	3	3	3
CO5	3	-	3	1	-	-	3	3	2	-	1	2	3	3	3	3

*P Singh*

*Sharma*

*Rath*

*Sharma*

*Sharma*



CO6	3	-	3	1	-	-	3	3	2	-	1	2	3	3	3	3
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

## Course Contents

### Unit -1

Scale- Definition and importance, construction of simple, comparative and diagonal scale.

### Unit -2

Topo sheets- indexing, scale and conventional signs.

### Unit -3

Study and interpretation of one inch/1:50000, Survey of India Toposheets with special reference to landscape features, drainage characteristics, land use, settlements, transport and other routes.

### Unit -4

Meaning and importance of contours; landform features based on contours and profile drawn on them.

## Division of Marks

- Lab Work-one question from each section with internal choice.
- Sessional record and viva.

## Reading List

### Text Books:

- Dent B. D., 1999: *Cartography: Thematic Map Design*, (Vol. 1), McGraw Hill.
- Gupta K. K and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, NewDelhi.
- Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept Publishing.
- Robinson A., 1953: *Elements of Cartography*, John Wiley.
- Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers.
- Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.

### Reference Book:

- Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
- Singh R. L., 1998: *Prayogic Bhoogol Rooprekha*, Kalyani Publications.

9- <https://www.amazon.in/Understanding-Practical-Geography-Surveying-Secondary-ebook/dp/B076XDG8QS>



10. [https://books.google.co.in/books/about/Elements\\_Of\\_Practical\\_Geography.html?id=bFJLYgEACAAJ&redir\\_esc=y](https://books.google.co.in/books/about/Elements_Of_Practical_Geography.html?id=bFJLYgEACAAJ&redir_esc=y)

**Websites:**

Indian Institute of Surveying & Mapping: <http://www.iism.nic.in/>  
 Survey of India Department of Science & Technology: <http://www.surveyofindia.gov.in/>  
 Indian National Cartographic Association: <https://incaindia.org/>  
 Bhuvan Indian Geo Platform of ISRO: <https://bhuvan.nrsc.gov.in/>,

<b>Course code</b> :	GEOME 101	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> :	Physical Geography	4			4
<b>Semester /Year</b> :	I				

L - Lecture T – Tutorial P – Practical C – Credit

**Course Objectives: The objectives of this course are**

1. To give the knowledge of three major components of physical geography.
2. To develop the skill of compare and justify in students.
3. To develop the skill in student to write and prepare a project on physical environment.

**Course Outcomes**

Upon successful completion of the course a:

Paper code	Paper name	Course outcome
GEOME 101	Physical Geography	<p>CO1- Students can learn and describe about basic concepts of physical geography.</p> <p>CO2- Students will be able to explain the 3 components of the earth system as lithosphere, atmosphere and hydrosphere.</p> <p>CO3- They will complete their knowledge of fluvial cycle of erosion in special reference of father of geomorphology Sir Willam Moris Davis.</p> <p>CO4-. Now they can compare different atmospheric phenomena in different region.</p> <p>CO5-. They will know oceanic resources and components with justification of importance of tides and currents for human lives.</p> <p>CO6. - They can be able to design a project on fluvial cycle, Hydrological cycle and interior of the earth etc.</p>

**CO-PO Mapping**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO
CO1	3	-	3	-	-	-	3	3	-	-	1	1	3	3	3	3

*[Handwritten signatures]*



CO2	3	-	3	-	-	-	3	3	1	-	2	2	3	3	3	3
CO3	3	-	3	-	-	-	3	3	1	-	2	3	3	3	3	3
CO4	3	-	3	-	-	-	3	3	2	-	1	3	3	3	3	3
CO5	3	-	3	1	-	-	3	3	2	-	1	2	3	3	3	3
CO6	3	-	3	1	-	-	3	3	3	-	1	1	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

## Course Contents

### Unit -1

Physical Geography – Definition and Scope, Components of Earth System.

### Unit -2

Lithosphere – Internal Structure of Earth based on Seismic Evidence, Plate Tectonics. Erosion and weathering; Fluvial Cycle of Erosion – Davis and Penck

### Unit -3

Atmosphere – Heat Balance, Global Circulation Pattern, Tropical Cyclones, Monsoon, Climatic Classification (Koppen & Taylor).

### Unit -4

Hydrosphere – Ocean Bottom Relief Features, Tides and Currents, salinity and oceanic resources.

### Reading List

#### Text Books:

1. Conserva H. T., 2004: Illustrated Dictionary of Physical Geography, Author House, USA.
2. Gabler R. E., Petersen J. F. and Trapasso, L. M., 2007: Essentials of Physical Geography (8th Edition), Thompson, Brooks/Cole, USA.
3. Garrett N., 2000: Advanced Geography, Oxford University Press.
4. Goudie, A., 1984: The Nature of the Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford.
5. Hamblin, W. K., 1995: Earth's Dynamic System, Prentice Hall, N.J.
6. Husain M., 2002: Fundamentals of Physical Geography, Rawat Publications, Jaipur.
7. Monkhouse, F. J. 2009: Principles of Physical Geography, Platinum Publishers, Kolkata.

#### Reference Book:

1. Singh, Savindra : Physical Geography, PrayagPustak Bhawan, Allahabad.



2. Singh, Savindra :Bhotik Bhoogol (in Hindi), Prayag Pustak Bhawan, Allahabad.

10. <https://open.umn.edu/opentextbooks/textbooks/926>

11. <http://www.physicalgeography.net/fundamentals/contents.html>

**Websites:**

e-PG Pathshala: <https://epgp.inflibnet.ac.in/>

MOOCS - NPTEL: <https://nptel.ac.in/>

MOOCS - SWAYAM: <https://swayam.gov.in/>

National Digital Library of India: <https://ndl.iitkgp.ac.in/>

Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

Course code	: GEOME-102	L	T	P	C
Course Name	: Practical Geography			4	2
Semester /Year	: I				

**Course Objectives**

**Theo bjectives of this course are:**

1. To introduce basic concept of cartography and develop the understanding about different type of maps, scales, relief features.
2. to recognize various land form features in the topographical map.
3. Students will be able to recognize and importance of conventional signs on international platform.

**Course Outcomes**

**Upon successful completion of the course a:**

Paper code	Paper name	Course outcome
GEOMC 102	Geography Practical	<p>CO1- Students will learn and relate relief features with actual world.</p> <p>CO2- Students can learn and explain basic concept of cartography.</p> <p>CO3- They will solve the problems related to scale.</p> <p>CO4-. Now they can examine the importance of topographical sheets published by Survey of India</p> <p>CO5-.They can prepare the plan of their area from given survey sheet.</p> <p>CO6-Student will be able to describe the plan prepared by them for selected micro area.</p>

**CO-PO Mapping**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P	PO11	PO1	PSO	PSO2	PSO3	PS
--------	-----	-----	-----	-----	-----	-----	-----	-----	-----	---	------	-----	-----	------	------	----

*(Handwritten signatures)*



										O1 0		2	1			
CO1	2	-	3	1	-	-	1	3	-	-	1	1	3	3	3	3
CO2	3	-	3	1	-	-	-	1	1	-	2	2	3	3	3	3
CO3	3	-	3	1	-	-	3	2	1	-	2	3	3	3	3	3
CO4	3	-	3	1	-	-	3	3	2	-	1	3	3	3	3	3
CO5	3	-	3	1	-	-	3	3	2	-	1	2	3	3	3	3
CO6	3	-	3	1	-	-	3	3	2	-	1	2	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Scale- Definition and importance, construction of simple, comparative and diagonal scale.

#### Unit -2

Topo sheets- indexing, scale and conventional signs.

#### Unit -3

Study and interpretation of one inch/1:50000, Survey of India Toposheets with special reference to landscape features, drainage characteristics, land use, settlements, transport and other routes.

#### Unit -4

Meaning and importance of contours; landform features based on contours and profile drawn on them.

### Division of Marks

- Lab Work-one question from each section with internal choice.
- Sessional record and viva.

### Reading List

#### Text Books:

- Dent B. D., 1999: *Cartography: Thematic Map Design*, (Vol. 1), McGraw Hill.
- Gupta K. K and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, NewDelhi.
- Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept Publishing.
- Robinson A., 1953: *Elements of Cartography*, John Wiley.
- Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers.
- Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.



**Reference Book:**

1. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers

2. Singh R. L., 1998: *Prayogic Bhoogol Rooprekha*, Kalyani Publications.

9- <https://www.amazon.in/Understanding-Practical-Geography-Surveying-Secondary-ebook/dp/B076XDG8QS>

10. [https://books.google.co.in/books/about/Elements\\_Of\\_Practical\\_Geography.html?id=bFJLYgEACAAJ&redir\\_esc=y](https://books.google.co.in/books/about/Elements_Of_Practical_Geography.html?id=bFJLYgEACAAJ&redir_esc=y)

**Websites:**

Indian Institute of Surveying & Mapping: <http://www.iism.nic.in/>

Survey of India Department of Science & Technology: <http://www.surveyofindia.gov.in/>

Indian National Cartographic Association: <https://incaindia.org/>

Bhuvan Indian Geo Platform of ISRO: <https://bhuvan.nrsc.gov.in/>

Course code	: GEOVC-101	L	T	P	C
Course Name	: Regional Planning and development ( Skill Enhancement Course)	3			3
Semester /Year	: I				

**Course Objectives: The objectives of this course are:**

1. To developed the analytical understanding of regional concepts, approaches and demarcation and to make the students aware about various plans adopted for regional developments.
2. Students will be able to critically evaluate the formal, functional and planning regions as well as they can evolve theoretical input for regional development.

**Course Outcomes****Upon successful completion of the course a:**

Paper code	Paper name	Course outcome
GEOVC-101	Regional Planning and development	<p>CO1- Students will find the concept of region</p> <p>CO2- Students will be able to compare between different types of region.</p> <p>CO3- They will be able to classify different region on the basis of different natural and cultural components.</p> <p>CO4-. They will justify the limitation of a particular region.</p> <p>CO5-.They will be able to prepare a plan of natural regions in a political boundary as well as political regions.</p> <p>CO6- They will be able to prepare a design for the development region.</p>

*P Singh*

*Ra*

*Shul*



### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO3
CO1	3	-	3	1	1	-	3	2	-	-	3	2	3	3	3	3
CO2	3	-	3	1	1	-	3	2	-	-	3	2	3	3	3	3
CO3	3	-	3	2	-	-	3	2	-	-	3	2	3	3	3	3
CO4	3	-	3	3	-	-	3	3	-	-	2	3	3	3	3	3
CO5	3	-	3	1	1	-	3	3	-	-	1	3	3	3	3	3
CO6	2	-	3	1	1	-	3	3	-	-	1	3	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

#### Course Contents

##### Unit -1

Meaning, Concept, Need and Types of Regional Planning.

##### Unit -2

Regionalization of India for Planning (Agro climatic Zones).

##### Unit -3

Models for Regional Planning: Growth Pole Theory; Core Periphery Model and Growth Foci Concept in Indian Context.

##### Unit -4

Backward Regions and Regional Plans- Special Area.  
Development Plans in India; DVC & Tehri Dam -The Success Story and the Failures; - NITI Aayog.

#### Reading List

##### Text Books:

1. Blij H. J. De, 1971: *Geography: Regions and Concepts*, John Wiley and Sons.
2. Claval P.I, 1998: *An Introduction to Regional Geography*, Blackwell Publishers, Oxford and Massachusetts.
3. Friedmann J. and Alonso W. (1975): *Regional Policy - Readings in Theory and Applications*, MIT Press, Massachusetts.
4. Gore C. G., 1984: *Regions in Question: Space, Development Theory and Regional Policy*, Methuen, London.

*PP* *Ad* *Ry* *Shul* *MK*



5. Gore C. G., Köhler G., Reich U-P. and Zieseimer T., 1996: *Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention*, Metropolis- Verlag, Marburg.
6. Haynes J., 2008: *Development Studies*, Polity Short Introduction Series.
7. Johnson E. A. J., 1970: *The Organization of Space in Developing Countries*, MIT Press, Massachusetts.
8. Peet R., 1999: *Theories of Development*, The Guilford Press, New York.
- 9- Roger M Minshull, 1967; *Regional Geography*; Hutchinson University Library.
10. Singh R.L., 1971, India: *Regional Geography*; National Geographical Society of India, Varanasi.
11. Douglas L Johnson, Viola Haarmann, Merrill L Johnson, *World Regional Geography: A Development Approach*, 11th edition, July 2015, Pearson Publication.

**Reference Book:**

1. Alka Gautam, *Regional Geography of the world*, Sharda Pustak Bhawan, Allahabad.

1. <https://www.pearson.com/store/p/world-regional-geography-a-development-approach/P100002140235/9780137612697>

2. <https://www.indianculture.gov.in/ebooks/india-regional-geography>

<b>Course code</b> : GEOOE -101	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : Physical Geography	2			2
<b>Semester /Year</b> : I				

L - Lecture T – Tutorial P – Practical C – Credit

**Course Objectives: The objectives of this course are**

1. To give the knowledge of three major components of physical geography.
2. To develop the skill of compare and justify in students.
3. To develop the skill in student to write and prepare a project on physical environment.

**Course Outcomes**

**Upon successful completion of the course a:**

Paper code	Paper name	Course outcome
GEOOE -101	Physical Geography	CO1- Students can learn and describe about basic concepts of physical geography.

*P. J. Singh*

*R. K. Singh*

*J. K. Singh*



		<p>CO2- Students will be able to explain the 3 components of the earth system as lithosphere, atmosphere and hydrosphere.</p> <p>CO3- They will complete their knowledge of fluvial cycle of erosion in special reference of father of geomorphology Sir Willam Moris Davis.</p> <p>CO4-. Now they can compare different atmospheric phenomena in different region.</p> <p>CO5-.They will know oceanic resources and components with justification of importance of tides and currents for human lives.</p> <p>CO6. - They can be able to design a project on fluvial cycle, Hydrological cycle and interior of the earth etc.</p>
--	--	--

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO
CO1	3	-	3	-	-	-	3	3	-	-	1	1	3	3	3	3
CO2	3	-	3	-	-	-	3	3	1	-	2	2	3	3	3	3
CO3	3	-	3	-	-	-	3	3	1	-	2	3	3	3	3	3
CO4	3	-	3	-	-	-	3	3	2	-	1	3	3	3	3	3
CO5	3	-	3	1	-	-	3	3	2	-	1	2	3	3	3	3
CO6	3	-	3	1	-	-	3	3	3	-	1	1	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Physical Geography – Definition and Scope, Components of Earth System.

#### Unit -2

Lithosphere – Internal Structure of Earth based on Seismic Evidence, Plate Tectonics. Erosion and weathering; Fluvial Cycle of Erosion – Davis and Penck.

#### Unit -3

Atmosphere – Heat Balance, Global Circulation Pattern, Tropical Cyclones, Monsoon, Climatic Classification (Koppen & Taylor).

#### Unit -4

Hydrosphere – Ocean Bottom Relief Features, Tides and Currents, salinity and oceanic resources.

#### Reading List

#### Text Books:

1. Conserva H. T., 2004: Illustrated Dictionary of Physical Geography, Author House, USA.

*Pfmg* *son* *Py* *ly* *Bhat*



2. Gabler R. E., Petersen J. F. and Trapasso, L. M., 2007: Essentials of Physical Geography (8th Edition), Thompson, Brooks/Cole, USA.
3. Garrett N., 2000: Advanced Geography, Oxford University Press.
4. Goudie, A., 1984: The Nature of the Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford.
5. Hamblin, W. K., 1995: Earth's Dynamic System, Prentice Hall, N.J.
6. Husain M., 2002: Fundamentals of Physical Geography, Rawat Publications, Jaipur.
7. Monkhouse, F. J. 2009: Principles of Physical Geography, Platinum Publishers, Kolkata.

**Reference Book:**

1. Singh, Savindra : Physical Geography, Prayag Pustak Bhawan, Allahabad.
2. Singh, Savindra : Bhotik Bhoogol (in Hindi), Prayag Pustak Bhawan, Allahabad.
10. <https://open.umn.edu/opentextbooks/textbooks/926>
11. <http://www.physicalgeography.net/fundamentals/contents.html>

**Websites:**

- e-PG Pathshala: <https://epgp.inflibnet.ac.in/>  
 MOOCS - NPTEL: <https://nptel.ac.in/>  
 MOOCS - SWAYAM: <https://swayam.gov.in/>  
 National Digital Library of India: <https://ndl.iitkgp.ac.in/>  
 Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

**B.A./B.Sc. Geography Second Semester**

S. No.	Course Category	Course Code	Course Name	Periods				Evaluation scheme		Subject Total
				L	T	P	C	Sessional (Internal)	External (ESE)	
<b>Theory</b>										
1	Major Core	GEOMC-201	Introduction to Climatology	4			4	30	70	100
<b>Practical</b>										
2	Major Core	GEOMC-202	Practical Geography			4	2	30	70	100
		<b>Total</b>		4		4	6	60	140	200
<b>Theory</b>										
Major Elective	GEOME 201		Human Geography	4			4	30	70	100
<b>Practical</b>										
Major	GEOME 202		Practical			4	2	30	70	100

*P Singh* *Dr* *R*

*Shaf* *det*



Elective		Geography						
	<b>Total</b>		4	4	6	60	140	200
<b>Theory</b>								
Vocational Course	GEOVC 201	Regional Planning and development	4		4	30	70	100
<b>Theory</b>								
Open Elective	GEOOE 201	Human Geography		4	2	30	70	100
	<b>Total</b>		4	4	6	60	140	200

L – Lecture, T – Tutorial, P – Practical; C – Credit

**Examination Scheme:**

Components	I <sup>st</sup> internal	II <sup>nd</sup> Internal	Presentation/ Assignment/ Project	External (ESE)
Weightage(%)	Marks	Marks	Marks	Marks
100%	15	15	30	70

<b>Course code</b> : GEOMC-201	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : Human Geography	4			4
<b>Semester /Year</b> : II				

**Course Objectives:**

**The objectives of this course are:**

1. To introduce and make them understand about different human dimensions related to culture, society, settlement and resources with their types and distribution.
2. The expected learning outcome would be the student will able to understand, identify and describe social, cultural and economic dynamics of society.

<b>Course code</b> : GEOMC-201	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : INTRODUCTION TO CLIMATOLOGY	03			03
<b>Semester</b> : II				

**Course Objectives**

**The objectives of this course are:**

1. To develop the knowledge of climatology.



2. To know about world climatology.
3. To develop the skill to prepare the project on climatology.

### Course Outcome

Upon successful completion of the course a:

Paper code	Paper name	Course outcome
GEOMC-201	Advance Climatology	<p>CO1- Students will be recall meaning, scope and importance of climatology.</p> <p>CO2- Students will be able to explain different components of atmosphere.</p> <p>CO3- They will be able to classify world climate classification.</p> <p>CO4-. Now they will be identifying highly climate disturb region.</p> <p>CO5-.They will be able to prepare assignment on world climate.</p> <p>CO6-.Now the students will be able to write about the meaning and factors responsible for the climate change.</p>

### CO-PO Mapping

Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2	3	3	-	-	3	2	3	-	-	1	1	3	3	3	3
CO2	3	3	3	-	2	-	1	3	-	1	1	1	3	3	3	3
CO3	3	3	3	-	-	2	3	2	-	1	2	1	3	3	3	3
CO4	3	3	3	-	-	2	3	3	-	1	2	2	3	3	3	3
													3	3	3	3
CO5	3	3	3	-	2	3	3	3	-	-	-	2	3	3	3	3
	3	3	3	-	2	3	3	3	-	-	1	3	3	3	3	3

### Course Contents

#### UNIT- I

Meaning, scope and development of climatology, Jet Stream, El- Nino, La- Nin, Walker circulation, precipitation & humidity.

#### UNIT -II

Air masses-origin, growth, classification, and distribution, Horizontal and Vertical motion of winds. Fronts and front genesis, cyclones and anticyclones; temperate and tropical cyclones;

#### UNIT -III

Climate classification of Koppen and Thornthwaite. Major Climate types, weather and human behaviour, Weather modification, atmospheric hazards, cloud bursts.

#### UNIT -IV



Climatic changes- definition & detection, Human impact on global climate, Global Warming, artificial climate and acid precipitation.

**Books Recommended :**

**Text Books:**

1. Chorley, R.G. AND Barry, R.G. : Atmosphere, Weather and Climate Methuen & Co. Ltd., London, 1995.
2. Critchfield, H.J.: General Climatology, Prentice Hall of India, New Delhi, 2002.
3. Sidharta, K.: Climatology, Kitab Mahal, New Delhi.
4. Trewartha, G.T. : An Introduction to Climate, McGraw Hill Series in Geography.
5. Miller, A. et al : World Climatology, Elbs and Edward Arnold, 1979.
6. <https://store.kortext.com/meteorology-climatology>
7. <https://www.ebooks.com/en-fk/book/210120003/an-introduction-to-climatology/sanjay-kumar/>
8. <https://www.kobo.com/ww/en/ebook/applied-climatology>

**Reference Books:**

1. Singh, Savindra : Climatology,, Prayag PustakBhawan, Allahabad.:
2. Singh, Savindra, JalvayuVigyan (in Hindi), PrayagPustakBhawan, Allahabad.

<b>Course code</b> : GEOMC-202	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : Practical Geography			4	2
<b>Semester /Year</b> : II				

**Examination Scheme:**

**Course Objectives:**

**The objectives of this course are:**

1. To introduce about basic concepts of astronomy, celestial bodies and to develop the understanding on cartographic techniques and skills of map projection.
2. At the end of the course students should be able to determine different and appropriate uses of map projection in various aspects of geographic representation.
3. To develop the skill to forecast the Indian daily weather.

**Course Outcomes**

**Upon successful completion of the course:**

Paper code	Paper name	Course outcome
GEOMC-201	Geography Practical	<p>CO1- Student will learn and prepare the list of different types of maps.</p> <p>CO2- Student will be able to discuss and prepare the outline of map.</p> <p>CO3- They will learn and practiced to complete the map projection.</p> <p>CO4- They will be able to interpret the weather map.</p> <p>CO5-Now students will be able to forecast weather of a region after</p>

*P Singh*

*Am*

*Ran*

*Ant*

*Shiv*



		interpretation of weather map. CO6- Now he will be able to write about projection ad weather maps in detail.
--	--	---

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	P
CO1	2	-	-	-	-	3	1	3	-	1	1	3	3	3	3	3
CO2	3	-	3	-	-	2	-	1	-	2	-	1	3	3	3	3
CO3	3	-	3	-	-	2	3	2	-	2	3	2	3	3	3	3
CO4	3	-	3	-	-	2	3	3	-	2	3	3	3	3	3	3
CO5	3	-	3	-	2	1	3	3	2	1	3	3	3	3	3	3
CO6	3	-	3	-	2	1	3	3	2	1	3	3	3	3	3	3
	2.8	-	2.5	-	0.6	1.8	2.2	2.5	0.6	1.5	2.2	2.5	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Maps- Definition, basic concepts and classification, Map composition.

#### Unit -2

Map Projections- classification, properties, choice, and merits and demerits.

#### Unit -3

Construction of Conical projection with one and two standard parallel, Bonne's, cylindrical equal area, Mercator's, and Polar Zenithal Equal Area map projection.

#### Unit -3

Study and interpretation of Indian Daily Weather Report Maps/reports of January, June and July.

#### Division of Marks

- Lab Work-One question from each section with internal choice.
- Sessional record and viva.

#### Reading List.

#### Text Books:

- Dent B. D., 1999: *Cartography: Thematic Map Design*, (Vol. 1), McGraw Hill.
- Gupta K. K and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
- Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept Publishing.

*P. Singh*

*Ran*

*Ran*

*Ant*

*Shri*



4. Robinson A., 1953: *Elements of Cartography*, John Wiley.
5. Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers.
6. 8. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.

**Reference Book:**

1. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
2. Singh R. L., 1998: *Prayogic Bhoogol Rooprekha*, Kalyani Publications.

1- <https://www.amazon.in/Understanding-Practical-Geography-Surveying-Secondary-ebook/dp/B076XDG8QS>

1.

[https://books.google.co.in/books/about/Elements\\_Of\\_Practical\\_Geography.html?id=bFJLYgEACAAJ&redir\\_esc=y](https://books.google.co.in/books/about/Elements_Of_Practical_Geography.html?id=bFJLYgEACAAJ&redir_esc=y)

**Websites:**

Indian Institute of Surveying & Mapping: <http://www.iism.nic.in/>

Survey of India Department of Science & Technology: <http://www.surveyofindia.gov.in/>

Indian National Cartographic Association: <https://incaindia.org/>

Bhuvan Indian Geo Platform of ISRO: <https://bhuvan.nrsc.gov.in/>

Bhuvan Indian Geo Platform of ISRO: <https://bhuvan.nrsc.gov.in/>

<b>Course code</b> : GEOVC-201	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : Regional Planning and development ( Skill Enhancement Course)	3			3
<b>Semester /Year</b> : II				

**Course Objectives: The objectives of this course are:**

1. To developed the analytical understanding of regional concepts, approaches and demarcation and to make the students aware about various plans adopted for regional developments.
2. Students will be able to critically evaluate the formal, functional and planning regions as well as they can evolve theoretical input for regional development.

**Course Outcomes**

**Upon successful completion of the course a:**

Paper code	Paper name	Course outcome
GEOVC-201	Regional Planning and	CO1- Students will find the concept of region



	development	<p>CO2- Students will be able to compare between different types of region.</p> <p>CO3- They will be able to classify different region on the basis of different natural and cultural components.</p> <p>CO4-. They will justify the limitation of a particular region.</p> <p>CO5-.They will be able to prepare a plan of natural regions in a political boundary as well as political regions.</p> <p>CO6- They will be able to prepare a design for the development region.</p>
--	-------------	--

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO3
CO1	3	-	3	1	1	-	3	2	-	-	3	2	3	3	3	3
CO2	3	-	3	1	1	-	3	2	-	-	3	2	3	3	3	3
CO3	3	-	3	2	-	-	3	2	-	-	3	2	3	3	3	3
CO4	3	-	3	3	-	-	3	3	-	-	2	3	3	3	3	3
CO5	3	-	3	1	1	-	3	3	-	-	1	3	3	3	3	3
CO6	2	-	3	1	1	-	3	3	-	-	1	3	3	3	3	3
	2.9		3	1.5	0.6		3	2.5	-	-	1.6	2.5	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Meaning, Concept, Need and Types of Regional Planning.

#### Unit -2

Regionalization of India for Planning (Agro climatic Zones).

#### Unit -3

Models for Regional Planning: Growth Pole Theory; Core Periphery Model and Growth Foci Concept in Indian Context.

#### Unit -4

Backward Regions and Regional Plans- Special Area.  
Development Plans in India; DVC & Tehri Dam -The Success Story and the Failures; - NITI Aayog.

### Reading List

#### Text Books:

1. Blij H. J. De, 1971: *Geography: Regions and Concepts*, John Wiley and Sons.

*Pheeg*

*Ry*

*la*

*Sm*



2. Claval P.I, 1998: *An Introduction to Regional Geography*, Blackwell Publishers, Oxford and

Massachusetts.

3. Friedmann J. and Alonso W. (1975): *Regional Policy - Readings in Theory and Applications*, MIT Press, Massachusetts.

4. Gore C. G., 1984: *Regions in Question: Space, Development Theory and Regional Policy*, Methuen, London.

5. Gore C. G., Köhler G., Reich U-P. and Ziesemer T., 1996: *Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention*, Metropolis- Verlag, Marburg.

6. Haynes J., 2008: *Development Studies*, Polity Short Introduction Series.

7. Johnson E. A. J., 1970: *The Organization of Space in Developing Countries*, MIT Press, Massachusetts.

8. Peet R., 1999: *Theories of Development*, The Guilford Press, New York.

9- Roger M Minshull, 1967; *Regional Geography*; Hutchinson University Library.

10. Singh R.L., 1971, India: *Regional Geography*; National Geographical Society of India, Varanasi.

11. Douglas L Johnson, Viola Haarmann, Merrill L Johnson, *World Regional Geography: A Development Approach*, 11th edition, July 2015, Pearson Publication.

**Reference Book:**

1. Alka Gautam, *Regional Geography of the world*, Sharda Pustak Bhawan, Allahabad.

1. <https://www.pearson.com/store/p/world-regional-geography-a-development-approach/P100002140235/9780137612697>

2. <https://www.indianculture.gov.in/ebooks/india-regional-geography>

<b>Course code</b> : GEOME-201	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Course Name</b> : Human Geography	4			4
<b>Semester /Year</b> : II				

**Course Objectives:**

**The objectives of this course are:**

3. To introduce and make them understand about different human dimensions related to culture, society, settlement and resources with their types and distribution.
4. The expected learning outcome would be the student will able to understand, identify and describe social, cultural and economic dynamics of society.





## Course Outcomes

Upon successful completion of the course a:

Paper code	Paper name	Course outcome
GEOME-201	Human Geography	<p>CO1- Students will recall the definition and branches of Geography.</p> <p>CO2- Now they are capable for examines and predicts the future of man in a particular natural region.</p> <p>CO3- They can classify world races on the basis of different parameters prepared by different geographers.</p> <p>CO4-. They can also categories world races, world religion, world linguistic region by themselves.</p> <p>CO5-.They will be able to rate the world cultural region.</p> <p>CO6- Now they will be able to compose few analytical lines on world culture, races, language, urban regions, and trends of urbanization.</p>

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	2	3	3	2	-	3	3	3	-	3	3	3	3	3	3	3
CO2	3	3	3	1	-	3	3	3	-	3	3	3	3	3	3	3
CO3	3	3	3	2	1	3	3	2	1	3	3	2	3	3	3	3
CO4	3	3	3	3	-	3	3	3	-	3	3	3	3	3	3	3
CO5	3	3	3	-	-	3	3	3	-	3	3	3	3	3	3	3
CO6	3	3	3	-	-	3	3	3	-	3	3	3	3	3	3	3
	2.8	3	3	1.3	0.2	3	3	2.8	0.2	3	3	2.8	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Definition, Nature, Major Subfields, Contemporary Relevance of Human Geography.

#### Unit -2

Space and Society: Cultural Regions; Race; Religion and Language

#### Unit -3

Population: Population Growth and Demographic Transition Theory.

#### Unit -4

World Population Distribution and Composition (Age, Gender and Literacy).  
Settlements: Types and Patterns of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization.

### Reading List

#### Text Books:

*[Handwritten signatures]*



1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
3. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
4. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
5. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
6. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
7. Ghosh, S. (2015) Introduction to settlement geography. Orient Black Swan Private Ltd., Kolkata.
- 8- <https://www.amazon.in/Introduction-Human-Geography-5th-edn-ebook/dp/B01FDYGTTS>
9. <https://www.amazon.in/INTRODUCTION-HUMAN-GEOGRAPHY-Jyotiram-Chandrakant-ebook/dp/B08B1QYG4X>

**Reference Book:**

2. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur.
3. Hussain, Majid (2012), Human Geography; Rawat Publications, Jaipur.

Course code	: GEOME-202	L	T	P	C
Course Name	: Practical Geography			4	2
Semester /Year	: II				

**Examination Scheme:**

**Course Objectives:**

**The objectives of this course are:**

4. To introduce about basic concepts of astronomy, celestial bodies and to develop the understanding on cartographic techniques and skills of map projection.
5. At the end of the course students should be able to determine different and appropriate uses of map projection in various aspects of geographic representation.
6. To develop the skill to forecast the Indian daily weather.

**Course Outcomes**

**Upon successful completion of the course:**

Paper code	Paper name	Course outcome
GEOME-202	Geography	CO1- Student will learn and prepare the list of different types



	Practical	<p>of maps.</p> <p>CO2- Student will be able to discuss and prepare the outline of map.</p> <p>CO3- They will learn and practiced to complete the map projection.</p> <p>CO4- They will be able to interpret the weather map.</p> <p>CO5-Now students will be able to forecast weather of a region after interpretation of weather map.</p> <p>CO6- Now he will be able to write about projection ad weather maps in detail.</p>
--	-----------	--

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	P
CO1	2	-	-	-	-	3	1	3	-	1	1	3	3	3	3	3
CO2	3	-	3	-	-	2	-	1	-	2	-	1	3	3	3	3
CO3	3	-	3	-	-	2	3	2	-	2	3	2	3	3	3	3
CO4	3	-	3	-	-	2	3	3	-	2	3	3	3	3	3	3
CO5	3	-	3	-	2	1	3	3	2	1	3	3	3	3	3	3
CO6	3	-	3	-	2	1	3	3	2	1	3	3	3	3	3	3
	2.8	-	2.5	-	0.6	1.8	2.2	2.5	0.6	1.5	2.2	2.5	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Maps- Definition, basic concepts and classification, Map composition.

#### Unit -2

Map Projections- classification, properties, choice, and merits and demerits.

#### Unit -3

Construction of Conical projection with one and two standard parallel, Bonne's, cylindrical equal area, Mercator's, and Polar Zenithal Equal Area map projection.

#### Unit -3

Study and interpretation of Indian Daily Weather Report Maps/reports of January, June and July.

### Division of Marks

- Lab Work-One question from each section with internal choice.
- Sessional record and viva.

### Reading List.

*[Handwritten signatures]*



**Text Books:**

1. Dent B. D., 1999: *Cartography: Thematic Map Design*, (Vol. 1), McGraw Hill.
2. Gupta K. K and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
3. Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept Publishing.
4. Robinson A., 1953: *Elements of Cartography*, John Wiley.
5. Sharma J. P., 2010: *PrayogicBhugol*, Rastogi Publishers.
6. 8. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.

**Reference Book:**

1. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
2. Singh R. L., 1998: *PrayogicBhoogolRooprekha*, Kalyani Publications.

1- <https://www.amazon.in/Understanding-Practical-Geography-Surveying-Secondary-ebook/dp/B076XDG8QS>

4.

[https://books.google.co.in/books/about/Elements\\_Of\\_Practical\\_Geography.html?id=bFJLYgEACAAJ&redir\\_esc=y](https://books.google.co.in/books/about/Elements_Of_Practical_Geography.html?id=bFJLYgEACAAJ&redir_esc=y)

**Websites:**

Indian Institute of Surveying & Mapping: <http://www.iism.nic.in/>  
Survey of India Department of Science & Technology: <http://www.surveyofindia.gov.in/>  
Indian National Cartographic Association: <https://incaindia.org/>  
Bhuvan Indian Geo Platform of ISRO: <https://bhuvan.nrsc.gov.in/>

Bhuvan Indian Geo Platform of ISRO: <https://bhuvan.nrsc.gov.in/>

2. <https://www.indianculture.gov.in/ebooks/india-regional-geography>

Course code	: GEOME-201	L	T	P	C
Course Name	: Human Geography	4			4
Semester /Year	: II				

**Course Objectives:**

**The objectives of this course are:**

5. To introduce and make them understand about different human dimensions related to culture, society, settlement and resources with their types and distribution.



6. The expected learning outcome would be the student will able to understand, identify and describe social, cultural and economic dynamics of society.

### Course Outcomes

Upon successful completion of the course a:

Paper code	Paper name	Course outcome
GEOME-201	Human Geography	<p>CO1- Students will recall the definition and branches of Geography.</p> <p>CO2- Now they are capable for examines and predicts the future of man in a particular natural region.</p> <p>CO3- They can classify world races on the basis of different parameters prepared by different geographers.</p> <p>CO4-. They can also categories world races, world religion, world linguistic region by themselves.</p> <p>CO5-.They will be able to rate the world cultural region.</p> <p>CO6- Now they will be able to compose few analytical lines on world culture, races, language, urban regions, and trends of urbanization.</p>

### CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	2	3	3	2	-	3	3	3	-	3	3	3	3	3	3	3
CO2	3	3	3	1	-	3	3	3	-	3	3	3	3	3	3	3
CO3	3	3	3	2	1	3	3	2	1	3	3	2	3	3	3	3
CO4	3	3	3	3	-	3	3	3	-	3	3	3	3	3	3	3
CO5	3	3	3	-	-	3	3	3	-	3	3	3	3	3	3	3
CO6	3	3	3	-	-	3	3	3	-	3	3	3	3	3	3	3
	2.8	3	3	1.3	0.2	3	3	2.8	0.2	3	3	2.8	3	3	3	3

3: Highest Correlated, 2: Medium Correlated, 1: Lowest Correlated

### Course Contents

#### Unit -1

Definition, Nature, Major Subfields, Contemporary Relevance of Human Geography.

**Unit -2** Space and Society: Cultural Regions; Race; Religion and Language

**Unit -3** Population: Population Growth and Demographic Transition Theory.

**Unit -4** World Population Distribution and Composition (Age, Gender and Literacy). Settlements: Types and Patterns of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization.

### Reading List

*[Handwritten signatures]*



**Text Books:**

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
3. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell  
Publication.
4. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
5. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
6. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
7. Ghosh, S. (2015) Introduction to settlement geography. Orient Black Swan Private Ltd., Kolkata.
- 8- <https://www.amazon.in/Introduction-Human-Geography-5th-edn-ebook/dp/B01FDYGTTS>
9. <https://www.amazon.in/INTRODUCTION-HUMAN-GEOGRAPHY-Jyotiram-Chandrakant-ebook/dp/B08B1QYG4X>

**Reference Book:**

5. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur.
6. Hussain, Majid (2012), Human Geography; Rawat Publications, Jaipur.

*Pfing*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*