

GEOGRAPHY DEPARTMENT
HIMACHAL PRADESH UNIVERSITY
OUTLINE OF COURSES OF READING AND SYLLABI
IN THE SUBJECT OF GEOGRAPHY FOR B.A. / B. Sc.
WITH MAJOR IN GEOGRAPHY AND MINOR ELECTIVE IN GEOGRAPHY
(2013-2014 onwards)

(A) Structure Outline of Major in Geography (Minimum Credits to be Earned=56)

Semester	Course Code	Course Type	Course Name	Credit(s)	Cumulated Credits Category-wise
I (Odd)		Compulsory Course I	To be Selected from the list of Compulsory Courses	3	Compulsory – 6 Core – 8 Elective – 8 GI & H – 1 Total – 23
		Compulsory Course II (Skill Based)	To be Selected from the list of Compulsory Courses (Skill Based)	3	
	BA/B.SC GEOG 0101	Major Core Course I	Introduction to Geography	4	
	BA/B.SC GEOG 0102	Major Core Course II	Regional Geography of the World	4	
		Minor Elective Course I (a)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Minor Elective Course I (b)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		GI and H Course I	To be Selected from the list GI and Hobby Courses	1	
II (Even)		Compulsory Course III	To be Selected from the list of Compulsory Courses	3	Compulsory – 6 (12) Core – 8 (16) Elective – 8 (16) GI & H – 1 (2) Total 23 (46)
		Compulsory Course IV(Skill Based)	To be Selected from the list of Compulsory Courses (Skill Based)	3	
	BA/B.SC GEOG 0203	Major Core Course III	Climatology	4	
	BA/B.SC GEOG 0204	Major Core Course IV	Maps and Diagrams (Theory & Practical)	4	
		Minor Elective Course II (a)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Minor Elective Course II (b)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		GI and H Course II	To be Selected from the list GI and Hobby Courses	1	
III (Odd)		Compulsory Course V	To be Selected from the list of Compulsory Courses	3	Compulsory – 6 (18) (Complete) Core – 8 (24) Elective – 8 (24) GI & H – 1 (3)
		Compulsory Course VI	To be Selected from the list of Compulsory Courses (Skill Based)	3	

Semester	Course Code	Course Type	Course Name	Credit(s)	Cumulated Credits Category-wise
	BA/B.SC GEOG 0305	Major Core Course V	The Earth: Origin, Evolution and Structure	4	(Complete) Total 23 (69)
	BA/B.SC GEOG 0306	Major Core Course VI	Elements of Geomorphology	4	
		Minor Elective Course III (a)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Minor Elective Course III(b)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		GI and H Course III	To be Selected from the list GI and Hobby Courses	1	
IV (Even)	BA/B.SC GEOG 0407	Major Core Course VII	Oceanography	4	Core – 12 (36) Elective – 8 ((32) Core / Elective (additional) - 4 Total 24 (93)
	BA/B.SC GEOG 0408	Major Core Course VIII	Physical Geography of India	4	
	BA/B.SC GEOG 0409	Major Core Course IX	Human Geography of India	4	
		Minor Elective Course IV (a)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Minor Elective Course IV (b)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Core / Elective Course (Additional)*		4	
V (Odd)	BA/B.SC GEOG 0510	Major Core Course X	Principles of Human Geography	4	Core – 12 (48) Elective – 8 (40) (Complete) Core / Elective (additional) - 4 Total 24 (117)
	BA/B.SC GEOG 0511	Major Core Course XI	Map Projections	4	
	BA/B.SC GEOG 0512	Major Core Course XII	Comprehensive Geography of Himachal Pradesh	4	
		Minor Elective Course V(a)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Minor Elective Course V(b)	To be Selected from the list for Minor Elective Subject other than Geography	4	
		Core / Elective Course (Additional)*	Any one of the Additional or open elective courses	4	
VI (Even)	BA/B.SC GEOG 0613	Major Core Course XIII	Field Survey(Physical/Socio-Economic) and Preparation of Project Report	4	Core – 8 (56) Core / Elective (additional) – 20* Total 28 (145)

***Additional Elective Courses offered by Geography Department (can be chosen for earning credits over and above 56 Major subject credits, 40 Minor elective credits, 9 Compulsory course credits and G I & H Course credits)**

Semester	Course Code	Course Type	Course Name	Credit(s)	Cumulated Credits Category-wise
V / VI	BA/B.SC GEOG 5615	Core / Elective Course (Additional)*	Population Geography	4	
V / VI	BA/B.SC GEOG 5616	Core / Elective Course (Additional)*	Economic Geography	4	
V / VI	BA/B.SC GEOG 5617	Core / Elective Course (Additional)*	Regional Geography of India	4	
V / VI	BA/B.SC GEOG 5618	Core / Elective Course (Additional)*	Social Geography	4	
V / VI	BA/B.SC GEOG 5619	Core / Elective Course (Additional)*	Environmental Geography	4	
V / VI	BA/B.SC GEOG 5620	Core / Elective Course (Additional)*	Fundamentals of Remote Sensing	4	
V / VI	BA/B.SC GEOG 5621	Core / Elective Course (Additional)*	Fundamentals of GIS	4	
V / VI	BA/B.SC GEOG 5622	Core / Elective Course (Additional)*	Evolution of Geographical Thought	4	

Compulsory and General Interest / Hobby Courses Offered by Geography Department

Semester	Course Code	Course Type	Course Name	Credit (s)	Cumulated Credits
(Odd)	BA/B.SC GEOG 0512	Compulsory	Geography of Himachal Pradesh	3	
(Even)	BA/B.SC GEOG 4489	GI	Geography of India (For Competitive Examinations)	3	
(Odd)	BA/B.SC GEOG 0100	GI / H	The World: Map Appreciation	2	

(B) Structure Outline of Minor Elective in Geography for other than Major Geography Students (Minimum Credits to be Earned=20)

Semester	Course Code	Course Name	Course Name	Credit(s)	Cumulated Credits Category-wise
I (Odd)		Compulsory Course I		3	Compulsory – 6 Core – 8 Minor Elective 1(a) – 4(4) Minor Elective 1(b)=4 Total Minor Electives – 8 (8) GI & H – 1 Total – 23
		Compulsory Course II (Skill Based)		3	
		Major Core Course I		4	
		Major Core Course II		4	
	BA/B.SC GEOG 0101/0102	Minor Elective Course I (a)	Introduction to Geography / Regional Geography of the World	4	
		Minor Elective Course I (b)		4	
		GI and H Course I		1	
II (Even)		Compulsory Course III		3	Compulsory – 6 (12) Core – 8 (16) Minor Elective 1I(a) – 4 (8) Minor Elective II(b) – 4 (8) Total Minor Electives – 8 (16) GI & H – 1 (2) Total 23 (46)
		Compulsory Course IV (Skill Based)		3	
		Major Core Course III		4	
		Major Core Course IV Optics		4	
	BA/B.SC GEOG 0203/0204	Minor Elective Course II (a)	Climatology / Maps and Diagrams (Theory & Practical)	4	
		Minor Elective Course II (b)		4	
		GI and H Course II		1	
III (Odd)		Compulsory Course V		3	Compulsory – 6 (18) (Complete) Core – 8 (24) Minor Elective 1III(a) – 4 (12) Minor Elective III(b) – 4 (12) Elective – 8
		Compulsory Course VI		3	
		Major Core Course V		4	
		Major Core Course VI	-----	4	
	BA/B.SC GEOG 0305/0306	Minor Elective Course III (a)	The Earth: Origin, Evolution and Structure / Elements of Geomorphology	4	

Semester	Course Code	Course Name	Course Name	Credit(s)	Cumulated Credits Category-wise
		GI and H Course III	-----	1	(24) GI & H – 1 (3) (Complete) Total 23 (69)
IV (Even)		Major Core Course VII	-----	4	Core – 12 (36)
		Major Core Course VIII	-----	4	Minor Elective IV(a) – 4 (16)
		Major Core Course IX	-----	4	Minor Elective IV(b) – 4 (16)
	BA/B.SC GEOG 0407/0408/0409	Minor Elective Course IV (a)	Oceanography/ Physical Geography of India/ Human Geography of India	4	Total Minor Electives – 8 (32)
		Minor Elective Course IV (b)	-----	4	Core / Elective (additional) - 4
		Core / Elective Course	-----	4	Total 24 (93)
V (Odd)		Major Core Course X	-----	4	Core – 12 (48)
		Major Core Course XI	-----	4	Minor Elective V(a) – 4 (20)
		Major Core Course XII	-----	4	Minor Elective V(b) – 4 (20)
	BA/B.SC GEOG 0510/0511/0512	Minor Elective Course V(a)	Principles of Human Geography/ Map Projections / Comprehensive Geography of Himachal Pradesh	4	Total Minor Electives – 8 (40)
		Minor Elective Course V(b)	-----	4	(Complete) Core / Elective (additional) - 4
		Core / Elective Course (Additional)*	Population Geography/ Environmental Geography	4	Total 24 (117)
VI (Even)		Major Core Course XIII	-----	4	Core – 8 (56)
		Major Core Course XIV	-----	4	Core / Elective (additional) –

Semester	Course Code	Course Name	Course Name	Credit(s)	Cumulated Credits Category-wise
		Core / Elective Course (Additional)*	Field Survey(Physical/Socio-Economic) and Preparation of Project Report	4	20* Total 28 (145)
		Core / Elective Course (Additional)*	Resource Geography	4	
		Core / Elective Course (Additional)*	Economic Geography/ Fundamentals of Remote Sensing	4	
		Core / Elective Course (Additional)*	Regional Geography of India/ Fundamentals of GIS	4	
		Core / Elective Course (Additional)*	Social Geography/ Evolution of Geographical Thought	4	

**OUTLINE OF SYLLABI AND COURSES OF READING
IN THE SUBJECT OF GEOGRAPHY FOR B.A. / B. Sc.
WITH MAJOR IN GEOGRAPHY AND MINOR ELECTIVE IN GEOGRAPHY
(2013-2014 onwards)**

COURSE: INTRODUCTION TO GEOGRAPHY (0101)

Course Code	BA/B.SC GEOG 0101		
Credits-4	L	T	P
	31	14	30*(15)
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce students to the basic understanding about Geography and its emergence as a branch of knowledge. It also aims to teach the students about the geometry of earth, core themes in the subject of Geography and role of skills in Geography.

Continuous Comprehensive Assessment (CCA) Pattern: Maximum Marks Allotted: 50

Minor Test* (Marks)		Class Test/ Tutorials/Assignments (Marks)	Quiz/Seminars (Marks)	Attendance (Marks)	Total Marks
Test - I	15	10	5	5	
Test - II	15				
Total	30	10	5	5	

* The pattern of examination for conducting the minor test will be same as prescribed for the end semester examination.

End Semester Examination System: Maximum Marks Allotted: 50

Components	Maximum Marks Allotted	Minimum Pass Marks	Time Allotted
Theory	35	16	3.00 Hrs
Practical	15	7	3.00 Hrs
Total	50	23	6.00 Hrs

Paper Setting Scheme (Theory Paper)

Section	No of Questions	Syllabus Coverage	Nature of Questions and Answers	Questions to be Attempted	Maximum Marks
A	10	Complete	Objective Type	10(0.5 mark each)	5
B	5	Complete	Short answer type (25 words)	5(1.5 marks each)	7.5
C	10	Complete	Medium answer type (50 words)	5(2.5 marks each)	12.5
D	3	Complete	Long answer type (1000 words)	1(10 marks each)	10
Total					35

Note: Use of non-programmable calculators and map stencils are allowed in the examination hall.

Marks Allocation Scheme (Practical Paper)

Particulars	Maximum Marks
Practical Record*	7
Written/Lab Work	5
Viva-Voce	3
Total	15

Note: Use of non-programmable calculators and map stencils are allowed in the examination hall.

* The practical record may be evaluated on the parameters of Punctuality, Neatness, Entirety and Indexing.

Course Content and Credit Scheme

Unit	Topic	Allotted Time Hours		
		L	T	P
I.	DEFINING THE FIELD I. Meaning II. Nature III. Scope IV. Relevance V. A Brief Introduction to Emergence of Geography as a Scientific Discipline	10	4	0
II.	BASICS IN GEOGRAPHY I. Motions of Earth a. Rotation and Revolution of Earth and Their Effects b. Time Zones & International Date Line II. Dimension of Earth a. Shape & Size b. Geoid, Spheroid and Ellipsoid III. Concept of Coordinate System a. Geographic Coordinate System of Earth	10	5	
III.	GEOGRAPHY'S CORE CONCEPTS/ FIVE MAJOR THEMES I. Location a. Absolute b. Relative II. Place/ Space a. Physical Characteristics b. Human Characteristics III. Human-Environment Interaction a. Dependence b. Modification c. Adaptation IV. Movements a. Human b. Information c. Idea V. Regions a. Types i. Formal ii. Functional iii. Vernacular VI. A Neighbourhood Project on any one Theme	6	4	10(5)
IV.	BASIC SKILLS IN GEOGRAPHY I. Map as a Tool of Geographer II. Instrumental Surveys	5	1	20(10)

	a. Plane Table: Open & Traverse Method b. Prismatic Compass: Open & Traverse Method III. Cartography a. Traditional b. Computer-assisted IV. Remote Sensing (RS) a. Meaning, Concept and Types of RS b. Electromagnetic Spectrum V. Geographic Information System (GIS) a. Meaning, Components and Importance of GIS			
	Total Hours	31	14	30* (15)

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit. Therefore, in this course paper, the laboratory/ field work and preparation of practical record for additional 15 hours *over and above* prescribed 60hours limit will be completed during either on Friday/Saturday of a week (@ 1hour/day for 15 days).

Text Book(s):

Jordan T. G. and Rowntree L. 1999. *The Human Mosaic: A Thematic Introduction to Cultural Geography*. (8th ed.). Addison Wesley Longman Publishers, New York.

Suggested Readings:

Stoddart, R.H. Wishart, D.J. and Blouct, B.W. 1989. *Human Geography: People, Places and Cultures*. Prentice Hall, New Jersey.

Wagner, P.L. and Mikesell, M.W. 1962. *Readings in Cultural Geography*. The University of Chicago Press, Chicago.

Phillip C. Muehrcke. 1978. *Map Use: Reading Analysis and Interpretation*. JP Publications, Madison, WI.

John Campbell. 1991. *Map Use and Analysis*. Wm. C. Brown Publishers, Dubuque, Indiana USA.

COURSE: REGIONAL GEOGRAPHY OF THE WORLD (0102)

Course Code	BA/B.SC GEOG 0102		
Credits-4	L	T	P
	31	14	30 (15)
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce the students about the conceptualization of region, components of regions and bases of regionalization. It is also intended to provide the basic knowledge about the major climatic regions of the world.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course 0101

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	INTRODUCTION TO REGIONAL GEOGRAPHY i. Region – Definition ii. Methods of Delineation of Regions – Formal And Functional Regions iii. Natural components of regions a. Landforms: Types and Distribution b. Climate: Types and Distribution c. Soils: Types and Distribution d. Natural Vegetation: Types and Distribution iv. Bases of Regionalization	7	2	0
II.	HOT REGIONS (Location and Characteristic Features) a. Equatorial Region i. Highland and Lowland Regions b. Tropical Region; i. Monsoon Region ii. Tropical Grassland iii. Tropical Deserts	8	4	0
III.	WARM TEMPERATE REGIONS (Location and Characteristic Features) i. Warm Temperate Regions a. Mediterranean b. Temperate Grasslands c. China type	8	4	0
IV.	COOL TEMPERATE & POLAR REGIONS (Location and Characteristic Features) i. Cool Temperate Regions: a. British Type or Marine West coasts b. Siberian Type c. Laurentian Type ii. Polar Regions a. Highland or Ice cap Type b. Lowland or Tundra Type iii. Project on any One Region	8	4	30(15)*
	Total Hours	31	14	30 (15)*

L-Lecture, T-Tutorial and P-Practical and Practices

*As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit. Therefore, in this course paper, the laboratory/ field work and preparation of practical/project record/report for additional

15 hours *over and above* prescribed 60hours limit will be completed during either on Friday/Saturday of a week (@ 1hour/day for 15 days).

Text Book(s):

Heintzelman O.H., Richard *et al.* 1965. *World Regional Geography*. Prentice Hall of India (P) Ltd. New Delhi.

Suggested Readings:

Tikha,R.N., Bali, P.K. and Sekhon, M.S. 2010. *World Regional Geography*. New Academic Publishing Company, New Delhi.

Minshull R.1967. *Regional Geography: Theory and Practice*. Hutchinson University Library, London.

COURSE: CLIMATOLOGY (0203)

Course Code	BA/B.SC GEOG 0203		
Credits-4	L	T	P
	40	20	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: This course is intended to provide the students an understanding about the different elements of climate and the underlying processes in their operations.

Continuous Comprehensive Assessment (CCA) Pattern: Maximum Marks Allotted: 50

Minor Test* (Marks)		Class Test/ Tutorials/Assignments (Marks)	Quiz/Seminars (Marks)	Attendance (Marks)	Total Marks
Test -I	15	10	5	5	
Test - II	15				
Total	30	10	5	5	

* The pattern of examination for conducting the minor test will be same as prescribed for the end semester examination.

End Semester Examination System: Maximum Marks Allotted: 50

Maximum Marks Allotted	Minimum Pass Marks	Time Allotted
50	23	3.00 Hrs

Paper Setting Scheme

Section	No of Questions	Syllabus Coverage	Nature of Questions and Answers	Questions to be Attempted	Maximum Marks
A	10 (1 mark each)	Complete	Objective Type	10	10
B	5(2 marks each)	Complete	Short answer type (25 words)	5	10
C	10(3 marks each)	Complete	Medium answer type (50 words)	5	15
D	3(15 marks each)	Complete	Long answer type (1000 words)	1	15

Note: Use of non-programmable calculators and map stencils are allowed in the examination hall.

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	Introduction i. Meaning and Nature of Climatology ii. Composition & Structure of Atmosphere iii. Factors influencing distribution of Insolation and Temperature, Inversion of temperature and Heat Budget	11	6	0
II.	Atmospheric Pressure & Wind System I. Horizontal and Vertical Distribution of Pressure II. Pressure and Wind System III. Seasonal and Local Winds	10	5	0
III.	Atmospheric Moisture I. Processes of evaporation, Types of Humidity and Hydrological Cycle II. Condensation and its Types, Clouds and Their Types III. Rainfall and its Types	10	5	0
IV.	Airmass and Atmospheric Disturbances I. Airmass: Meaning, Characteristics, Source Region and Classification and Modification II. Atmospheric disturbances: Cyclones: Temperate and Tropical	9	4	0
	Total Hours	40	20	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Trewartha, G. T. 1968. *An Introduction to Climate*. McGraw-Hill Book Company, New York.
D.S. Lal. 1998. *Climatology*. Chaitanya Publishing House, Allahabad.

Suggested Readings:

Critchfield, J. Howard. 2012. *General Climatology*. 4th Edition (Reprinted). Phi Learning Pvt. Ltd., New Delhi.

Das, P. K. 2011. *The Monsoons*. National Book Trust, New Delhi

COURSE: MAPS AND DIAGRAMS (THEORY AND PRACTICAL) (0204)

Course Code	BA/B.SC GEOG 0204		
Credits-4	L	T	P
	20	10	60*(30)
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce students to some of the basic concepts in the preparation of maps and diagrams and their appreciation in Geography.

Continuous Comprehensive Assessment (CCA) Pattern: Maximum Marks Allotted: 50

Minor Test* (Marks)		Class Test/ Tutorials/Assignments (Marks)	Quiz/Seminars (Marks)	Attendance (Marks)	Total Marks
Test -I	15	10	5	5	50
Test - II	15				
Total	30	10	5	5	

* The pattern of examination for conducting the minor test will be same as prescribed for the end semester examination.

End Semester Examination System:

Components	Maximum Marks Allotted	Minimum Pass Marks	Time Allotted
Theory	25	11.50	3.00 Hrs
Practical	25	11.50	3.00 Hrs
Total	50	23	6.00 Hrs

Paper Setting Scheme (Theory Paper)

Section	No of Questions	Syllabus Coverage	Nature of Questions and Answers	Questions to be Attempted	Maximum Marks
A	10	Complete	Objective Type	10(0.5 mark each)	5
B	5	Complete	Short answer type (25 words)	5(1 marks each)	5
C	10	Complete	Medium answer type (50 words)	5(1.5 marks each)	7.5
D	3	Complete	Long answer type (1000 words)	1(10 marks each)	7.5
Total					25

Marks Allocation Scheme (Practical Paper)

Particulars	Maximum Marks
Practical Record*	10
Written/Lab Work	10
Viva-Voce	5
Total	25

Note: Use of non-programmable calculators and map stencils are allowed in the examination hall.

* The practical record may be evaluated on the parameters of Punctuality, Neatness, Entirety and Indexing.

Course Content and Credit Scheme

Unit	Topic	Allotted Time Hours		
		L	T	P
I.	CARTOGRAPHY	5	2	12* (6)
	I. Cartography as a Science of Communication and Basics of Map Reading			
	II. Scale- Definition, Importance and Types of Scale			
	III. Maps- Definition, Classification and Significance of Maps			

II.	REPRESENTATION OF RELIEF FEATURES I. Methods of representing Relief- Qualitative and Quantitative II. Profiles: Definition and Types	5	2	12* (6)
III.	TOPOGRAPHICAL MAPS I. History of Topographical Maps in India II. Importance of Topographical Maps and Extraction of Information From Topographical Sheets III. Open Series Maps(OSM) and Their Sequencing	5	3	12* (6)
IV.	REPRESENTATION OF DATA I. Different Types of Data, Scales of Measurement: Nominal, Ordinal, Interval and Ratio II. Methods of Representing Data: Line Graph, Columnar Diagrams, Isopleth and Choropleth Maps, Dot Method, Climograph and Hythergraph	5	3	24* (12)
	Total Hours	20	10	60*(30)

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit hour. Therefore, in this course paper, the laboratory work and preparation of practical record file for additional 30hours *over and above* prescribed 60hours limit will be completed during either on Friday and / Saturday of a week (@ 1hour/day for 30days).

Text Book(s):

Singh, R.L and Rana, P.B. 2002. *Elements of Practical Geography*. Kalayani Publishers, New Delhi.

Suggested Readings:

Khullar, D.R. 2000. *Essentials of Practical Geography*. New Academic Publishing Company, Jalandhar.

Menno-JanKraak and Ferjan Ormeling(2005) Cartography- Visulaization of Geospatial Data (2nd Edition) Pearson Publication.

COURSE: THE EARTH: ORIGIN, EVOLUTION AND STRUCTURE (0305)

Course Code	BA/B.SC GEOG 0305		
Credits-4	L	T	P
	31	14	30 (15)*
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce students as to how the Earth has come into existence, what material it is made up of and how does it behave?

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course 0101

Course Content and Credit Scheme

Unit	Topic	Allotted Time Hours		
		L	T	P

I.	BASIC CONCEPTS I. Brief Introduction to Solar System, Origin of Earth: Tidal Theory of Jeans and Jeffreys; and Big Bang Theory II. Rocks: Classification and Their Characteristics III. Internal Structure of the Earth	9	4	0
II.	I. EARTH MOVEMENTS II. Endogenetic forces: Orogenetic and Epeirogenetic Forces III. Types of Folds And Faults IV. Sliding Continent Theory of Mountain Building by Daly	7	4	0
III.	ORIGIN OF CONTINENTS AND OCEAN BASINS-SOME VIEWS I. Isostasy- Airy and Pratt's concepts II. Wegener's Theory of Continental Drift III. Plate Tectonic Theory	8	3	0
IV.	SUDDEN FORCES I. Volcanoes: Components, Classification, Causes and World Distribution of Volcanoes II. Earthquakes: Concept and Causes of Earthquakes, Distribution and Effects of Earthquakes III. Project on Any Selected Theme of the Entire Course	7	3	30 (15)*
	Total Hours	31	14	30 (15)*

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit hour. Therefore, in this course paper, the laboratory work and preparation of practical record file for additional 15 hours *over and above* prescribed 60hours limit will be completed during either on Friday and / Saturday of a week (@ 1hour/day for 15 days).

Text Book(s):

Singh, Savindra. 2000. *Geomorphology*. Prayag Pustak Bhawan, Allahabad.

Suggested Readings:

Dayal, P. 2010. *A Text Book of Geomorphology*. Rajesh Publishers, New Delhi

COURSE: ELEMENTS OF GEOMORPHOLOGY (0306)

Course Code	BA/B.SC GEOG 0306		
Credits-4	L	T	P
	31	14	30 (15)*
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce the students to some of the basic concepts about the nature and formation of different types of landforms covering the earth surface.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course 0101

Course Content and Credit Scheme

Unit	Topic	Allotted Time Hours		
		L	T	P
I.	INTRODUCTION I. 1. Meaning, Nature and Scope of Geomorphology II. 2. Weathering and Mass Movements: Meanings, Factors Affecting and Types	9	4	0
II.	DRAINAGE PATTERNS AND FLUVIAL LANDSCAPE I. Meaning and Types Of Drainage Patterns II. Erosional and Depositional Work and Landforms of River III. Normal Cycle of Erosion	7	4	0
III.	GLACIAL AND ARID LANDFORMS I. Types of Glaciers, Erosional and Depositional Work and Landforms of Glaciers II. Erosional and Depositional Work of Wind and Landforms of Arid Environment	8	3	0
IV.	KARST AND COASTAL LANDFORMS I. Meaning and Components of Groundwater, Erosional and Depositional Landforms II. Processes of Marine Erosion, Erosional and Depositional Landforms III. Project on Any Selected Theme of the Entire Course	7	3	30 (15)*
	Total Hours	31	14	30 (15)*

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit hour. Therefore, in this course paper, the laboratory work and preparation of practical record file for additional 15 hours *over and above* prescribed 60hours limit will be completed during either on Friday and / Saturday of a week (@ 1hour/day for 15 days).

Text Book(s):

Singh, Savindra (2000). *Geomorphology*. Prayag Pustak Bhawan

Suggested Books/Readings:

Dayal, P. 2010. *A Text Book of Geomorphology*. 3rd Edition. Rajesh Publishers, New Delhi

Kale, V. S. 2010. *Introduction to Geomorphology*. Orient Blackswan, Hyderabad, Andhra Pradesh

COURSE: OCEANOGRAPHY (0407)

Course Code	BA/B.SC GEOG 0407		
Credits-4	L	T	P
	46	14	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce the students about the fundamentals of oceanography. By the end of the course, a student will have a clear

understanding about the origin of oceans, configuration, oceanic water properties and their importance to mankind.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	Introduction to Oceanography and Relief of the Ocean Floor I. Meaning, Scope and Importance of Oceanography II. Global Water Budget II. Configuration of Pacific and Indian Ocean Floors	9	4	0
II.	Characteristics of Ocean Water I. Composition of Ocean Water II. Temperature in the Oceans a. Factors Affecting Distribution of Temperature b. Horizontal and Vertical Distribution III. Salinity in the oceans a. Factors Controlling Salinity b. Horizontal and Vertical Distribution IV. Density in the Oceans a. Factors Controlling Density b. Horizontal and Vertical Distribution	12	4	0
III.	Movement of Oceanic Water I. Waves and Tides a. Waves, Their Structure, Kinds b. Wave Generated Currents, Catastrophic Waves II. Tides a. Origin and Types of Tides b. Effects of Tides III. Oceanic Currents a. Origin and Types b. Currents of Pacific, Atlantic and Indian Ocean	12	3	0
IV.	Ocean Deposits, Coral Landforms and Man and Ocean I. Ocean Deposits a. Sources and Kinds of Marine Deposits	13	3	0

	II.	b.	Horizontal and Vertical Distribution Coral Reefs			
		a.	Conditions for Coral Growth			
		b.	Types of Coral Landforms			
		c.	Zonation and Distribution			
	II.		Man and Oceans			
		a.	Oceans and Climate			
		b.	Food supply from Oceans			
	Total Hours			46	14	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s): Sharma, R.C. and Vatal, M. 2011. *Oceanography for Geographers*. Reprinted, Chaitanya Publishing House, New Delhi.

Suggested Readings:

Gautam, Alka. 2004. *Climatology and Oceanography*. Rastogi Publication-Meerut, UP.

Singh, Savindera. 2009. *Physical Geography*. Vasundhra Publications, Gorkhpur, UP.

COURSE: PHYSICAL GEOGRAPHY OF INDIA (0408)

Course Code	BA/B.SC GEOG 0408		
Credits-4	L	T	P
	44	16	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce the physical aspects of Indian Geography to the students. By the end of the course student will have a clear understanding about the location, physical divisions, drainage system, climate, soils, vegetation and hazards affecting Indian Territory.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	A GEOGRAPHIC BACKGROUND I. Introduction i. Geographical Location ii. Unity in Diversity iii. Geostrategic Importance II. Physiographic Divisions of India i. Northern Mountains ii. Great Plains iii. Peninsular Plateau iv. Coastal Plains and Islands	11	4	0
II.	DRAINAGE AND CLIMATE I. Drainage System of India i. Major Drainage Systems- Comparison between Himalayan and Peninsular River System	11	4	0

	<ul style="list-style-type: none"> ii. River Water Pollution and Conservation <p>II. Climate of India</p> <ul style="list-style-type: none"> i. Factors Affecting Climate ii. Summer and Winter Monsoon iii. Western Disturbances iv. Spatial Pattern of Precipitation v. Climatic Classification by Koppen 			
III.	<p>SOILS AND NATURAL VEGETATION</p> <p>I. Soils of India</p> <ul style="list-style-type: none"> i. Factors of Soil Formation ii. Classification and Spatial Distribution iii. Degradation and Conservation <p>II. Natural Vegetation of India</p> <ul style="list-style-type: none"> i. Factors affecting distribution of vegetation ii. Vegetation Types and Spatial Distribution iii. Depletion of Natural Vegetation and their Conservation iv. National Forest Policy and Social Forestry 	11	4	0
IV.	<p>Hazards and their Mitigation</p> <p>I. Meaning and Type</p> <ul style="list-style-type: none"> i. Earthquake ii. Cyclones iii. Floods <p>II. Mitigation Strategies</p>	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Gautam, Alka. 2004. *Geography of India*. Rastogi Publication-Meerut, UP.

Khullar, D.R. 2009. *India: A Comprehensive Geography*. Kalyani Publisher, New Delhi.

Suggested Readings:

Rao B.P. 2008. *Bharat Ki Bhogolik Samiksha*. Vasundhra Prakashan, Gorkhpur

Sharma T.C. 2007. *Economic and Commercial Geography of India*. Vikas Publishing House, New Delhi.

COURSE: HUMAN GEOGRAPHY OF INDIA (0409)

Course Code	BA/B.SC GEOG 0409		
Credits-4	L	T	P
	44	16	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: This course is intended to introduce the human aspects of Indian Geography to the students. By the end of the course the student will have a clearer view of the spatial distribution of human and economic resources in India.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I	HUMAN RESOURCE I. General Demographic Scene II. Growth of Population III. Distribution and Density of Population IV. Literacy Differentials V. Sex Composition VI. Population Problems and its Remedial Measures	11	4	0
II	Agricultural Scenario I. Agriculture a. Major Features and Problems b. Green Revolution and Its Impact II. Food Crops a. Wheat b. Rice III. Cash Crops a. Cotton b. Tea	11	4	0
III	Mineral & Energy Resources I. Metallic Minerals- Iron ore II. Non-Metallic Minerals- Mica III. Conventional and Non Conventional Energy Resources- Coal, Petroleum Hydro-power and Nuclear Energy	11	4	0
IV	Major Manufacturing Industries I. Factors influencing the location of industries II. Case study of Cotton, Iron and Steel and Paper Industries III. Major Industrial Regions- Mumbai- Pune and Hugli-Kolkata	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Gautam, Alka. 2004. *Geography of India*. Rastogi Publication-Meerut, UP.

Khullar, D.R. 2009. *India: A Comprehensive Geography*. Kalyani Publisher, New Delhi.

Suggested Readings:

Rao B.P. 2008. *Bharat Ki Bhogolik Samiksha*. Vasundhra Prakashan, Gorkhpur

Sharma T.C. 2007. *Economic and Commercial Geography of India*. Vikas Publishing House, New Delhi.

COURSE: PRINCIPLES OF HUMAN GEOGRAPHY (0510)

Course Code	BA/B.SC GEOG 0510		
Credits-4	L	T	P
	44	16	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		
Pre-Requisite Required	None		

Course Objective: This course introduces the students to the fundamental principles of Human Geography in its various facets such as population, settlements and residence etc.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I	INTRODUCTION i. Meaning, Nature and Scope of Human Geography ii. Basic Thoughts in Human Geography: Determinism and Possibilism	11	4	0
II	POPULATION i. Spatial Distribution And Density of World Population ii. Factors Affecting The Distribution And Density of World Population iii. Malthusian Theory of Population Growth, Demographic Transition Theory	11	4	0
III	HUMAN SETTLEMENTS i. Classification of Settlements ii. Function and Pattern of Rural Settlements	11	4	0
IV	URBANISATION i. Functional Classification of Towns, Basis of Urban Settlements ii. Urbanization in India- Level, Trends and Problems	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Husain, Majid. 2010. *Human Geography*. Repinted. Rawat Publications, Jaipur.

Suggested Readings:

Singh, R.L. 2012. *Fundamentals of Human Geography*. Sharda Publications, Varanasi, UP.

Pitzl, Gerald. R. 2007. *Encyclopedia of Human Geography*. Greenwood Publishing Group & Rawat Publications, Jaipur

COURSE: MAP PROJECTIONS (0511)

Course Code	BA/B.SC GEOG 0511		
Credits-4	L	T	P
	20	10	60*(30)
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: This course introduces students to the art of transforming the spherical surface of the earth to a flat one by using different techniques.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0204

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	Map Projections i. General Principles ii. Classifications iii. Identifications iv. Transformation v. Choice of Projections	2	1	6*(3)
II.	Construction, Properties, limitations and uses of the Cylindrical Projections i. Cylindrical ii. Simple Cylindrical iii. Cylindrical Equal area iv. Mercator and Universal Transverse Mercator (UTM)	6	3	16 *(8)
III.	Construction Properties, Properties, limitations and uses of the Conical Projections. i. Conical: One Standard ii. Two Standard iii. Bonne's iv. Polyconic	5	2	16 *(8)
IV.	Constructions, Properties, limitations and uses of the Zenithal and Conventional projections: I. Zenithal: i. Gnomonic ii. Stereographic iii. Orthographic iv. Equidistant v. Equal area (Polar cases only) II. Conventional: i. Sinusoidal ii. Mollweide's (Normal cases only)	7	4	22*(11)
	Total Hours	20	10	60*(30)

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit hour. Therefore, in this course paper, the laboratory work and preparation of practical record file for additional 30 hours *over and above* prescribed 60hours limit will be completed during either on Friday/Saturday of a week (@ 1hour/day for 30 days).

Text Book(s):

Singh, R.L and Rana, P.B. 2002. *Elements of Practical Geography*. Kalayani Publishers, New Delhi.

Suggested Readings:

Khullar, D.R. 2000. *Essentials of Practical Geography*. New Academic Publishing Company, Jalandhar.

Singh, Gopal . 2012. *Map Work and Practical Geography*. Reprinted. Vikas Publishing House, Pvt Ltd. Noida, UP.

Menno-JanKraak and Ferjan Ormeling.2005. *Cartography- Visulaization of Geospatial Data* (2nd Edition) Pearson Publication.

COURSE: COMPREHENSIVE GEOGRAPHY OF HIMACHAL PRADESH (0512)

Course Code	BA/B.SC GEOG 0512		
Credits-4	L	T	P
	44	16	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce the students to the physical and cultural aspects of Himachal Pradesh. By the end of the course, the students will have a broad understanding about the physical and cultural milieu of the state. This paper shall also prove very helpful to the students aspiring to get into state civil services.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	Administrative History and Physiography of Himachal Pradesh i. Changes in Administrative Set-up of Himachal Pradesh (1872-2001) ii. Regional Divisions of Himachal Pradesh iii. Physical Divisions of Himachal Pradesh iv. Important Glaciers, Passes and Peaks: Basic Information	11	4	0
II.	Drainage System and Climatic Features of Himachal Pradesh i. Indus and Ganges River Systems: Their Major Rivers and Tributaries ii. Natural and Artificial Wetlands iii. Factors Influencing Climate of Himachal Pradesh iv. Annual Temperature and Rainfall Pattern v. Climatic Zones of Himachal Pradesh	11	4	0
III.	Soils, Vegetation and Wildlife of Himachal Pradesh i. Types of Soils ii. Spatial Distribution of Soils in Himachal Pradesh iii. Types of Vegetation iv. Spatial Distribution and Altitudinal Variation in Vegetation	11	4	0

	v. National Parks and Sanctuaries-Elementary Information			
IV.	People and Economy of Himachal Pradesh	11	4	0
	i. Population Growth, Distribution, Density, Sex Ratio, Literacy and Urbanisation			
	ii. Cultural and Economic Life of Tribal Communities-Kinnauras and Gaddis			
	iii. Brief Introduction of Horticultural and Hydro Power Development in Himachal Pradesh			
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Joshi, K.L.1984. *Geography of Himachal Pradesh*. National Book Trust of India, New Delhi.

Jereat, Manoj. 2006. *Geography of Himachal Pradesh*. Indus Publishing Company, New Delhi.

Suggested Readings:

Singh, R.L. 1992. *India, A Regional Geography*. National Geographical Society of India, Varanasi.

Kapadia, Harish. 1999. *Across Peaks and Passes in Himachal Pradesh*. Indus Publishing Company, New Delhi.

COURSE: FIELD SURVEY (PHYSICAL/ SOCIO-ECONOMIC & PREPARATION OF PROJECT REPORT (0613))

Course Code	BA/B.SC GEOG 0613		
Credits-4	L	T	P/FW
	10	5	90(45)
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: This course aims at making the students understand the various aspects of physical, social and economic surveys and elementary research methods in Geography. At the end of the course, students will be able to relate geographic concepts to field environments.

Continuous Comprehensive Assessment (CCA) Pattern:

Maximum Marks Allotted: 50

Minor Test* (Marks)		Class Test/ Tutorials/Assignments (Marks)	Quiz/Seminars (Marks)	Attendance (Marks)	Total Marks
Test -I	15	10	5	5	
Test - II	15				
Total	30	10	5	5	

* The pattern of examination for conducting the minor test will be same as prescribed for the end semester examination.

End Semester Examination System:

Maximum Marks Allotted: 50

Components	Maximum Marks Allotted	Minimum Pass Marks	Time Allotted
Theory & Practical	50	23	4.00 Hrs
Total	50	23	4.00 Hrs

Section	No of Question s	Syllabus Coverage	Nature of Answers	Questions and	Questions to be Attempted	Maximum Marks

A	10	Complete	Objective Type	10(0.25 mark each)	2.5
B	5	Complete	Short answer type (25 words)	5(0.5 marks each)	2.5
C	10	Complete	Medium answer type (50 words)	5(1 marks each)	5
D	3	Complete	Long answer type (1000 words)	1(5 marks each)	5
Total					15

Marks Allocation Scheme (Practical Paper)

Particulars	Maximum Marks
Project Report*	20
Viva-Voce	15
Total	35

Note: Use of non-programmable calculators and map stencils are allowed in the examination hall.

* The project report may be evaluated on the parameters of quality of database, tools and techniques used cartographic presentation and interpretation.

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P/FW
I.	INTRODUCTION TO FIELDWORK IN GEOGRAPHY i. Definition ii. Need and Objectives iii. Methods and Techniques iv. Stages v. Equipments vi. Major Problems or Limitations of field work in Geography	8	1	0
II.	Physical or Socio- Economic Field Survey of the Selected Localities	0	3	72*(36)
III.	Preparation of Project Report	2	1	18*(9)
	Total Hours	10	5	90(45)

L-Lecture, T-Tutorial, P-Practical and Practices, FW-Field Work

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours field /practical work has been treated equal to 1 credit hour. Therefore, in this course paper, the field work and preparation of project report for additional 45 hours *over and above* prescribed 60hours limit will be carried during Friday and Saturday (@ 6hours/day for 15 days).

NOTE: The tools (interview schedule) for conducting the survey will be designed by the Course Teacher. It will be the freedom of the Course Teacher to conduct any of the surveys subject to the availability of required facilities at the department.

Text Book(s):

Lunsbury J.F. and Aldrich, F.T. 1979. *Introduction to Geographic Field Methods and Techniques*. Charles E. Merrill Publishing Company, Columbus.
 Singh L.R. and R.N. Singh.1975. *Map Work and Practical Geography*. Central Book Depot, Allahabad.

Suggested Readings:

Association of American Geographers. 1965. *Field Training in Geography*. Technical Paper No.1.

COURSE: RESOURCE GEOGRAPHY (0614)

Course Code	BA/B.SC GEOG 0614		
Credits-4	L	T	P
	44	16	0
Course Type	Core: Major & Minor		
Lectures to be Delivered	60		

Course Objective: This paper aims to introduce the students to various types of resources that are often used by human beings for betterment of their life.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	INTRODUCTION i. Definition, Nature and Content of Resource Geography ii. Classification of Resources with Brief Introduction to Each Type iii. Significance of Resource Geography	11	4	0
II.	POPULATION AND RESOURCE RELATIONSHIPS i. Population and Resource Base: Optimum population, Over Population and Under Population ii. Intensity of Utilisation of Resources and Regional Disparities iii. Human Resource Regions of The World (Detailed Study of Two: One Each From High Developed and Less Developed World)	11	4	0
III.	SELECTED BIOTIC RESOURCES i. Forest: Types, Pattern of Utilization, Deforestation- Causes and Effects. ii. Water Resources: Spatial Distribution of Surface Water and Their Problems iii. Soils: Definition, Major Soil Groups, Degradation and Conservation of Soil	11	4	0
IV.	SELECTED ABIOTIC RESOURCES i. Coal, Petroleum and Iron-ore : Production, Distribution and Trade	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Roy, Prithvish. 2011. *Economic Geography: A study of Resources*. New Central Book Agency, Kolkata.

Hartshorne, T. A. and Alexander, J.W. 1988. *Economic Geography*. (3rd ed). Prentice Hall of India, New Delhi

Suggested Readings:

Gautam, Alka. 2013. *Geography of Resource: Exploration, Conservation and Mangement*. Rastogi Publications, Meerut.

Thakur, B. 2008. *Perspective in Resource Management in Developing Countries: Population, Resources and Development*. Vol. 2. Concept Publishing Company, New Delhi.

Chandna, R.C. 1986. *Geography of Population*. Kalyani Publishers, Ludhiana, Punjab

ADDITIONAL ELECTIVE COURSES

COURSE: POPULATION GEOGRAPHY (5615)

Course Code	BA/B.SC GEOG 5615		
Credits-4	L	T	P
	44	16	0
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce students to some of the basic concepts of population such as its characteristics, distribution and dynamic aspects.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time Hours		
		L	T	P
I.	CONCEPTUAL FRAMEWORK 1. Meaning of Population Geography, Population Geography and Other Social Sciences 2. Basic Sources of Data: Census and Surveys 3. Factors Affecting Population Distribution and Density	11	4	0
II.	RACES, POPULATION CHANGE AND MIGRATION 1. Races: Concept, Race versus Culture, Classification of Races by Griffith Taylor 2. Determinants of Fertility and Mortality 3. Migration: Concept, Migration Types, Determinants of Migration	11	4	0
III.	POPULATION COMPOSITION AND LITERACY 1. Sex Ratio and its Determinants, Age Composition and its Determinants 2. Concept and Determinants of Literacy	11	4	0
IV.	DEMOGRAPHIC SITUATION IN SELECTED COUNTRIES 1. A Brief Account of Problems, Prospects and Population Policies of India, China and Russia	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Chandna, R.C. 1986. *Geography of Population*. Kalyani Publishers, Ludhiana, Punjab

Suggested Readings:

Bhinde, Asha A and Kanitkar, Tara. 2010. *Principles of Population Studies*. Reprinted, Himalaya Publishing House, Mumbai.

Sharma, Rajendra, K. 2004. *Demography and Population Problems*. Atlantic Publishers and Distributors, New Delhi

COURSE: ECONOMIC GEOGRAPHY (5616)

Course Code	BA/B.SC GEOG 5616		
Credits-4	L	T	P
	44	16	0
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The purpose of this course is to introduce students to some of the basic concepts of Economic Geography. It also aims at increasing the understanding of students about selected economic activities.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	INTRODUCTION i. Meaning and Methods of Economic Geography ii. Classifying Economic Activities iii. Relationship Between Economic Activities and Environment	11	4	0
II.	PRIMARY ACTIVITIES i. Commercial Dairy Farming ii. Petroleum in Gulf Countries iii. Rubber Plantation in South East Asia	11	4	0
III.	SECONDARY ACTIVITIES I. Major Industries a) Iron and Steel b) Cotton Textile II. Major Industrial Regions a. Eastern North American b. Western Europe	11	4	0
IV.	TERTIARY & QUATERNARY ACTIVITIES i. Major Oceanic Routes- Atlantic, Pacific and Indian ii. International Trade: Concept, Volume and Direction	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Hartshorne, T. A. and Alexander, J.W. 1988. *Economic Geography*. (3rd ed). Prentice Hall of India, New Delhi

Suggested Readings:

Alexander J.W. and Gibson, L.J. 1979. *Economic Geography*. (2nd ed), Prentice Hall of India, New Delhi

Goh Cheng Leong and Morgan G.C. 1982. *Human & Economic Geography*. Oxford University Press, London and Greater Noida, India.

COURSE: REGIONAL GEOGRAPHY OF INDIA (5617)

Course Code	BA/B.SC GEOG 5617		
Credits-4	L	T	P
	44	16	0
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The purpose of this paper is to introduce the students to the basic concept of regionalization. It also exposes the student to the detail geography of some selected regions.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	1. Regionalisation of India: Bases and levels	11	4	0
II.	Plains of Rajasthan I. Physical Features II. Cultural Features	11	4	0
III.	Chhota Nagpur Plateau I. Physical Features II. Cultural Features	11	4	0
IV.	Kashmir Region I. Physical Features II. Cultural Features	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

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

COURSE: SOCIAL GEOGRAPHY (5618)

Course Code	BA/B.SC GEOG 5618		
Credits-4	L	T	P
	44	16	0
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The aim of this paper is to make the students understand the structure of Indian society and the evolution of socio- cultural regions of India.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	INTRODUCTION TO SOCIAL GEOGRAPHY i. Nature and Development of Social Geography ii. Scope and Significance of Social Geography iii. Social Geography in the Realm of Social Sciences	11	4	0
II.	SPATIAL ASPECTS OF SOCIETY i. Space and Society ii. Understanding Society and its Structure And Processes iii. Geographical Bases of Social Formations	11	4	0
III.	SOCIAL GEOGRAPHY IN INDIA i. Social Differentiation and Region Formation ii. Evolution of Socio-Cultural Regions in India iii. Bases of Social Region Formation with Reference to Ethnicity, Religion and Languages	11	4	0
IV.	SPATIAL DISTRIBUTION OF SOCIAL GROUPS i. Tribes ii. Scheduled Castes iii. Religions iv. Languages	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Ahmad, Aijazuddin. 1999. *Social Geography*. Rawat Publications, Jaipur and New Delhi.

Suggested Readings:

Jones, E. 1975. *Readings in Social Geography*. Oxford University Press, London.

Jones, E. and J. Eyles. 1977. *An Introduction to Social Geography*. Oxford University Press, London.

Ghurye, G.S. 2011. Caste and Race in India. *American Journal of Sociology*. Vol. 116.

COURSE: ENVIRONMENTAL GEOGRAPHY (5619)

Course Code	BA/B.SC GEOG 5619		
Credits-4	L	T	P
	44	16	0
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The aim underlying the introduction of this paper is to acquaint the students as to what constitutes the environment, different approaches of its study, brief account about environmental degradation and pollution and selected environmental issues.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	INTRODUCTION i. Definition and Scope of Environmental Geography ii. Meaning and Components of Environment iii. Approaches to Study Environmental Geography- Environmental Deterministic and Possibilistic	11	4	0
II.	ECOLOGY, ECO-SYSTEMS AND SOIL SYSTEM i. Definition and Scope of Ecology ii. Meaning, Types, Components and Functioning of Eco-Systems iii. Meaning and Components of Soil System	11	4	0
III.	ENVIRONMENTAL DEGRADATION AND POLLUTION i. Meaning and Causes of Environmental Degradation ii. Meaning, Sources and Causes of Air and Water Pollution	11	4	0
IV.	SOME ENVIRONMENTAL ISSUES i. Depletion of Ozone Layer, Ecological Significance of Ozone, Protection of Ozone Layer ii. Acid Rain- Causes and Effects iii. A Detailed Account of the Concept of Global Warming	11	4	0
	Total Hours	44	16	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Singh, Savindra. 2012. *Environmental Geography*. Reprinted. Prayag Pustak Bhawan, Allahabad.

Suggested Readings:

Gautam, Alka. 2010. *Environmental Geography*. Sharda Pustak Bhawan, Allahabad, UP.

Shitole, G.Y. 2012. *Environmental Degradation Issues and Challenges*. Serials Publications, New Delhi

COURSE: FUNDAMENTALS OF REMOTE SENSING (5620)

Course Code	BA/B.SC GEOG 5620		
Credits-4	L	T	P
	31	14	30*(15)
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The purpose of this paper is to teach the students the basic principles of remote sensing, its evolution and different types of remote sensing.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0204

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P

I.	HISTORIC BACKGROUND i. Meaning ii. Historical Perspective iii. Indian Remote Sensing Programme	6	3	0
II.	FUNDAMENTALS OF REMOTE SENSING i. Basic Principles of Remote Sensing ii. Electromagnetic Energy	8	3	6*(3)
III.	ENERGY SOURCE AND ATMOSPHERIC INTERACTION i. Energy Source ii. Energy and Radiation Principles iii. Energy Interactions in the Atmosphere and With Earth Surface Features iv. Spectral Reflectance Curve	8	3	10*(5)
IV.	AERIAL PHOTOGRAPHIC AND SATELLITE IMAGE INTERPRETATION i. Elements of Aerial Photographic Interpretation- Shape, Size, Pattern, Tone, Texture, Shadow and Association ii. Satellite Image Interpretation of Nearby Locality (LISS-III Image freely downloadable from ISRO's Geoportal Bhuvan www.bhuvan.nrsc.gov.in)	9	5	14*(7)
	Total Hours	31	14	30*(15)

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit. Therefore, in this course paper, the laboratory/ field work and preparation of practical record for additional 15 hours *over and above* prescribed 60hours limit will be completed during either on Friday/Saturday of a week (@ 1hour/day for 15 days).

Text Book(s):

Guha, P.K. 2008. *Remote Sensing for the Beginner*. East West Press Pvt. Ltd. New Delhi.

Suggested Readings:

Panda, B.C. 2005. *Remote Sensing – Principles and Applications*. Viva Books Pvt. Ltd., New Delhi

Compbell, J. 1989. *Introduction to Remote Sensing*. Guilford, New York.

COURSE: FUNDAMENTALS OF GIS (5621)

Course Code	BA/B.SC GEOG 5621		
Credits-4	L	T	P
	31	14	30*(15)
Course Type	Elective (Additional)		
Lectures to be Delivered	60		

Course Objective: The purpose underlying the introduction of this paper is to teach the students meaning of GIS, its components and role of GIS in Geography.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0204

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	INTRODUCTION i. History of Geographic Information System(GIS) ii. Meaning and Scope of GIS iii. Components of GIS	5	4	4*(2)
II.	DATA MODELS Raster and Vector Data: Meaning, Differences, Advantages and Disadvantages	5	4	4*(2)
III.	SPATIAL AND ATTRIBUTE DATA BASE – STORAGE TYPES Spatial Data Base i. Spatial Data Models: Raster and Vector ii. Methods of Raster Data Encoding- Run Length Code iii. Method of Vector Data Representation - Topological Model Attribute Data Base i. Hierarchical ii. Network iii. Relational	14	3	6*(3)
IV.	i. Capabilities of GIS ii. Role of GIS in Geography iii. Demonstration of any Open Source GIS Software like ILWIS or Map Window GIS	7	3	16*(8)
	Total Hours	31	14	30*(15)

L-Lecture, T-Tutorial and P-Practical and Practices

* As per the weightage assigned to the P (Practical and Practices) category in the CBCS regulations 2 hours practical work has been treated equal to 1 credit. Therefore, in this course paper, the laboratory/ field work and preparation of practical record for additional 15 hours *over and above* prescribed 60hours limit will be completed during either on Friday/Saturday of a week (@ 1hour/day for 15 days).

Text Book(s):

Chakraborty, Debashis and Sahoo, Rabi N. 2007. *Fundamentals of Geographic Information System*. Viva Books, New Delhi.

Gautam, N.C. 1993. *Fundamentals of Geographic Information System*. Pink Publishing house, Mathura.

Suggested Readings:

Kang-tsung Chang. 2002. *Geographic Information System*. Tata-McGraw Hill, New Delhi.

COURSE: EVOLUTION OF GEOGRAPHICAL THOUGHT (5622)

Course Code	BA/B.SC GEOG 5622		
Credits-4	L	T	P
	46	14	0
Course Type	Elective (Additional)		

Lectures to be Delivered	60
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Course Objective: The purpose of this paper is to teach the students the philosophy of the subject of Geography, how it has evolved through time and the contributions of various scholars in its evolution.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	PREHISTORY OF GEOGRAPHICAL IDEAS Brief contributions by: i. Greeks ii. Romans iii. Arabs iv. Ancient Indians v. Impact of Exploration and Discoveries	15	4	0
II.	MODERN SCHOOLS OF GEOGRAPHICAL THOUGHTS i. Americans : W.M. Davis, Richard Hortshorne, and Ellen Churchill Semple ii. British: Halford J. Mackinder and Dudley Stamp iii. German: Alexander Von Humboldt, Carl Ritter and Fredrick Ratzel iv. France: Vidal de la Blache and Jean Brunes	15	4	0
III.	DUALISM AND DICHOTOMIES IN GEOGRAPHY i. Physical Versus Human ii. Systematic Versus Regional	8	3	0
IV.	TRENDS IN GEOGRAPHY i. Quantitative Revolution ii. Behaviouralism and Feminism	8	3	0
	Total Hours	46	14	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Husain, M. 2009. *Evolution of Geographical Thought*. Rawat Publication, Jaipur

Suggested Readings:

Peet, R. 1998. *Modern Geographical Thought*. Blackwell Publisher, Oxford

Hartshorne, Richard. 2012. *The Nature of Geography: Critical Survey of Current Thought in the Light of the Past (Reprinted)*. The Association Lancaster, UK.

**SYLLABI OF COMPULSORY AND GENERAL INTEREST / HOBBY COURSES
OFFERED BY GEOGRAPHY DEPARTMENT**

COMPULSORY COURSE: GEOGRAPHY OF HIMACHAL PRADESH (0512)

Course Code	BA/B.SC GEOG 0512		
Credits-3	L	T	P
	37	8	0
Course Type	Compulsory Course only for Non-Major		
Lectures to be Delivered	45		

Course Objective: The purpose of this course is to introduce the physical and human aspects of Geography of Himachal Pradesh to the students opting Geography as a compulsory course. By the end of the course, student will have a general understanding about the history, physical division, river system, climate, soils, vegetation and demographic characteristics of the state. It will also prove fruitful to the students preparing for state civil services.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	Administrative History and Physiography i. Changes in Administrative Set-up of Himachal Pradesh (1872-2001) ii. Regional Divisions of Himachal Pradesh iii. Physical Divisions of Himachal Pradesh	9	2	0
II.	Drainage System and Climatic Features i. Indus and Ganges River Systems: Their Major Rivers and Tributaries ii. Natural and Artificial Wetlands iii. Factors Influencing Climate of Himachal Pradesh	9	2	0
III.	Soils and Vegetation i. Types of Soils ii. Spatial Distribution of Soils in Himachal Pradesh iii. Types of Vegetation iv. Spatial Distribution and Altitudinal Variation in Vegetation	9	2	0
IV.	People and Economy of Himachal Pradesh	10	2	0

	i. Population Growth, Distribution, Density, Sex Ratio ii. Literacy and Urbanisation iii. Brief Introduction of Horticultural and Hydro Power Development in Himachal Pradesh			
	Total Hours	37	8	0

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s):

Joshi, K.L.1984. *Geography of Himachal Pradesh*. National Book Trust of India, New Delhi.

Jereat, Manoj. 2006. *Geography of Himachal Pradesh*. Indus Publishing Company, New Delhi.

Suggested Readings:

Singh, R.L. 1992. *India, A Regional Geography*. National Geographical Society of India, Varanasi.

GENERAL COURSE: GEOGRAPHY OF INDIA (FOR COMPETITIVE EXAMINATIONS) (4489)

Course Code	BA/B.SC GEOG 4489		
Credits-3	L	T	P
	37	08	0
Course Type	General Interest		
Lectures to be Delivered	45		

Course Objective: The purpose of this course is to introduce the selected physical and human aspects of Indian Geography to the students opting Geography of India for civil services and other competitive examinations. By the end of the course student will have a clearer view of the location, physical division, river system, climate, soils, spatial distribution of population and agricultural resources in India.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0203

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	A GEOGRAPHIC BACKGROUND Introduction i. Geographical Location ii. Unity in Diversity Physiographic Divisions i. Northern Mountains ii. Great Plains iii. Peninsular Plateau iv. Coastal Plains and Islands	9	2	0
II.	RIVER SYSTEM AND CLIMATE Drainage System i. Major Drainage Systems- Comparison between Himalayan and Peninsular River System Climate i. Factors Affecting Climate ii. Summer and Winter Monsoon	9	2	0

	iii. Western Disturbances iv. Spatial Pattern of Precipitation			
III.	HUMAN RESOURCE I. Growth of Population II. Distribution and Density of Population III. Literacy Differentials IV. Sex Composition	9	2	0
IV.	Agricultural Scenario I. Agriculture a. Green Revolution and Its Impact II. Food Crops a. Wheat b. Rice III. Cash Crops a. Cotton b. Tea	10	2	0
	Total Hours	37	8	0

L-Lecture, T-Tutorial and P-Practical and Practices

Gautam, Alka. 2004. *Geography of India*. Rastogi Publication-Meerut, UP.

Khullar, D.R. 2009. *India: A Comprehensive Geography*. Kalyani Publisher, New Delhi.

Suggested Readings:

Rao, B.P. 2008. *Bharat Ki Bhogolik Samiksha*. Vasundhra Prakashan, Gorkhpur

Sharma, T.C. 2007. *Economic and Commercial Geography of India*. Vikas Publishing House, New Delhi.

**GENERAL INTEREST/HOBBY COURSE: THE WORLD: MAP APPRECIATION
(0100)**

Course Code	BA/B.SC GEOG 0100		
Credits-2	L	T	P
	12	4	30(15)
Course Type	General Interest/Hobby		
Lectures to be Delivered	30		

Course Objective: The purpose of this course is to introduce the basic skills of map reading to the students opting this general/hobby course. By the end of the course student will have a general understanding of the locations, information relating to different physical and political features of various countries of the world.

Continuous Comprehensive Assessment (CCA) and End Semester Examination System: Same as Prescribed in Course Paper 0204

Course Content and Credit Scheme

Unit	Topic	Allotted Time (Hours)		
		L	T	P
I.	BASICS OF MAP READING i. Map as a Tool of Information ii. Bases of Map Classification	2	1	6(3)
II.	DIRECTIONS	2	1	6(3)

	<ul style="list-style-type: none"> i. Cardinal Directions ii. Primary Inter-Cardinal iii. Secondary Inter-Cardinal 			
III.	LOCATIONAL SYSTEM, DATES AND TIME <ul style="list-style-type: none"> i. Latitude, Longitude and Graticule ii. Time Zones and International Date Line 	3	1	6(3)
IV.	GEOGRAPHIC LOCATIONS <ul style="list-style-type: none"> i. Continents and Oceans ii. Nation-State Capitals, Metropolitan Cities of the World iii. Mountains and Rivers 	4	1	12(6)
	Total Hours	12	4	30(15)

L-Lecture, T-Tutorial and P-Practical and Practices

Text Book(s)

Phillip C. Muehrcke. 1978. *Map Use: Reading Analysis and Interpretation*. Madison, WI, JP Publications.

John Campbell. 1991. *Map Use and Analysis*. Wm. C. Brown Publishers, Dubuque, Indiana USA.

Suggested Readings:

Encyclopaedia of the World

Digital Source:

Google Maps and Google Earth