



KARNATAK UNIVERSITY

DHARWAD

CBSC Syllabus for under Graduate Programme in GEOGRAPHY(OPT)

B.A :DISCIPLINE SPECIFIC COURSE (DSC)

(WITH EFFECT FROM 2020-21)

Particulars of the Semester wise Theory and Practical Papers and paper codes

Semester	Paper Code	Title of the Paper	Course
I	GY T A	Physical Geography	DSC
	GY Pr. A	Scale and Maps	DSC
II	GY T B	Human Geography	DSC
	GY Pr. B	General Cartography & IMD Weather Map	DSC
III	GY T C	Regional Geography of Karnataka	DSC
	GY Pr. C	Interpretation of SOI Topographical Maps	DSC
IV	GY T D	Environmental Geography	DSC
	GY Pr. D	Map Projections	DSC
V	GY T E-I	Regional Geography of India	DSE
	GY T E-II	Geography of Settlements	DSE
	GY Pr. E	Basic Statistics	DSE
	GY E.SEC.-III	Regional Planning & Development	SEC-I
	GY T-GE-IV	Elements of Physical Geography	GE-I
VI	GY T F-I	Economic Geography of the World	DSE
	GY T F-II	Population Geography	DSE
	GY Pr. F	Field techniques and Survey based Project report	DSE
	GY F SEC.-III T/Pr.	Remote Sensing and GIS based Project report	SEC-II
	GY-GE-IV	Physical Geography of India	GE-II

Note: All the DSC Courses are compulsory. Each DSE shall have at least two papers and

students shall choose any one paper from each DSE and Practical is compulsory

SEC Practical is compulsory of these two semesters

The practical batches is to be in accordance with University Norms

**KARNATAK UNIVERSITY****DHARWAD****CBSC Syllabus for under Graduate Programme in GEOGRAPHY(OPT)****B.A :DISCIPLINE SPECIFIC COURSE (DSC)****(WITH EFFECT FROM 2020-21)**

Semester	Theory/ Practical	Subject code	Instruction hour per week	Total syllabus Hrs/ Sem	Duration of Exam.	Internal Assessment Marks	Sem. End Exam. Marks	Total Marks	Total Credits
I	Theory	DSC (GY T:A)	04hrs	60	03hrs	20	80	100	04
	Practical	DSC (GY Pr: A)	04hrs	52	03hrs	10	40	50	02
II	Theory	DSC (GY T:B)	04hrs	60	03hrs	20	80	100	04
	Practical	DSC (GY Pr: B)	04hrs	52	03hrs	10	40	50	02
III	Theory	DSC (GY T:C)	04hrs	60	03hrs	20	80	100	04
	Practical	DSC (GY Pr: C)	04hrs	52	03hrs	10	40	50	02
IV	Theory	DSC (GY T:D)	04hrs	60	03hrs	20	80	100	04
	Practical	DSC (GY Pr: D)	04hrs	52	03hrs	10	40	50	02
V	*Theory	DSE	04hrs	60	03hrs	20	80	100	04
	P-I/P-II	(GY T:E-I) (GY T:E-II)	04hrs	60	03hrs	20	80	100	04
	Practical	DSE (GY Pr-E)	04hrs	52	03hrs	10	40	50	02
VI	*Theory	DSF	04hrs	60	03hrs	20	80	100	04
	P-I/P-II	(GY T:F-I) (GY T:F-II)	04hrs	60	03hrs	20	80	100	04
	Practical	DSE (GY Pr-F)	04hrs	52	03hrs	10	40	50	02

* Candidate shall choose either paper-I or Paper-II from DSE theory (V Sem) and DSE theory (Sem VI) but not both from DSE theory and DSE theory.

SKILL ENHANCEMENT COURSE (SEC) for Geography as Discipline Specific Course (DSC)

Semester	Theory/ Practical	Subject code	Instructi on hour per week	Total syllabus Hrs/ Sem	Duration of Exam.	Internal Assessment Marks	Sem. End Exam. Marks	Total Marks	Total Credits
V	Theory	SEC: GY.E-III	02hrs	30	1.5hrs	10	40	50	02
V	Theory	SEC: GY.E-IV	02hrs	30	1.5hrs	10	40	50	02
VI	Practical / Theory	SEC (GY Pr. F:II)	02hrs	30	1.5hrs	10	40	50	02
VI	Practical / Theory	SEC (GY Pr. F:III)	02hrs	30	1.5hrs	10	40	50	02
Total			8hrs	120		40	160	200	08

B.A – Semester I
Discipline Specific Core -(DSC) Under CBCS

GY-T A: PHYSICAL GEOGRAPHY

(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory : 04. Theory class 4hrs/week Total Theory: 60 Lectures
 Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
 Duration of Examination 3 hrs

II. Practical: 02. Practical classes: 4hrs/week. Total Practical: 52 hrs. Max.50 Marks

Total credits: 06: 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Introduction to Physical Geography	Meaning, Field and Scope	02
II	Origin of the earth	Nebular and Tidal Theory	02
III	Lithosphere	Interior of the earth.	25
		Continental drift theory of Wegener and Plate tectonic theory.	
		Formations and types of Volcanoes, Earthquakes and Rocks.	
		Geomorphic Agents and Process of Denudations: River, Glacier Underground water and Winds.	
IV	Atmosphere	Composition and Structure.	21
		Insolation: Factors affecting the distribution of atmospheric temperature. Vertical and Horizontal distribution of atmospheric temperature	
		Atmospheric Pressure: Factors affecting the atmospheric Pressure. Vertical and horizontal distribution of pressure and World Pressure belts.	
		Wind System: Planetary, Seasonal, Local and Variable Winds (cyclones and anticyclones).	
		Precipitation: Humidity and Types of Rainfall.	
V	Hydrosphere	The Relief of the Oceans: Continental Shelf, Continental Slope, Deep – xzA Sea Plain and Troughs.	10
		Tides and ocean currents: Indian, Pacific and Atlantic	
		Salinity and temperature of Oceans: Atlantic, Pacific and Indian.	

References:

1. Conserva H.T (2004): Illustrated Dictionary of Physical Geography, Author House,
2. Gabler R.E , Peterson J.F and Trapasso L.M (2007): Essentials of Physical Geography (8th edition) Thompson Books / Cole USA.
3. Garrett N (2000) Advanced Geography, Oxford University Press.
4. Goudie A (1984): The Nature of Environment: An advanced Physical Geography, Basil Husain
5. Monkhouse F.J(2009): Principles of Physical Geography, Platinim Publishers,
6. Strahler A N and Strahler A H (2008): Physical Geography, John Wiley & Sons New
7. I. aÄÄ@è¥Äà : "sËwPÀ "sÀÆUÉÆÄ¼Ä±Ä, ÄÛç
8. qÁ. gÄAUÄ£ÄxÄ: ¥ÄæPÄËwPÄ "sÀÆUÉÆÄ¼Ä±Ä, ÄÛçzÄ aÄÄÆ@ vÄvÄéUÄ¼ÄÄ
9. qÁ. JA. ©. UËqÄgÄ: "sËwPÀ "sÀÆUÉÆÄ¼Ä±Ä, ÄÛç
10. ¥ÉÆæ. r. J. PÉÆ Äè¥ÄÄgÉ & ¥ÉÆæ. J, i. J, i. £ÄAdtÜ£ÄªÄgÄ: aÄAiÄÄÄUÄÄt±Ä, ÄÛç aÄÄvÄÄÜ aÄÄ°Ä, ÄUÄgÄ «eÄÖ£Ä

B.A – Semester I
Discipline Specific Core -(DSC) Under CBCS
GY-Pr. A: SCALES AND MAPS
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Practical-I

Credits: 02 : Practical class 4hrs/week Total Practical: 52 hrs
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
(Practical Sem. End Exam-30, Journal-05, Viva-Voce-05 marks)
Duration of Examination 3hrs

Unit	Title	Sub-unit	Hrs
I	Scales and Maps	Scales and Maps as a tools in Geography	04
II	Scales	Introduction: Definition, Types, Methods of Representation and uses of scales.	28
		Conversion of scales: Representative Fraction (RF) to Verbal scale and Verbal scale to Representative Fraction (RF).	
		Construction of scales: Graphical (Plain), Comparative, Pace, Time and Diagonal.	
III	Maps	Introduction: Definition, Types and Importance of Maps.	20
		Enlargement and Reduction of Maps by Graphical method (02 exercise each).	

Note: * Each practical batch consists of 15 students with one in-charge teacher. In case the student number is less than 10 is also considered as one batch with one teacher in-charge.

* Certification of journal by the in-charge teacher is must and submits the same in the Sem. End practical exam, failing that such candidate will lose journal marks i.e. 05 marks

References:

- Gopal Singh: Map work and Practical Geography, 3rd ed. Vikas Publishing Houde, New Delhi.
- Gupta K and Tyagi V.C : Working with Maps, Survey of India, Dept. of Sci. and Technology, Govt. of India, Dehra Dun 1992.
- John and Keats: Cartographic design and production, 2nd ed. 1989, John wiley, New York.
- Mishra R.P: Fundamentals of Cartography, 1969, Prasaranga, University of Mysore.
- Monkhouse F.J and : Maps and Diagrams, Wilkinson H.R Mathuen and Co. Ltd. London, 1952
- Phyllis Dink: Map work, 10th ed. Atma Ram and Sons, Delhi 1969.
- Raisz E: General Geography, 1948, Tata, Mc-Grow-Hill New York.
- Ranganath : An introduction to practical Geography, Vidyanidhi Publication, Gadag.
- Singh R.L: Elements of Practical Geography, Kalyani Publishers, New Delhi.
- qÁ. gÁAUÀÉÁxÀ: ¥ÁæAiÉÆÁVPÀ "sÀÆUEÆÁ¼Á±Á. ÀÛç.
- qÁ. J.ï.J.ï.ÉÁAdtÚÉÁÁgÁ & qÁ. JA. Jÿsï. PÁgÉtÚªÁgÁ: ¥ÁæAiÉÆÁVPÀ "sÀÆUEÆÁ¼Á±Á. ÀÛç.

B.A – Semester II
Discipline Specific Core -(DSC) Under CBCS
GY-T B: HUMAN GEOGRAPHY

(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory: 04. Theory class 4hrs/week Total Theory: 60 Lectures
 Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
 Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Marks

Total credits: 06 : 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Introduction to Human Geography	Introduction: Definition, Field and Scope of Human Geography. Branches of Human geography	08
II	Conceptual approaches of Man-Environmental Relationship	Environmental determinism, Possibilism and Neo-determinism	02
III	Social and Cultural Geography	Major races of the world: Classification and distribution of Caucasoid, Mangoloid, Negroid and Australoid. Culture and Religion of the World.	23
		Settlements: Types and Patterns of Rural settlements. Definition of urban places. The origin of towns and functional classification of towns.	
		Urbanization: Trends and Patterns of World Urbanizations	
IV	Tribes: Habitat and Economy	Major tribes of the world (Primitive people): Pygmies, Bushman, Eskimos, Semang and sakais.	19
		Major Indian Tribes: Todas, Bills, Gondas, Nagas and Santals.	
V	Population Geography	Growth and distribution of world population.	08
		Population composition: Sex-ratio and Literacy rate.	

References:

- Dickens and Pitts: Introduction to Human Geography, 1963.
- Harm D. Blij: Human and Economic Geography, Mac Millan, New York, 1992.
- Husain M: Human Geography, Rawat Publications, Jaipur, 2003.
- Nellson, Gabler & Vining Human: Human Geography, People, Culture and Land
- Peter Danials, MichaelBradshaw Denis Shaw, James Sidaway: Human Geography, Issues for the 21st Century, Pearson, 2003.
- Norris and Haring: Political Geography, Charles E. Merrill Publishing Company.
- Ranganath: Principals of Human Geography (Kan Var) Vidyandhi , Gadag, 2002.
- Rubenstein J.M: An Introduction to Human Geography, MacMillon Publishing
1. Introduction to Human Geography, 1963.
2. Harm D. Blij: Human and Economic Geography, Mac Millan, New York, 1992.
3. Husain M: Human Geography, Rawat Publications, Jaipur, 2003.
4. Nellson, Gabler & Vining Human: Human Geography, People, Culture and Land
5. Peter Danials, MichaelBradshaw Denis Shaw, James Sidaway: Human Geography, Issues for the 21st Century, Pearson, 2003.
6. Norris and Haring: Political Geography, Charles E. Merrill Publishing Company.
7. Ranganath: Principals of Human Geography (Kan Var) Vidyandhi , Gadag, 2002.
8. Rubenstein J.M: An Introduction to Human Geography, MacMillon Publishing
9. Introduction to Human Geography, 1963.
10. Harm D. Blij: Human and Economic Geography, Mac Millan, New York, 1992.
11. Husain M: Human Geography, Rawat Publications, Jaipur, 2003.
12. Nellson, Gabler & Vining Human: Human Geography, People, Culture and Land

B.A – Semester II
Discipline Specific Core -(DSC) Under CBCS
GY-Pr. B: GENERAL CARTOGRAPHY & IMD WEATHER MAP
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Practical-II

Credits: 02 : Practical class 4hrs/week Total Practical: 52 hrs
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
(Practical Sem. End Exam-30, Journal-05, Viva-Voce-05 marks)
Duration of Examination 3hrs

Unit	Title	Sub-unit	Hrs
I	Construction of Graphs	Single and double Line graph.	12
		Single and double Bar graph.	
		Climograph.	
		Hyther Graph.	
		Ergo Graph.	
II	Diagrams and Thematic Maps	Pie, Traffic-flow, Spheres and Wind-Rose	12
		Choropleth and Dot Maps	
III	Weather Instruments and IMD Weather Maps	Thermometer – Wet Bulb and Dry Thermometer.	12
		Barometer –Aneroid Barometer.	
		Rain gauge and Cup Anemometer	
		<i>Weather Signs and Symbols</i>	04
		Interpretation of Indian Daily Weather Report – 4 exercises (One exercise from each season).	12

References:

- Gopal Singh: Map work and Practical Geography, 3rd ed. Vikas Publishing Houde, New Delhi.
- Gupta K and Tyagi V.C : Working with Maps, Survey of India, Dept. of Sci. and Technology, Govt. of India, Dehra Dun 1992.
- Jacki Smith B.A (ed): Dictionary of Geography, Cosmo Publications, New Delhi 1983.
- John and Keats: Cartographic design and production, 2nd ed. 1989, John wiley.
- Mishra R.P: Fundamentals of Cartography, 1969, Prasaranga, University of Mysore.
- Monkhouse F.J and : Maps and Diagrams, Wilkinson H.R Mathuen and Co. Ltd. London,
- Phyllis Dink: Map work, 10th ed. Atma Ram and Sons, Delhi 1969.
- Raisz E: Genera;l Geography, 1948, Tata, Mc-Grow-Hill New York.
- Ranganath : An introduction to practical Geography, Vidyanidhi Publication, Gadag.
- Singh R.L: Elements of Practical Geography, Kalyani Publishers, New Delhi.
- qÁ. gÀAUÀÉÁxÀ: ¥ÁæAiÉÆãVPÀ "sÀÆUEÆã¼À±Á. ÀÛç.
- qÁ. J.ï.J.ï.ÉÀAdtÚÉÀÁgÀ & qÁ. JA. J¥sï. PÀgÉtÚªÁgÀ: ¥ÁæAiÉÆãVPÀ "sÀÆUEÆã¼À±Á. ÀÛç.

B.A – Semester III
Discipline Specific Core -(DSC) Under CBCS
GY-T C: REGIONAL GEOGRAPHY OF KARNATAKA
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory: 04. Theory class 4hrs/week Total Theory: 60 Lectures
Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Marks
Total credits: 06 : 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Physical Aspects	Location, Size, Extent	16
		Physiographic divisions.	
		Climate, Rivers, Soils and Vegetation.	
II	Agriculture and River Valley Projects	River Valley Projects: Krishna, Malaprabha, Ghataprabha, Tunga Bhadra and Cauvery Rivers.	22
		River Water Dispute: Cauvery, Krishna and Kalasa Banduri.	
		Irrigation: Sources and Types	
		Types of Agriculture.	
		Cultivation, Distribution and Production of major Crops: Food crops: Paddy Ragi, Jowar and Wheat. Commercial crops: Cotton, Sugar Cane, Tobacco, Chilli. Horticulture Crops : Coffee and Tea.	
III	Mineral Resources and Industries	Distribution and Production of Mineral Resources: Iron ore, Manganese Bauxite and Gold.	10
		Distribution and Production of major industries: Iron and Steel, Sugar, Cotton textile and Cement Industries.	
IV	Transportation	Patterns of Road and Railway, Ports and Harbours.	05
V	Population	Growth and distribution, Density, Sex-ratio and Literacy.	07
		Process of urbanization and trends.	

References:

1. Karnatak State Gazette, 2 Volume.
2. Mallappa: Geography of Karnataka
3. Misra R.P: Geography of Karnataka State
4. NBK Reddy & Murthy G.S: Regional Geography of Mysore State
5. Dr. Ranganath: Regional Geography of Karnataka, Mysore Book House, Mysore
6. ¥É/Ææ. r. J. PÉÆ- Áè¥ÄÄgÉ & ¥É/Ææ. J,ï.J,ï.£ÀAdtÚ£ÀªÄgÀ:À Regional Geography of Karnataka
7. S.S.Nanjannavar & M.N.Meeranaik: Geography of Karnataka
8. qÁ. JA.©.UËqÄgÀ: Regional Geography of Karnataka

B.A – Semester III
Discipline Specific Core -(DSC) Under CBCS
GY-Pr. C: INTERPRETATION OF SOI TOPOGRAPHICAL MAPS
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Practical-III

Credits: 02 : Practical class 4hrs/week

Total Practical: 52 hrs

Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks

(Practical Sem. End Exam-30, Journal-05, Viva-Voce-05 marks)

Duration of Examination 3hrs

Unit	Title	Sub-unit	Hrs
I	Representation of relief features	Methods of Representation of Relief Features	04
		Hill, Types of slopes-Convex, Concave, Undulating and Uniform slopes. Saddle, Plateau, Escarpment, Spur, Gorge, U & V Shaped valleys, Pars and Water Falls.	08
II	Marginal information of SOI Topographical Maps	Arrangement and marginal information of SOI Topographical Maps	04
		Conventional Signs and Symbols and Colours convention used in SOI Topographical Maps	08
III	Interpretation of Indian Topographical Maps	Relief Features	24
		Drainage Patterns	
		Vegetation Distribution	
		Settlement types and Distribution	
		Land-Use Patterns	
		Transport and Communication	
		Cross Section:	04

References:

- Gopal Singh: Map work and Practical Geography, 3rd ed. Vikas Publishing Houde, New Delhi.
- Gupta K and Tyagi V.C : Working with Maps, Survey of India, Dept. of Sci. and Technology, Govt. of India, Dehra Dun 1992.
- Jacki Smith B.A (ed): Dictionary of Geography, Cosmo Publications, New Delhi
- John and Keats: Cartographic design and production, 2nd ed. 1989, John wiley, NY
- Mishra R.P: Fundamentals of Cartography,1969,Prasaranga, University of Mysore.
- Monkhuse F.J and : Maps and Diagrams, Wilkinson H.RMathuen and Co. Ltd. London,
- Phyllis Dink: Map work, 10th ed. Atma Ram and Sons, Delhi 1969.
- Raisz E: Genera;l Geography, 1948, Tata, Mc-Grow-Hill New York.
- Ranganath : An introduction to practical Geography, Vidyanidhi Publication, Gadag.
- Singh R.L: Elements of Practical Geography, Kalyani Publishers, New Delhi.
- qÁ. gÁAUÀ£ÁxÁ: ¥ÁæAiÉÆÄVPÀ "sÁÆUEÆÄ¼Á±Á,ÀÛç.
- qÁ. J,ï.J,ï.£ÁAdtÚ£ÁàÀgÁ & qÁ. JA. J¥si. PÀgÉtÚªÀgÁ: ¥ÁæAiÉÆÄVPÀ "sÁÆUEÆÄ¼Á±Á,ÀÛç.

B.A Semester- IV
Discipline Specific Core -(DSC) Under CBCS
GY-T D: ENVIRONMENTAL GEOGRAPHY
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory : 04. Theory class 4hrs/week Total Theory: 60 Lectures
Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Marks

Total credits: 06: 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Introduction	Meaning and components of environment. Field and scope of environmental Geography	05
II	Ecosystem	Types, Structure and Functions - Productivity, Food-chain, Food-Web, Ecological Pyramid. Bio-Geo-Chemical cycle – Hydrological, Carbon, Nitrogen Oxygen and Energy flow in the eco- system.	20
III	Bio-Diversity	Types and Uses of Bio-Diversity, Threats to Bio-Diversity. Endangered Species of India. Conservation of Bio-Diversity.	13
IV	Global Warming and Environmental Pollution	Green House effects. Ozone layer depletion- Causes, Consequences and protection	05
		Causes, Effects and Measures to control the pollution : Air, Water Soil and Solid waste.	12
V	Conservation and Management of Environment	National and International: Policies, Rio Summit, Kyoto Declaration and Swatch Bharat Abhiyan	05

References:

1. Agarawal K.C: Environmental Biology, Nidhi Pub. Bikaner, 2001.
2. Chausasia B.P: Environmental Pollution, Consequences and Measures.
3. Mathur H.S: Environmental Resources, The Crises of Development.
4. Odum E.P: Fundamentals of Ecology, WBSaunders Co. London, 1971.
5. Saxena H.M: Environmental Geography, Rawat Pub. Jaipur, 1999.
6. Sharma P.D: Ecology and Environment: Rastogi Pub. New Delhi, 1999.
7. Strahler and Strahler: Geography and Mans Environment, John Wiley New York,
8. Heywood V.H. & Warson R.T: Global Bio-Diversity Assessment, CUP,1995.
9. Darsh M.C: Fundamentals of Ecology, Tata McGrow Hills New Delhi, 2002.
10. qÁ. J ĩ.n.£ÁAiÄÄPÀ: ¥Äj, ÄgÄ "sÄÆUÉÆÄ¼Ä±Ä, ÄÛç
11. qÁ. JA.©.UËqÄgÄ: ¥Äj, ÄgÄ "sÄÆUÉÆÄ¼Ä±Ä, ÄÛç
- 12 ¥ÉÆæ. r. J. PÉÆ Äè¥ÄÄgÉ & ¥ÉÆæ. J, ĩ. J, ĩ.£ÄAdtU£ÄªÄgÄ: Ä¥Äj, ÄgÄ "sÄÆUÉÆÄ¼Ä±Ä, ÄÛç

B.A – Semester IV
Discipline Specific Core -(DSC) Under CBCS
GY-Pr. D: MAP PROJECTIONS
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Practical-IV

Credits: 02 : Practical class 4hrs/week Total Practical: 52 hrs
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
(Practical Sem. End Exam-30, Journal-05, Viva-Voce-05 marks)
Duration of Examination 3hrs

Unit	Title	Sub-unit	Hrs
I	Introduction of Map projection	Meaning, Classification, importance, Properties and Uses of Map Projections.	04
II	Map Projections: Properties, Uses and Graphical Construction	Cylindrical Projections: Simple Cylindrical, Cylindrical – equal area Mercator’s Projection.	12
		Conical Projections : Conical Projection with one standard parallels Bonne’s Projection.	12
		Zenith Projections: Polar Zenith equal area, Gnomonic Stereographic and Orthographic	12
III	Conventional Projections	Sinusoidal Projection and Millweids Projection	12

References:

1. Salar Masood M: Map Projections, Rao and Raghavam Co. Mysore.
2. Ranganath : Map Projections (Kan. Ver.) Chetana Book House, Mysore.
3. Ervin Raisz: General Cartography, Mc Graw Hill Book Company,
4. Singh R.L: Elements of Practical Geography, Allahabad.
5. George P. Kellaway: Methuen & Co. Ltd. London.
6. Gopal Singh: Map work and Practical Geography, Surjeet Pub. New Delhi.
7. S.S.Nanjannavar & M.F.Karennavar: Practical Geography.
8. Dr. S.S.Kadaramandalagi: Practical Geography.
9. Prof. P.Mallappa :Map Projections. Chetana Book House, Mysore

B.A Semester- V
Discipline Specific Elective -(DSE) Under CBCS
GY-T E: I - REGIONAL GEOGRAPHY OF INDIA
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory : 04. Theory class 4hrs/week Total Theory: 60 Lectures
Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Marks

Total credits: 06: 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Location and Physical Aspects	Location, Size and Extant and Land Frontiers	18
		Physiographic Divisions.	
		Drainage, Climate, Soils and Natural Vegetations	
II	Population	Growth, Distribution and Density of Population	10
		Sex-ratio and Literacy.	
III	Agriculture	Types of agriculture.	17
		Cultivation, Distribution and production : <i>Food crops</i> - Rice and Wheat. <i>Commercial Crops</i> - Sugar Cane and Cotton. <i>Plantation Crops</i> - Tea, Coffee and Rubber.	
IV	Minerals and Industries	Distribution and Production: Iron ore, Manganese, Bauxite, Coal, and Petroleum	05
		Location factors of Industries	01
		Distribution and Production: Sugar, Cotton Textile, Iron and Steel, Aluminium, Paper and Cement Industries.	07
V	Transport	Road: National High ways and Quadrangle Corridor Railway: Railway Zone	02

Note: * Students can choose any one from the discipline specific elective paper either Regional Geography of India or Geography of Settlements

References:

- Gopal Singh: A Geography of India, Atmaram & Sons New Delhi.
- ICAR: Cropping pattern in India, 1974.
- Mathus S.M: Physical Geography of India, NBT, 1991.
- Ranganath : "sÁgÀvÀzÀ DyðPÀ aÄvÄÄÛ aÄtÄdâ "sÀÆUÉÆË¼Ä±Ä,ÀÛç
- Ranjit Thirtha: Geography of India, Raniat, Jaipur,1996.
- Khullar D.R: India A Comprehensive Geography, Kalyani Pub. Ludhiana, 2000.
- Tiwari R.C: Geography of India, Prayag Pustak Bhavan, Allahabad, 2003.
- qÁ. DAiÄii. J. aÄÄÄ- Äè: "sÁgÀvÀzÀ "sÀÆUÉÆË¼Ä±Ä,ÀÛç & qÁ. J. j. J. i. £ÄAdtÚ£ÄaÄgÄ
- qÁ. JA.©.UEqÄgÄ: "sÁgÀvÀzÀ DyðPÀ aÄvÄÄÛ aÄtÄdâ "sÀÆUÉÆË¼Ä±Ä,ÀÛç.
- l. aÄÄ@è¥Äà: "sÁgÀvÀzÀ DyðPÀ aÄvÄÄÛ aÄtÄdâ "sÀÆUÉÆË¼Ä±Ä,ÀÛç

B.A Semester- V
Discipline Specific Elective -(DSE) Under CBCS
GY-T E: II - GEOGRAPHY OF SETTLEMENTS
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory : 04. Theory class 4hrs/week Total Theory: 60 Lectures
 Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
 Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Marks

Total credits: 06 : 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Introduction	Meaning, Definition, Scope and Nature of Settlement Geography	08
II	Rural Settlements	Factors affecting the distribution of rural settlements. Origin and evolution of rural settlements.	20
		Types and Patterns of Rural Settlements.	
		Size and spacing of Rural settlements.	
		Morphology of Rural settlements – Physical, Functional and social.	
		Rural problems and planning.	
III	Govt. Recent Policies and Programmes for Rural Development	Sanitation and Water supply Program, Pradhana Mantri Grama Sadak Yojana, Pradhana Mantri Grameena Avasa Yojana, Pradhana Mantri Ujvala Yojana and Deen Dayal Upadhyaya Grameena Koushlya Yojana	05
IV	Urban settlements	Definition of urban places, origin of towns and functional classification of towns.	20
		Theories of Urban Land use: Concentric Zone theory, Multi Nuclei theory and Sector Theory	
		Urban Hierarchy, Primate City concept, Central place theory of Christaller	
		Rural – Urban Continuum. Characteristics and development of Urban.Fringe and Urban Slums.	
V	Govt. Recent Policies and Programmes for Urban Development	Smart City Mission, National Urban Livelihood Mission, National Heritage City Development & Angementation Yojana (HRIDAY), Swatch Bharat Mission, Amruta urban development scheme.	07
		Urban problems and planning.	

Note: * **Students can choose any one theory paper from the discipline specific elective paper either Regional Geography of India or Geography of Settlements**

Reference:

1. Husain M: Human Geography, Rawat Pub. Jaipur, 2003.
2. Nellson, Gabler & Vining: Human Geography, People Culture and Landscapes, 1995.
3. Norris and Haring: Political Geography, Charles E. Merill Pub. Co.
4. Dr. Ranganath: Principles of Human Geography (Kan. Ver.) Vidyanidhi, Gadag,
5. Singh R.Y: Geography of Settlements, Rawat Pub. New Delhi, 2007.
6. Harold Carter: The study of Urban Geography, 1982.
7. qÁ. J̄ ï.n.£ÁAiÄÄPÀ: Settlement Geography

B.A – Semester V
Discipline Specific Elective -(DSE) Under CBCS
GY-Pr. E: BASIC STATISTICS
 (WITH EFFECT FROM 2020-21 AND ONWARDS)
Practical-V

Credits: 02 : Practical class 4hrs/week Total Practical: 52 hrs
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
(Practical Sem. End Exam-30, Journal-05, Viva-Voce-05 marks)
 Duration of Examination 3hrs

Unit	Title	Sub-unit	Hrs
I	Introduction	Meaning, Importance and Limitations	04
II	Methods of Samplings, Sources of Data and Frequency Distribution	Sampling : Definition and Types	24
		Sources of Data : Primary and Secondary Data and Data Tabulation	
		Frequency Distribution : Histogram, Frequency Polygon, Frequency Curve and Ogive Curves	
III	Measures of Central Tendency and Dispersion	Measures of Central Tendency : Mean, Median and Mode	24
		Measures of Dispersion : Range, Quartile Deviation and Standard Deviation	

References:

1. Singh R.L: Elemets of Practical Geography, Kalyani Publishers, New Delhi, 1979.
2. Gopal Singh: Map Work and Practical geography, 2nd ed. Vikas Pub. New Delhi.
3. Mishra R.P: Fundamentals of Cartography: Prasaranga, Mysore University, 1969.
4. Zamir Alvi: Statistical geography, Methods and applications, Rawat Pub. Jaipur, 1995.
5. D.V. Jangannavar: Elements of statistics[

B.A – Semester V
Specific Elective Core -(SEC) Under CBCS
GY-T E III SEC: REGIONAL PLANNING& DEVELOPMENT
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: 02. Theory class 02hrs/week Total Theory: 30 Lectures
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
Duration of Examination 1.5 hrs

Unit	Title	Sub-unit	Hrs
I	Introduction	Concept, Need for regional planning and Types of Planning	08
II	Regions	Concept, Types and delineation of Regions: Formal and Functional Regions	04
III	Models of Regional Planning	Models of Regional Planning: Growth Pole Theory and growth foci concept in Indian context.	04
IV	Backward regions and regional plans	Planning for Tribal area Development, Planning for agriculture regions, planning for Drought prone area and DVC.	10
V	NITI Aayoga	The success story and the failures; NITI Aayoga.	04

Reference:

1. Blij H.J. De, 1971: Geography: Regions and concepts, John Wiley and Sons
2. Claval P.I., 1998: An Introduction to Regional Geography, Black Well Publishers, Oxford and Massachusetts.
3. Fried Mann 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. D.N.Nath (2009) :Regional Planning in India
6. Mahesh Chand and Vinay kumar Puri. (1983): Regional Planning in India
7. Johnson E.A.J. 1970: The organization of space in development countries, MIT Press
8. Peet R., 1999 : Theories of Development, The Guilford Press , New York.
9. Ray Choudhari (2001):An Introduction to Development and Regional Planning with special reference to India
10. R.P.Misra,K.V.Sundaram and V.L.S. Prakasa Rao: (1976)Regional Planning In India
11. R.P.Misra, D.V.Urs and V.K.Natraj: 1978 Regional planning and National Development
12. qÁ. J̄ ï.n.£ÁAiÀÄPÀ: ¥ÁæzÉÄ²PÀ AiÉÆÄd£ÉAiÄÄ ¢ÄÄÆ® vÀvÀéUÀ¼ÄÄ
13. qÁ. JA.©.UEqÀgÀ: ¥ÁæzÉÄ²PÀ AiÉÆÄd£ÉAiÄÄ ¢ÄÄÆ® vÀvÀéUÀ¼ÄÄ

B.A – Semester V
Generic Elective -(GE) Under CBCS
GY-T E GE: ELEMENTS OF PHYSICAL GEOGRAPHY
(WITH EFFECT FROM 2020-21 AND ONWARDS)

(OTHER THAN GEOGRAPHY STUDENTS)

Credits: 02. Theory class 02hrs/week Total Theory: 30 Lectures
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
Duration of Examination 1.5 hrs

Unit	Title	Sub-unit	Hrs
I	Origin of the Earth	Nebular Theory, Latitudes and Longitudes, Longitude and Time, International Date Line.	06
II	Lithosphere	The interior of the earth, Wegener's theory of continental drift. Formation, types and characteristics of Rocks Formation, Types and distribution: Earthquakes and Volcanoes.	06
III	Atmosphere	Structure and composition of the Atmosphere and Atmospheric heat budget. Mechanism of Monsoon Winds. Cyclones and Anti-Cyclones.	08
IV	Greenhouse effect	Global warming and Ozone layer depletion	05
V	Oceanography	Configuration of Oceans. Distribution of Temperature and salinity of the Indian and Pacific ocean	05

References:

1. Conserva H.T (2004): Illustrated Dictionary of Physical Geography, Author House, USA.
2. Gabler R.E , Peterson J.F and Trapasso L.M (2007): Essentials of Physical Geography (8th edition) Thompson Books / Cole USA.
3. Garrett N (2000) Advanced Geography, Oxford University Press.
4. Goudie A (1984): The Nature of Environment: An advanced Physical Geography, Basil Blackwell Publishers, Oxford.
5. Humblin W.K (1995): Earths 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, Platinim Publishers, Kolkata.
8. Strahler A N and Strahler A H (2008): Physical Geography, John Wiley & Sons New Yo
9. qÁ. !. ¢ÄÄ@è¥Àà : "sËwPÀ "sÀÆUÉÆË¼À±Á,ÀÛç
10. qÁ. gÀAUÀ£ÁxÀ: ¥ÁæPÀÈwPÀ "sÀÆUÉÆË¼À±Á,ÀÛçzÀ ¢ÄÄÆ®
vÁvÁéUÀ¼ÄÄ
11. qÁ. JA. ©. UËqÁgÀ: "sËwPÀ "sÀÆUÉÆË¼À±Á,ÀÛç

B.A Semester- VI
Discipline Specific Elective -(DSE) Under CBCS
GY-T F: I - ECONOMIC GEOGRAPHY OF THE WORLD
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory : 04. Theory class 4hrs/week Total Theory: 60 Lectures
Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Marks

Total credits: 06 : 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Economic Geography: An introduction	Definition, Scope and Nature of economic Geography	10
		Approaches, Recent trends in Economic Geography.	
II	Physical Aspects and Natural Regions of the world	Physiographic divisions, Drainage, Climate, and Natural Vegetation.	20
		Natural Regions of the World: Equatorial, Monsoon, Desert, Grassland and Tundra.	05
III	Agriculture	Types of farming :Shifting cultivation, Subsistence and Commercial farming	03
IV	Population	Growth, Distribution and Density	06
		Sex-ratio and Literacy.	
V	Mineral Resources, Industries and Transport	Production and Distribution: Iron Ore, Manganese, Gold, Coal, Petroleum, Natural Gas.	06
		Vocational factors of Industries	01
		Distribution and Production of major industries: Iron and Steel, Cotton Textile.	03
		Ocean Transport: North Atlantic Route, Suez, Asiatic Route, The cape of Good Hope and the Panama Canal Route.	06

Note: Students can choose any one from the Discipline Specific Elective paper either Economic Geography of the world or Population Geography

References:

- Alexander and Hartshorne: Economic Geography, Prentice Hall, 2nd Edition, 2000.
- Guha and Chattoraj: A New Approach to Economic Geography.
- Khanna and Gupts: World Resources and Trade, S. Chand & Co. New Delhi.
- Mallappa: Economic Geography, (Kan Ver.) Chetana Book House, Mysore, 2001
- qÁ. gÁAUÀ£ÁxÀ: ¥Àæ¥ÁAZÀZÀ DyöPÀ & ªÁtÁdå ¨sÀÆUÉÆÃ¼Á±Á,ÀÛç
- ¥ÉÆæ. J.ï.J.ï.£ÁAdtÚ£ÁªAgÁ: ¥Àæ¥ÁAZÀZÀ DyöPÀ & ªÁtÁdå ¨sÀÆUÉÆÃ¼Á±Á,ÀÛç

B.A Semester- VI
Discipline Specific Elective -(DSE) Under CBCS
GY-T F: II - POPULATION GEOGRAPHY

(WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: I. Theory: 04. Theory class 4hrs/week Total Theory: 60 Lectures
 Max. Marks 100. (80 Marks for Sem. end Examination and 20 marks IA)
 Duration of Examination 3 hrs

II. Practical: 02. Practical class: 4hrs/week. Total Practical: 52 hrs. Max. 50 Mark

Total credits: 06: 4 Theory 2 Practical

Unit	Title	Sub-unit	Hrs
I	Introduction to Population Geography	Definition, Nature and Scope. Approaches and sources of Population data.	10
II	Population growth and Distribution	Growth, Distribution and Density of World Population, with special Reference to India.	22
		Factors affecting the distribution of population.	
		Demographic Transition.	
		Fertility and Mortality: Factors affecting, Cause and Consequences.	
III	Population Composition	Sex-Ratio and Literacy	18
	Migration: Causes, Types and Consequences.		
IV	Population Theories	Malthus and Karl Henrich Marx	05
V	Government Policies	India's Population Policies	05

References:

1. Narris and Haring: Political Geography, E. Merill Pub. Co.
2. Dixit R.D: Political Geography, PHI, New Delhi, 2008.
3. Dr. Ranganath: Principals of Human Geography, Vidyanidhi, Gadag, 2008.
4. Chandana R.C: Geography of Population, Kalyani Pub. New Delhi,2008.
5. Mohammad & Izhar Hasan: Population Geography, New Delhi,2008.
6. Sudepta Adhikari: Political Geography of India, Sharada, Allahabad, UP.

B.A – Semester VI
Discipline Specific Elective -(DSE) Under CBCS
GY-Pr. F: FIELD BASED PROJECT REPORT
(WITH EFFECT FROM 2020-21 AND ONWARDS)

Practical-VI

Credits: 02 : Practical class 4hrs/week Total Practical: 52 hrs
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
(Practical Sem. End Exam-30, Journal-05, Viva-Voce-05 marks)
Duration of Examination 3hrs

Unit	Title	Sub-unit	Hrs
I	Field work in geographical studies	Role, values and ethics of field work.	04
II	Selection and definition of the problem	Rural / Urban / Physical / Human / Environmental.	04
III	Field Techniques and collection of data	Sources of data: Secondary data - published and un-published Primary data – Observation and questioner and interview. Sampling	20
		Designing and field report: Aims and Objectives, Methodology, Analysis. Interpretation and Report writing.	24

Note: * Each batch consists of 15 students and students have to collectively prepare a project report under a staff in charge (respective batch teacher) based on primary/secondary data collected from the Govt. / Non- Govt. Offices or /and during field survey.

* The duration of the field work should not exceed 10 days.

* The finally prepared one hard bound copy of the project report with Aims and objectives, Methodology, data base, Analysis, cartographic work, interpretation and references should be submitted to the Dept/College before the sem. end exam starts.

* Students must bring the project report at the time of sem. end exam, failing that such students will not be allowed to appear the practical exam.

* Due to technical reasons the student who has not appeared for sem. end practical exam and wish to appear in the subsequent year can bring his/ her earlier project report and appear the practical exam.

References:

1. Cresswell J., 1994, Research Design, Qualitative and Quantitative approach, Sage Publications.
2. Dikshit R.D: 2003, The Art and Science of Geography, Integrated readings, Prentice Hall of India, New Delhi.
3. Evans M: 1988, Participant Observation, The Researcher as a Research Tool, in Qualitative Methods in Human Geography, 2nd ed. Eyles and Smith, Polity.
4. Mukharjee, Neela: 1993, Participatory Rural appraisal, Methodology, and application concept, Publs Co. New Delhi.
5. Mukharjee, Neela: 2002, Participatory learning and action, with 100 field methods Concept Pub. New Delhi.

B.A – Semester VI
Specific Elective Core -(SEC) Under CBCS
GY-T F-III SEC- BASICS OF REMOTE SENSING
 (WITH EFFECT FROM 2020-21 AND ONWARDS)

Credits: 02. Theory/Practical class 02hrs/week Total Theory: 30 Lectures
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
 Duration of Examination 1.5 hrs

Unit	Title	Sub-unit	Hrs
I	Remote Sensing	Definition, Development, Platforms and Types	06
II	Aerial Photography	Principles, Types and Geometric	06
III	Satellite Remote Sensing	Principles, EMR Interaction with atmosphere and Earth surface; Satellites (Land sat and IRS) and Sensors	10
IV	Interpretation and Application of Remote Sensing	Land-use /Land Cover	06
V	Global Positioning System (GPS)	Principles and Uses	02

Practical Record: A project file consisting of 5 exercises will be done from Aerial Photos, Satellite Image (Scale, Orientation and Interpretation) and GPS field survey.

Reading List:

1. Campbell J. B, 2007: Introduction to Remote sensing, Guildford press
2. Jensen J. R, 2004: Introductory digital image processing: A Remote sensing perspective prentice hall.
3. Joseph G, 2005: Fundamentals of Remote sensing, United Press, India.
4. Lilley SandT.M. Kiefer R.W and Chipman J.W. 2004: Remote sensing and image interpretation, Wiley.
5. Nag P. and Kudra, M. 1998: Digital Remote Sensing, Concept, New-Delhi.
6. Rees W.G., 2001: Physical Principles of Remote Sensing, Cambridge University Press.
7. Singh R.B. and Murai S. :1998: Space Informatics for sustainable development, Oxford and IBH Pub.
8. Wolf P.R. and Dewit B.A., 2000: Elements of Photogrammetry : With applications in GIS Mc Graw Hills
9. I. aÄÄ@è¥Äà & qÄ. Dgï ,É@égÁdÄ: "sËÜÉÆÄ½PÀ aÄiÄ»w aÄaÄÄ,ÉÜAiÄÄ aÄÄÆ@ vÄvÄéUÄ¼ÄÄ,2019.

B.A – Semester VI
Generic Elective -(GE) Under CBCS
GY-T F GE-IV : PHYSICAL GEOGRAPHY OF INDIA
(WITH EFFECT FROM 2020-21 AND ONWARDS)

(OTHER THAN GEOGRAPHY STUDENTS)

Credits: 02. Theory class 02hrs/week Total Theory: 30 Lectures
Max. Marks: 50. Internal Marks 10 & Sem. End Exam:40 Marks
 Duration of Examination 1.5 hrs

Unit	Title	Sub-unit	Hrs
I	Spatial and space Relations	Location, Size, Extent and Land and Water frontiers of India	02
II	Physical features	Physiographic Divisions, Drainage, Climate, Soils and Natural Vegetation.	18
III	Climatic Regions of India	Climatic regions of India according to Koppen's scheme	01
IV	River Water Dispute	Krishna, Cauvery and Kalasa banduri	02
V	Natural Hazards and Disaster	Earth Quakes, Cyclones, Floods, Droughts, Landslides and Disaster Management	07

References:

1. Gopal Singh: A Geography of India, Atmaram & Sons New Delhi.
2. ICAR: Cropping pattern in India, 1974.
3. Mathus S.M: Physical geography of India,NBT, 1991.
4. Ranganath : Regional and Economic Geography of India, (Kan. Ver.) Vidyanidhi Prakashan Gadag,2006.
5. Ranjit Thirtha: Geography of India, Raniat, Jaipur,1996.
6. Khullar D.R: India A Comprehensive Geography, Kalyani Pub. Ludhiana, 2000.
7. Tiwari R.C: Geography of India, Prayag Pustak Bhavan, Allahabad, 2003.
8. qÁ. DAIÀii. J. aÄÄÄ- Àè: "sÁgÀvÀzÀ "sÀÆUÉÆË¼À±Á,ÀÛç & qÁ. J,ï.J,ï.ÉÀAdtÚ£ÀaÁgÀ
9. qÁ. JA.©.UËqÀgÀ: "sÁgÀvÀzÀ DyðPÀ aÄvÀÄÛ aÁtÂdâ "sÀÆUÉÆË¼À±Á,ÀÛç.
10. l. aÄÄ®è¥Àà: "sÁgÀvÀzÀ DyðPÀ aÄvÀÄÛ aÁtÂdâ "sÀÆUÉÆË¼À±Á,ÀÛç