



RANI CHANNAMMA UNIVERSITY

BELAGAVI

THE COURSE STRUCTURE & SYLLABUS OF UNDER GRADUATE

BACHELOR OF SCIENCE

GEOGRAPHY

1ST TO 6TH Semesters

w.e.f.

Academic Year 2020-21 and Onwards
Under

CHOICE BASED CREDIT SYSTEM (CBCS)

DEPARTMENT OF GEOGRAPHY

B. A / B. Sc. Semester wise Geography Course Scheme under Choice Based Credit System (CBCS) with Effect from 2020-21 Onwards

Sem.	Title of the Paper	Paper Code	Teaching Hours/ Week	Duration of Exam	Evaluation Pattern			Credits
					I A	Sem. End Exam	Total	
I	<u>Theory – 1.1</u> Physical Geography- Part A	DSC1.1	5	3	20	80	100	3
	<u>Practical – 1.2</u> Introduction to cartography	DSC- 1.2	3	3	10	40	50	1
II	<u>Theory – 2.1</u> Physical Geography- Part B	DSC- 2.1	5	3	20	80	100	3
	<u>Practical – 2.2</u> Representation of Relief	DSC- 2.2	3	3	10	40	50	1
III	<u>Theory – 3.1</u> Human Geography	DSC- 3.1	5	3	20	80	100	3
	<u>Practical – 3.2</u> Map Projections	DSC- 3.2	3	3	10	40	50	1
	Skill Enhanced Course (Compulsory Paper)							
	<u>Theory – 3.3 (Compulsory Paper)</u> Basics of Physical Geography	SEC- I - 3.3	2	2	10	40	50	2
IV	<u>Theory – 4.1</u> Regional Geography of Karnataka	DSC- 4.1	5	3	20	80	100	3
	<u>Practical – 4.2</u> Basics Statistics	DSC- 4.2	3	3	10	40	50	1
	Skill Enhanced Course (Compulsory Paper)							
	<u>Theory – 4.3 (Compulsory Paper)</u> Geography of Karnataka	SEC- II 4.3	2	2	10	40	50	2
V	<u>Theory – 5.1 [Compulsory]</u> Environmental Geography	DSE- 5.1	4	3	20	80	100	3
	(Choice any one from 5.2-a or 5.3-b) <u>Theory – 5.2-a</u> Development of Modern Geography	DSE- 5.2	4	3	20	80	100	3
	<u>Theory – 5.2-b</u> Population Geography	DSE- 5.3	4	3	20	80	100	3
	<u>Practical 1st - 5.3</u> Interpretation of SOI Topographical Maps	DSE- 5.4	3	3	10	40	50	1
	<u>Practical 2nd – 5.4</u> Representation of Geographical Data	DSE- 5.5	3	3	10	40	50	1
	Skill Enhanced Course (Compulsory Paper)							
	<u>Theory – 5.5</u> Population Geography (Compulsory Paper)	SEC- III – 5.6	2	2	10	40	50	2

VI	<u>Theory – 6.1</u> [Compulsory] Regional Geography of India	DSE- 6.1	4	3	20	80	100	3
	<i>(Choice any one from 6.2-a or 6.2-b)</i> <u>Theory – 6.2-a</u> Settlement Geography	DSE- 6.2-a	4	3	20	80	100	3
	<u>Theory – 6.2-b</u> Regional Planning and Development	DSE- 6.2-b	4	3	20	80	100	3
	<u>Practical 1st – 6.3</u> Interpretation of IMD Weather Reports	DSE- 6.3	3	3	10	40	50	1
	<u>Practical 2nd – 6.4</u> Field Based Project work/Report	DSE- 6.4	3	3	10	40	50	1
	Skill Enhanced Course (Compulsory Paper)							
	<u>Theory – 6.5</u> Geography of India (Compulsory Paper)	SEC- IV – 6.5	2	2	10	40	50	2

Note:

DSC: Discipline Specific Course Papers [All DSC Papers are Compulsory for I sem to IV sem]

DSE : Discipline Specific Elective Papers [Students can select any one elective papers from DSE -5.2-a or 5.2-b

for V semester and DSE – 6.2-a or 6.2-b for VI semester.

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REGULATION AND SCHEME OF INSTRUCTIONS

Regulations governing three years Semesterized, Bachelor Degree Programmes of Rani Channamma University, Belagavi (framed under Section 44(1) (c) of the K.S.U. Act 2000) with effect from 2020-21 onwards.

I. Goals & Objectives:

The following aims have been kept in view while designing the syllabus of Bachelor's Degree Programme (B.A/B. Sc) in Geography as one of the optional subjects.

- To bring the geographical awareness among the students.
- To provide a fundamentals of spatial information of the earth surface.
- To train and teach geography effectively at various levels in the educational institutions.
- To train and provide information related to spatial and regional level of planning.
- To provide adequate geographical knowledge and skills as needed for the competitive examinations.
- Organizing the professional tours for every year to cultivate research culture among the students.

II. Admission Criteria:

A candidate should have passed PUC/10+2 with Geography/other subject is eligible to choose Geography as one of the optional subjects at the under Graduate Course. The candidate should have obtained at least 40 per cent of aggregate marks. Relaxation in respect of SC/ST etc. will be followed as per the prevailing rules of the University. Other rules for admissions are as per the University notification from time to time.

III. Medium of Instruction:

The medium of instruction shall be English, however, the students are allowed to write the examination in Kannada Medium also.

IV. Attendance:

A minimum of 75% of attendance in each semester (both theory and practical) is compulsory.

V. Scheme of Instruction:

1. The M.A/M.Sc Master's Degree holders in Geography can only teach the subject at UG Level. However, NET/SLET/Ph.D. is necessary.
2. Geography as an optional subject at Under Graduate (UG) Level, which consists of *six* semesters, it includes eight *theory* papers (DSC) and *eight practical* papers (DSC). There will be **one theory** paper and **one practical** paper in the each semester **i.e. I, II, III, and IV semesters**. Whereas, in the **V and VI** semesters, there will be **two theory papers** and **two practicals** each of **100 and 50 marks** respectively. The duration of teaching hours for the theory paper will be **five (05) hours per week** for **I to IV** semester, whereas the duration of teaching hours for the theory paper shall be **four (04) hours** for **V and VI** semesters. The practical paper shall be **three (03) hours per week** for **I to VI** semesters. Each theory paper will have 5 modules/units (divided into chapters/units). The duration of each semester is being 16 weeks excluding examination period. In addition to eight theory papers (DSC) there shall be Skill Enhancement Courses (SEC) from **IV** to **VI** semester which are compulsory papers.
3. The Practical classes are to be conducted in separate batches. Each batch consists of 15 students with one teacher, for 16-27 students with two teachers for three hours per week. In case, if student number is below 15 is also considered as one batch with one teacher. Each batch (depends on the number of students) must be supervised by one/two teachers for giving instructions, supervision of practicals and correction of journals/records.

VI. Scheme of Theory Examinations:

1. Theory course shall carry 100 marks of which 80 marks allotted for semester end examination and 20 marks for internal assessment (IA) that will be carried out as per the University norms.
2. Each theory course will have a question paper of 3 hours duration and the maximum of 80 marks. Minimum marks to pass in each paper of theory are 40 percent.
3. There shall be three sections in every theory question papers viz. A. B. & C. **Section A** shall have 12 questions of each 2 marks and candidate have to attempt 10 questions only (10X2=20 marks). **Section B** shall have 8 questions of each 5 marks and the candidate have to attempt 6 questions only (6X5=30 marks). **Section C** shall have 6 questions of each 10 marks and the candidate has to attempt 3 questions (3X10=30 marks).

VII. Scheme of Practical Examination:

1. Each practical course shall carry 50 marks of which **10 marks** are allotted for IA marks (out of which **07 marks** are kept for practical records journals/ assignments/ dissertation and **03 marks** allotted for attendance.) The **40 marks**

examination will be conducted at the end of each semester, out of which **5 marks** will be kept for viva and **35 marks** for written examination as per the instructions given by the University.

2. Each practical course will have a question paper of 3 hours duration and the maximum of 40 marks.

3. The practical examination is to be conducted in batches and each batch consists of minimum of 15 candidates.

4. There will be one internal examiner and one external examiner to conduct the practical examination for each batch in each semester.

5. Minimum marks to pass in each paper of practical are 40 percent.

6. In the VI semester, there will be one compulsory practical paper i.e. **Field Work/Project/ Dissertation** and concerned teacher has to select study area (Village/Block/Taluka/City level) for the preparation of final dissertation report in consultation and approval with the concerned HOD/ Principal of the institution.

*The field work/project/ dissertation carries **40 marks**, of which **15 marks** are allotted to preparation of the dissertation and **25 marks** are kept for **viva-voce** of the candidates (Objectives/ methodology/ database /organization of the work/ presentation/analytical skill and answering of the questions by the students).*

7. Each candidate shall complete the laboratory work of the journal/practical records, it shall be certified and signed by both the concerned course teacher and the Head of the Department of Geography of the concerned college compulsorily, to certify that the candidate has satisfactorily completed the prescribed course in practical and same should be produced at the time of practical examination. No students shall be allowed for the examination without completed journal/practical records.

8. There is no provision for revaluation or seeking improvement in practical paper examination and internal assessment marks.

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

Ist SEMESTER - THEORY PAPER- 1.1: PHYSICAL GEOGRAPHY - Part A

Objectives: The objective of the course is to familiarize the students with the need for understanding of physical geography with reference to certain fundamental concepts, focusing on the unity of Geomorphology in the earth materials and the processes with or without an element of time. Process of component of Geomorphology is segmented into the internal and external processes of landscape evolution.

Course structure : One Theory and One Practical

Teaching Theory : 05 hours per week

Practical : 03 hours per week

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA), one Practical of 40 Marks and 10 Marks for internal assessment (IA). Out of 10 IA marks 7 marks are kept for practical records / journals and 3 marks for attendance.

Units	Topic	Teaching Hours
I	Introduction to Physical Geography: Meaning, definition, nature, and scope of Physical Geography, Relationship between Physical Geography and other branches of sciences, Significance of Physical Geography.	08
II	Earth as a Planet: Latitude and Longitudes: Rotation and Revolution of the earth, Origin and Evolution of the Earth; Nebular & Tidal theory, Interior of the Earth, Earth Movements: Orogenic and Epeirogenic movements: Faults, Folds & related land forms.	10
III	Wegner's theory of Continental Drift; Weathering and its types; Rocks; origin, types and distribution and their economic significance	12
IV	Endogenetic & Exogenetic Forces; Earthquakes and Volcanoes and its distribution, causes and effects, Examples of earthquakes in India	10
V	Denudation- Work of river, Wind, Glacier and its effects. Morphometric Analysis: Catchment/basin area, Water dividing line, Stream ordering, Drainage pattern. Major deltas of Indian rivers.	12
Total		52 hours

Reference:

1. Physical Geography: Strahler & Strahler
2. Physical Geography: R. N. Tikka
3. Physical Geography: Majid Hussain
4. Physical Geography: Das Gupta & Kapoor
5. Physical Geography (Kannada): Mallappa P
6. Physical Geography (Kannada): Ranganath
7. Physical Geography (Kannada): M. B. Gaudar
8. Physical Geography (Kannada): S. S. Nanjannavar
9. Fundamentals of Physical Geography: F. J. Mankhouse

PRACTICAL

Units	Topic	Teaching Hours
I	Cartography: Definition and importance of Cartography and cartography as a science of human communication	05
II	Maps and Scales: Maps: Meaning and Classification of maps, Characteristic features and uses of maps Scale: Definition and types of Scale, Conversion of Scale; V.S. into R.F. (five exercises each) and R.F. into V.S. (five exercises each). Calculation of Distance and Time: Latitudinal and Longitudinal	10
III	Construction of Scale: Graphical/Plane, Comparative, Time, Pace and Diagonal scale and their importance (2 exercises each)	12
IV	Enlargement and Reduction of Maps by Graphical Method (three exercises each)	08
V	Viva	
	Total	35 hours

Reference:

1. R. L. Singh: Elements of Practical Geography
2. Gopal Singh: Practical Geography
3. Dr. Ranganath: Practical Geography (Kannada)
4. Singh and Kanayia: Practical Geography
5. R. P. Misra and Ramesh: Fundamental of Cartography
6. M. F. Karennavar & S. S. Nanjannavar: Practical Geography (Kannada)
7. Pijushkanti Saha & Partha Basu- Advanced Practical Geography.

B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

IInd SEMESTER THEORY PAPER – 2.1 PHYSICAL GEOGRAPHY – Part B

Objectives: The aim of this course is to provide an understanding of weather and climate phenomena, dynamics of global climates, interaction between living organisms with climate and physical environment. Further, this paper is to provide in-depth understanding of different oceans, such as evolution of the oceans, physical and chemical properties of seawater, atmospheric and oceanographic circulation.

Course structure : One Theory and One Practical

Teaching Theory : 05 hours per week (assignment / seminar/ discussion)

Practical : 03 hours per week

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA) One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Units	Topic	Teaching Hours
I	Weather and Climate: Definition and significance of Climatology, Distinction between weather and climate, elements and controlling factors of weather and climate, Composition and structure of atmosphere	08
II	Atmospheric Temperature: Insolation and Heat Balance (Budget), Vertical & Horizontal distribution of Temperature & Isothermal Maps. Atmospheric Pressure: measurement of pressure, pressure belts and Isobaric Maps. Winds: Planetary, Seasonal & Local winds, Cyclones and Anti-Cyclones	12
III	Atmospheric Moisture: Hydrological Cycle, Humidity, Clouds and its types, condensation and types of Rainfall.	08
IV	Oceanography: Meaning & Significance of Oceanography, Distribution of Land and Water bodies, Hypsographic curve, Bottom relief of Oceans; continental shelf, slope and deep sea plains.	12
V	Distribution of Temperature and Salinity of Ocean Water, Water Waves, Tidal theories and types of tides, Ocean Currents: Pacific, Atlantic & Indian ocean, Coral reefs, Oceans as a store house of mineral and food resources, Human impact on marine environment.	12
	Total	52 hours

Reference:

1. Strahler & Strahler: Physical Geography
2. R. N. Tikka: Physical Geography
3. Majid Hussain: Physical Geography
4. Das Gupta & Kapoor: Physical Geography
5. Mallappa P: Physical Geography (Kannada)
6. Ranganath: Physical Geography (Kannada)
7. M.B.Gaudar: Physical Geography (Kannada).

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

IInd SEMESTER PRACTICAL PAPER – 2.2 : REPRESENTATION OF RELIEF

PRACTICAL

Units	Topic	Teaching Hours
I	Significance of Relief Features in Physical Geography	02
II	Different Methods of Representation of Relief; Pictorial/Qualitative methods- Hachures, Layer- tinting/Colouring and Hill shading and Mathematical/Quantitative methods- Contours, Form lines, Spot heights, Bench marks and Trigonometrical stations	08
III	Contour Diagrams: Drawing of cross section of the following geographical features with brief explanation; a. Hills with different types of Slopes- uniform, gentle, steep,convex, concave and undulating slopes b. Types of Valleys: V-Shaped Valley, U-Shaped Valley, Gorge, Cirque and Hanging Valley c. Landforms: Mountain, Plateaus, Mesa, Escarpment and Spur d. Landforms: Waterfall, Rapids, Cliff, Ridge/Saddle, Pass and Volcano with Crater e. Coastal Landforms: Fiord and Ria coast	25
IV	Viva	
	Total	35 hours

Reference:

1. R. L. Singh: Elements of Practical Geography
2. Gopal Singh: Practical Geography
3. Dr. Ranganat: Practical Geography (Kannada Version)
4. Singh and Kanoj: Practical Geography
5. R. P. Misra and Ramesh: Fundamental of Cartography
6. M. F. Karennavar & S. S. Nanjannavar: Practical Geography
7. M .F. Karennavar & S. S. Nanjannavar: Practical Geography (Kannada Version)
8. Pijushkanti Saha & Partha Basu: Advanced Practical Geography

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
IIIrd SEMESTER -THEORY PAPER - 3.1 : HUMAN GEOGRAPHY

Objectives: To understand the nature of man- environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living; to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the global community.

Course structure : One Theory and One Practical

Teaching Theory : 05 hours per week

Practical : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA) One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Units	Topic	Teaching Hours
I	Nature, Scope and Significance of Human Geography, Relationship between Man and Environment. Concepts and recent trends and different approaches in Human Geography.	10
II	Broad Racial groups of the world, classification of races, main characteristics and distribution pattern of major races of world.	10
III	Impact of environment on the mode of life on Primitive population groups of the World, Pygmies, Bushman, Sakais, Semongs, Eskimos and Kirghies.	12
IV	Indian tribal groups: Mode of life of Todas, Gonds, Santals, Bhills and Nagas and their socio-economic activities.	10
V	Population: Growth, trend of population in the world and Distributional pattern of Density of population in the world and factors influencing the distribution of population.	10
Total		52 hours

Reference:

1. Alexander - Economic Geography
2. Majid Hussain- Human Geography
3. Peter Haggett- Locational Analysis in Human Geography
4. Davis K. - Man & Earth
5. Ranganth and P. Mallappa- Human Geography (Kannada)
6. P.Mallappa.- Human Geography (Kannada)
7. M.B.Goudar.- Human Geography(Kannada)
8. S.S.Nanjannvar - Human Geography (Kannada)

B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
IIIrd SEMESTER PRACTICAL PAPER – 3.2 : MAP PROJECTIONS

PRACTICAL

Units	Topic	Teaching Hours
I	Map Projection : Introduction , meaning, classification and importance	05
II	Zenithal Projections : Graphical construction, properties of Following projections a. Polar Zenithal Gnomonic projection b. Polar Zenithal Stereographic projection c. Polar Zenithal Orthographic project	10
III	Conical Projections: Graphical construction, properties of following Projections a. Conical projection with one standard parallel b. Conical projection with two standard parallel c. Bonne’s projection	10
IV	Cylindrical Projections: Graphical construction, properties of following Projections a. Simple cylindrical projection b. Cylindrical Equal area projections and c. Mercator’s projection	10
V	Viva	
	Total	35 hours

Reference:

1. R. L. Singh: Elements of Practical Geography
2. Gopal Singh: Practical Geography
3. Dr. Ranganat: Practical Geography (Kannada Version) Singh
4. Kanoj: Practical Geography
5. R. P. Misra and Ramesh: Fundamental of Cartography
6. M. F. Karennavar & S. S. Nanjannavar: Practical Geography’
7. M .F. Karennavar & S. S. Nanjannavar: Practical Geography (Kannada Version)
8. Pijushkanti Saha & Partha Basu: Advanced Practical Geography

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

IIIrd SEMESTER – SKILL ENHANCEMENT COURSE (SEC)- compulsory paper

SEC PAPER – 3.3 : BASICS OF PHYSICAL GEOGRAPHY

Units	Topic	Teaching Hours
I	Meaning and definition of Physical Geography, the solar system, Latitudes, Longitudes (Meridians and Parallels), International Date Line (IDL) , Indian Standard Time (IST), Greenwich Mean Time (GMT), Rotation and Revolution of the earth and their effects,	10
II	Interior structure of the Earth, Rocks and weathering and their types, Volcanoes, Earthquakes; their causes and effects.	05
III	Weather and Climate, composition and structure of Atmosphere, Insolation and controlling factors.	05
IV	Atmospheric Pressure, pressure Belts, types of wind, Hydrological cycle, Air masses, Types of rainfall, cyclones ; their causes and effects.	10
V	Bottom Relief of ocean water ; Continental Shelf, Slope, Deep, Ridges, Plane. Distribution of temperature and Salinity, Ocean currents, Tides and its types, coral reefs and its types. Ocean as a store house of food and minerals.	10
Total		40 Hrs

References

- 1.Fundamentals of Physical Geography –Majid Husain
- 2.Physical Geography – Savindar singh
- 3.Physical Geography –R.N.Tikka
4. Physical Geography – D.S.Lal
- 5.Principles of Physical Geography- Dr.Ranganath(Kannada&English)

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

IVth SEMESTER THEORY PAPER – 4.1 : REGIONAL GEOGRAPHY OF KARNATAKA

Objectives: To understand the Karnataka regions in terms of various physical divisions, their important characteristics and intra-regional disparities in agriculture and industries and to analyze natural and human resource endowments and their conservation and management. The main purpose of this paper is to gain knowledge and understand regional strength of the region and to motivate the students for competitive exams.

Course Structure : One Theory and One Practical

Teaching Theory : 05 hours per week

Practicals : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA). One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Units	Topic	Teaching Hours
I	Karnataka : Location and Extent, Physical divisions, Drainage, Climate, Soils and Natural Vegetation.	12
II	Water Resource and Irrigation: Types of irrigation and River projects- Krishna, Cauvery and Tungabhadra. Agriculture: Meaning and importance of Horticulture and Floriculture. Cultivation, production and distribution of Rice, Pulses, Sugarcane, Cotton, and Coffee.	10
III	Mineral Resources: Distribution and Production of Iron ore, Manganese and Bauxite. Hydel and Thermal Power Plants and their economic significance.	10
IV	Industries: Location Factors of Industries, Distribution and Production of Iron and Steel, Sugar, Cotton and Paper industry in Karnataka. Transport: Road, Railway and Air, Major Ports of Karnataka.	10
V	Population – Growth and Density of Population. Urbanization: Meaning, Trends of Urbanization in Karnataka. Tourism: Meaning, Significance and major tourist centers in Karnataka. Locate the important elements on the given map of Karnataka like - hills, rivers, projects, soils, roads, towns and tourist centers, major cities, national parks and sanctuaries, major ports. (<i>Note: Staff in charge should supply the outline map of Karnataka and train the students and it has to be treated as compulsory question in semester end examination.</i>)	10
Total		52 hours

Reference:

1. Karnataka State Gazetteer: Volume I & II
2. P. Mallappa: Geography of Karnataka ((English & Kannada Version)
3. Misra R.P: Geography of Mysore State
4. NBK Reddy and Murthy G.S: Regional Geography of Mysore State
5. Ranganath: Regional Geography of Karnataka (English & Kannada Version)
6. Nanjannavar S. S: Geography of Karnataka. (English & Kannada version)

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
IVth SEMESTER PRACTICAL PAPER – 4.2 BASIC STATISTICS

PRACTICAL

Units	Topic	Teaching Hours
I	Definition and meaning, use of statistical methods in Geography Data: Defining Data, Types of Data: Nominal, Ordinal, Interval and Ratios, Collection of Data: Primary and Secondary Data and Classification and Tabulation of data	08
II	Sampling: Methods and Types of Samplings Formation of Frequency Distribution: Frequency Table, Drawing of Histogram, Frequency Curve, Polygon and Ogive Curve.	08
III	Measures of Central Tendency: Mean, Median and Mode	08
IV	Measures of Dispersion : Range, Quartile Deviation, Mean Deviation, Standard Deviation and Co-efficient of Variation. Correlation: Rank order Correlation and Pearson's Product Movement correlation	11
V	Viva	
	Total	35 hours

Reference :

1. R.L.Singh- Elements of Practical Geography
2. Gopal Singh- Practical Geography
3. Dr. Ranganath - Practical Geography : (Kannada)
4. Singh and Kanoj- Practical Geography
5. R.P.Misra and Ramesh- Practical Geography :Fundamental of Cartography
6. M.F.Karennavar & S.S.Nanjannavar.- Practical Geography : (Kannada)
7. B.S.Negi.- Statistical Geography
8. Basic Statistics : S.P. Gupta
9. Statistical Methods In Geographical Studies : Mahammad Aslam.
10. Advanced Practical Geography-Pijushkanti Saha & Partha Basu

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
IVth SEMESTER – SKILL ENHANCEMENT COURSE (SEC)
SEC PAPER – 4.3 : GEOGRAPHY OF KARNATAKA

Units	Topic	Teaching Hours
I	Location, Extent, Size and Administrative and physical divisions of Karnataka, Major Rivers, Climate – mechanism of monsoon, soils and Vegetation of Karnataka.	10
II	Major River projects - Krishna, Cauvery and Tungabhadra projects, Major agriculture crops: food crops, pulses, commercial crops, plantation crops, horticultural crops and their method of cultivation.	05
III	Minerals and Power Resources of Karnataka- Iron ore, Bauxite Hydrel, Thermal power and solar energy and its uses.	05
IV	Industries and Transport : Locational factors of industries, Iron & steel, Sugar, paper, cotton textiles and IT industries of Karnataka, Major Roads, Railways, Airports and Sea Ports of Karnataka	10
V	Population and Urbanization- Growth, Distribution and density of population in Karnataka, Urbanization in Karnataka, Major cities and Metropolitan cities.	10
	Total	40 Hrs

References

1. Geography of Mysore state – Dr,T.N. Achutarao
2. Geography of Karnataka- Dr. Ranganath
3. Geography of Karnatak- P.Mallappa
4. Geography of Karnataka – S.S.Nanjannavar

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
Vth SEMESTER THEORY - (OPT.- COMPULSORY)
PAPER 5.1 : ENVIRONMENTAL GEOGRAPHY

Objectives: The basic objective of this course is to apprise the students with the interrelationship between Man and his environment within which he lives and his linkages with other organisms. The course further aims to give broad perspective ideas of environment, ecology and ecosystem. The information and their interaction between living organisms with physical and cultural environment. The importance of conserving bio-diversity to maintain ecological balance has also been emphasized in this course.

Course Structure : One Theory and One Practical

Teaching Theory : 04 hours per week

Practicals : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA). One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Unit	Topic	Teaching Hours
I	Definition, Scope and Content of Environmental Geography. The types of environment. Ecosystem: Structure, Functions and Energy flow and causes for ecological imbalance.	08
II	Biodiversity: Meaning and types of Biodiversity, Biodiversity at the local, regional and global level. Role of Govt. and NGO's in conservation of biodiversity. Threats to biodiversity.	12
III	Environmental degradation and its types, impact of man on environmental degradation, Pollution: Types of Pollution- Air, water, noise and soil, Causes and Effects of Pollution.	12
IV	Global Warming, Depletion of Ozone Layer and its controlling Measures. Waste management: Urban and industry and their effects.	10
V	Man and Environment relationship. Man's influence on Vegetation, Biotic Life, Climate, Soil and Water. Population Explosion and its impact on Environment, Management of quality of Environment and Human Health hazards.	10
Total		52 hrs.

Reference:

1. R.B. Singh(1990) Environmental Geography, Heritage Publishers New Delhi.
2. Strahler. A.N. The Earth Sciences, Haper International Education, New York.
3. Strahler A.N.& Strahler.A.H, Geography of man's Environment, John Wiley & sons
4. Savinder Singh, Environmental Geography, Prayag Pustak Bhawan,1997.
5. Kates,BI &White.GF, The Environment as Hazards, Oxford, New York.
6. Saxena.H.M (2000) Environmental Geography, Rawat publication, New Delhi.
7. H.K.Gupta(Ed) Disaster Management, University Press, India, 2003.

B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
Vth SEMESTER –THEORY PAPER-(Select any one)

OPT. PAPER 5.2 - a : DEVELOPMENT OF MODERN GEOGRAPHY

Objectives: This paper is intended to acquaint the students with distinctiveness of geography as a field of learning in social science and science as well as in natural science. The philosophy and methodology of the subject is discussed in length and to provide the students for comparative understanding of the development of the history of geographic thought.

Course structure : One Theory and One Practical

Teaching Theory : 04 hours per week

Practical : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA)
 One Practical of 40 Marks and 10 Marks (7 marks for Journal/Practical records as internal assessment (IA) and 3 marks for attendance.

Units	Topic	Teaching Hours
I	Introduction to Geographical Thought-Philosophy of Geography, Early Modern Geography, Geography as a Spatial Science	10
II	Founders of Modern Geography: i.) Alexander Von Humbolt, ii) Carl Ritter, iii) Friedrich Ratzel iv) Vidal de la Blache, v) William Morris Davis vi) Ellen Churchill Sample vii) Halford J. Mackinder and viii) Richard Hartshorne	12
III	Development of Geography as a study of- a) Scientific Discipline, b) Man-Environment Relationship with reference to Determinism & Possibilism, c) Areal Differentiation d) Spatial Organization- Structure, Pattern & Process e) Inductive vs deductive, and f) Quantitative vs qualitative.	10
IV	Development of Scientific Method, Models, Hypothesis, Laws & Theories, Quantitative revolution.	10
V	Approaches in Geography- Positivism, Humanism, Radicalism, Behaviouralism and analogies and Paradigms and Philosophy in Geography.	10
Total		52 hours

References:

1. Adhikari Sudepta (1972) :Fundamentals of Geographic Thought Chaitanya Publishing House, Allahabad.
2. Cook and Johnson: Trends in Geography, Pergamow Press London.
3. Dickinson R.E.(1969): The Makers of Modern Geography, Rout/Edge & Kegan Paul, London.
4. Dixit R.D. (1999) : Development of Geographic Thought, Longmans India Limited
5. Free Man T.W.(1965): Geography As Social Science, Harper International Edition, Harper & Row Publishers, New York.
6. Harvey D. (1969): Explanation in Geography London, Edward Arnold.
7. Hartshorne R.(1959): Perspective on the Nature of Geography Rand McNally, Chicago.
8. Majid Hussain (1999): Geographic Thought Rawat Publishing House, Jaipur.
9. Holt Jensen, Arid: (1998): Geography: History and Concepts, Sage Publication, New Delhi.
10. Richard Peet (1977): Radical Geography - Alternative View Points On Contemporary Social Issue, Methuen & Co. Ltd, London.

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
Vth SEMESTER –THEORY PAPER - (Select any one)
OPT. PAPER 5.2– b : POPULATION GEOGRAPHY

Objectives: The objectives of this course are to understand the spatial and structural dimensions of population and emerging issues. The course is further aimed at familiarizing the students with global and regional level problems and equips them for comprehending the Indian situation.

Course structure : One Theory and One Practical

Teaching Theory : 04 hours per week

Practical : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA) One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Units	Topic	Teaching Hours
I	Population Geography: Nature, Scope and Significance of Population Geography, Population Geography as Specialized Branch, Growth, distribution and density of population in India, Factors affecting the distribution of population.	12
II	Composition and Structure of Population: Age structure, Literacy, Sex ratio, Life expectancy, Working population and Occupational structure of population and Dependency ratio.	08
III	Human resources, optimum, over and under population, Population Pressure- causes and consequences Population Theories : Malthusian and Karl Mark's theory, Demographic Transitions and its stages.	15
IV	Population Change: Meaning and determents of Fertility, Mortality and their consequences. Migration; definition, types, pull and push factors and consequences of Migration.	10
V	Population policy in India, Population problems and remedial measures.	07
Total		52 hours

Reference:

1. Clarke John: Population Geography
2. Threwartha: A Geography of Population World Pattern
3. Hussain M: Human Geography
4. Chandna: Population Geography
5. Siddu and Sawant: Population Geography
6. Garnier B.J: Geography of population
7. Ghosh B.N: Fundamentals of population Geography.

B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

Vth SEMESTER – PRACTICAL-I

PAPER – 5.3 : INTERPRETATION OF SOI TOPOGRAPHICAL MAPS

PRACTICAL		
Units	Topic	Teaching Hours
I	SOI Toposheets: Meaning and its importance, Indexing of SOI Toposheets, Marginal Information of Toposheets and Colours, Conventional signs and symbols used in Toposheets.	05
II	Theoretical background for the identification and interpretation of various features mainly (without supplying the toposheets) a) Landforms- mountains, plains and plateaus. b) Drainage- trellis, dendritic, parallel, radial and dispersing c) Natural Vegetation- trees, jungles, forests and its types d) Settlements- nucleated/compact, dispersed/scattered, linear and radial patterns. e) Transport- types of roads, railways and air.	10
III	A. Detail interpretation of given SOI Toposheets of the following features: (at least each of one exercise) 1. Relief 2. Drainage 3. Vegetation 4. Settlements 5. Means of communication 6. Irrigation and Land use B. Over all Interpretation of given SOI Toposheets (at least two exercise)	15
IV	Drawing of cross section and calculation of Vertical Exaggeration (at least three exercises).	05
V	Viva	
Total		35 hours

References:

1. R.L.Singh- Elements of Practical Geography
2. Gopal Singh- Practical Geography
3. Dr. Ranganath - Practical Geography : (Kannada)
4. Singh and Kanoj- Practical Geography
5. R.P.Misra and Ramesh- Practical Geography :Fundamental of Cartography
6. M.F.Karennavar & S.S.Nanjannavar.- Practical Geography : (Kannada)
7. B.S.Negi.- Practical Geography
8. Pijushkanti Saha & Partha Basu- Advanced Practical Geography.

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

Vth SEMESTER PRACTICAL- II

PAPER – 5.4 : REPRESENTATION OF GEOGRAPHICAL DATA

PRACTICAL

Units	Topic	Teaching Hours
I	Relevance of Representation of Population, Statistical & Geographical Data	03
II	Graphical representation of Data: Bar Graphs: Single, Double, Multiple, Compound, Band Graph and their Interpretation. Line Graphs: Single, Double, Multiple Line Graphs, Climograph, Hythergraph, Ergo Graph, Pyramid Graph and their interpretation.	15
III	Diagrammatic representation of data: Pie Diagram, Block Pile, Sphere Diagram, Wind Rose and their Interpretation	07
IV	Maps: Dot Maps, Choropleth, Isopleth Maps and their Interpretation	05
V	Located Map Diagrams: Pie, Proportional Circles, Spheres & Block Diagrams (Note: By selecting suitable data at talukas in the district/districts in the state has to be represented by selecting these diagrams on the map.)	05
	Viva	
	Total	35 hours

(Note: For each practical exercise, the staff in charge has to provide the recent suitable Data, outline maps and graphs to the students in regular practical classes)

Reference:

1. R. L. Singh: Elements of Practical Geography
2. Gopal Singh: Practical Geography
3. Dr. Ranganat: Practical Geography (Kannada Version)
4. Singh and Kanoj: Practical Geography
5. R. P. Misra and Ramesh: Fundamental of Cartography
6. M. F. Karennavar & S. S. Nanjannavar: Practical Geography
7. M.F.Karennavar&S.S.Nanjannavar:Practical Geography (kannada Version)
8. Pijushkanti Saha & Partha Basu: Advanced Practical Geography

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

Vth SEMESTER – SKILL ENHANCEMENT COURSE (SEC) (compulsory paper)
SEC PAPER – 5.5 : POPULATION GEOGRAPHY

Units	Topic	Teaching Hours
I	Population Geography: Meaning and definition of Population Geography. Sources of data – Census, Vital Statistics and National Sample Survey (NSS).	04
II	Growth, distribution and density of population with special reference to India, Factors affecting the distribution of population. Population policies in India.	10
III	Composition and Structure of Population: Age structure, Literacy ratio, Sex ratio, Life expectancy, and Dependency ratio. Characteristics of Rural and Urban population, population pyramid, occupational structure.	10
IV	Theories of population: Malthusian, Karl Marx and Demographic Transitions theory.	08
V	Population Dynamics: Fertility, Mortality, Fecundity. Migration – Definition, Types, Measures, Push and pull factors for migration. Problems and prospectus of population in India.	08
Total		40 hours

Reference:

1. Clarke John: Population Geography
2. Threwartha: A Geography of Population World Pattern
3. Hussain M: Human Geography
4. Chandna: Population Geography
5. Siddu and Sawant: Population Geography
6. Garnier B.J: Geography of population
7. Ghosh B.N: Fundamentals of population Geography

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
VIth SEMESTER – OPT. THEORY (Compulsory)
PAPER- 6.1 - REGIONAL GEOGRAPHY OF INDIA

Objectives: To understand the India in terms of various physical divisions, their important characteristics and intra-regional and inter regional linkages and to analyze natural and human resource endowments and their conservation and management. The study also synthesis the students with development issues and policies and programmes design for regional development.

Course Structure : One Theory and One Practical

Teaching Theory : 04 hours per week

Practical : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA). One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Units	Topic	Teaching Hours
I	India : Location and Extent, Physiography, Drainage, Climate, Soil and Natural Vegetation and its importance	12
II	Water Resources and Irrigation: Multipurpose River Projects mainly- Bhakra-Nangal, DVC, Nagarjunasagar, Hirakud projects. Agriculture: Significance and types of Agriculture, Floriculture, Cultivation, distribution and production of Rice, Wheat, Sugarcane, Cotton, Tea and Coffee in India.	12
III	Mineral Resources: Distribution and Production of Iron ore, Manganese, Coal, Petroleum & Natural Gas. Industries: Industrial regions of India. Distribution and Production of Iron and Steel, Cotton textile, Sugar, Paper, Automobile and IT industry in India.	12
IV	Transport: Road and Railway, Major Ports: Mumbai, Kolkata, Chennai and Mangalore.	08
V	Population: Growth and Distribution of Population, Density of Population and Causes and Consequences of Growth and Distribution. Urbanization in India. Location of the following important elements on the given map of India- hills, rivers, soils, river projects, industries, roads, towns, tourist and urban centers, parks and wild centuries. (Note: Staff in charge should supply the outline map of India and train the students and it has to be treated as compulsory question in semester end examination.)	08
Total		52 hours

Reference:

1. Ranjit Thirtha- Geography of India
2. Sharma & Coutinho- Economic and Commercial Geography of India
3. Tiwari.P.S- Geography of India
4. C.B.Mamoria - Economic and Commercial Geography of India
5. Ranganath - Regional and Economic Geography of India (Kannada)
6. Mallappa. P- Regional Geography of India (Kannada)

B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
VIth SEMESTER - THEORY PAPER- (Select any one)
OPT. PAPER 6.2- a : SETTLEMENT GEOGRAPHY

Objectives: The aim is to acquaint the student with spatial and structural characteristics of Human settlement under varied environmental conditions, to enable them to diagnose spatial issues related to urban and rural settlements.

Course structure : One Theory and One Practical

Teaching Theory : 04 hours per week

Practical : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA) One Practical of 40 Marks and 10 Marks (7 marks for Journal/Practical records as internal assessment (IA) and 3 marks for attendance.

Units	Topic	Teaching Hours
I	Definition, Meaning, Nature and Scope of Settlement Geography, Rural as opposed to Urban.	08
II	Settlements: types of settlements, Rural Settlement as a service and market center. Central Place theory, Integrated Rural Development Planning (IRDP). Economic characteristics of cities and its functions.	12
III	Rural migration and its impact on agriculture and mining. Interaction between Rural-Urban settlements. Urbanization: Meaning, causes and consequences. Trends of Urbanization in India.	12
IV	Theories of Urban landuse: Concentric zone theory and Sector theory, Multi-nucli theory. Central Business District (CBD) and its Characteristics. Urban amenities and facilities.	12
V	Urban Fringe, urban continuum, urban sprawl, hinterland, umland and their characteristics. Slums: Meaning, formation of slums and its causes and consequences.	08
Total		52 hours

References:

1. R.B.Mandal- Introduction to Rural settlements.
2. H.D.Clout- Rural Geography : An Introductory survey.
3. H.Carter- The study of Urban geography
4. Jahonson- Intruduction to Urban Geography
5. Dickinson R.E. -City and Region
6. Mandal R.B. - Urban geography.
7. Settlement Geography : Siddarth
8. Human Geography: Hussain. M.
9. R.Y.Singh- Geography of Settlement
10. Mallappa. -Human Geography(Kannada)
11. Ranganath- Fundamentals of Human Geography (Kannada)
- 12.S.S.Nanjannavar- settlement geography

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
VIth SEMESTER – THEORY PAPER- (Select any one)
OPT. PAPER 6.2 - b : REGIONAL PLANNING AND DEVELOPMENT

Objectives: To understand and evaluate the concept of region in geography and its role and relevance in regional planning, to identify the issues relating to the development of the region through the process of spatial organization of various attributes and their interrelationships. The course also aims to identify the causes of regional disparities and to suggest the measures for the development of the region.

Course structure : One Theory and One Practical

Teaching Theory : 04 hours per week

Practical : 03 hours per week.

Examination : One Theory paper of 80 Marks and 20 Marks for internal assessment (IA).

One Practical of 40 Marks and 10 Marks for internal assessment (IA) (out of 10 IA marks 7 marks for practical record and journal and 3 marks for attendance).

Units	Topic	Teaching Hours
I	Concept of Region- types and hierarchy of regions - concept of planning- types of planning - approaches to Regional planning. Indicators of development.	10
II	Basic issues in Regional planning-Gross root level and systems of regional planning, Regional interactions and socio-economic and technological development.	12
III	Development strategy of planning: Need of planning for natural, social and economically background regions. Tribal area development planning.	10
IV	Regional Planning Processes – sectoral, temporal, spatial and multi-level planning. Centralized and Decentralized planning; Block and District level planning and Integrated Area Development Planning (IADP).	12
V	Role of urban centers in regional development. City regions and their problems.Regional Disparities. Planning Regions in Karnataka; Policies and Programmes for backward area development.	16
	Total	60 hours

References:

1. Ashish Sarakar(2011) : Regional planning in India.
2. Bhat L. S. : Aspects of Regional Planning in India.
3. Chandana. R. C. (2003) : Regional Planning A Comprehensive Text
4. Chaudhuri. J. R.(2009) : An Introduction to Development and Regional Planning with spatial reference to India
5. Dickinson R.E.(1964) : City and Region ; A Geographical Interpretation. Routledge and Keagan Paul.
6. Galasson John (1974) : An Introduction to Regional Planning
7. Misra R.P.Sundaram K.V &V.L.S.Prakasa Rao(1974) : Regional Development Planning In India.
8. Misra R.P. (1992) : Regional planning,Concept Publishing company. New Delhi.
9. M. Chand & V. Puri(1983) : Regional Planning in India, Allied publishers Ltd., New Delhi
10. Sundaram, K. V. (1985) : Geography and Planning”, Concept Pub. Company, New Delhi

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PRACTICAL

Units	Topic	Teaching Hours
I	Meaning: Elements of Weather and Climate, Brief review of Indian Meteorological Department (IMD) and its functions.	05
II	Meteorological Instruments: Drawing of meteorological instruments- Thermometer, Barometer, hygrometer, Anemometer, Wind-vane, Rain gauge station & its functions and significance.	05
III	IMD Weather Maps: Drawing of Weather symbols, Season and seasonal variations, Isobars, Isobaric Pattern, Depression, Cyclone, Calm Conditions, Forecasting etc. and its Characteristics (Illustration is necessary)	10
IV	Season-wise detail Interpretation of IMD Weather Maps: a. Winter Season (at least two map from each season) b. Summer Season (at least two map from each season) c. Monsoon Season (at least two map from each season) d. Post-Monsoon Season (at least two map from each season)	15
	Total	35 hrs.

Reference:

1. R. L. Singh: Elements of Practical Geography.
2. Gopal Singh: Practical Geography.
3. Dr. Ranganat: Practical Geography (Kannada Version).
4. Singh and Kanoj: Practical Geography.
5. R. P. Misra and Ramesh: Fundamental of Cartography.
6. M. F. Karennavar & S. S. Nanjannavar: Practical Geography.
7. M .F. Karennavar & S. S. Nanjannavar: Practical Geography (Kannada Version).
8. Pijushkanti Saha & Partha Basu: Advanced Practical Geography

B. A. /B. Sc. SYLLABUS IN GEOGRAPHY

VIth SEMESTER – PRACTICAL- II

PAPER – 6.4 : FIELD WORK / PROJECT WORK / DISSERTATION

PRACTICAL

Units	Topic	Teaching Hours
I	Preliminary Discussion and selection of the topic. Preparation of Questionnaire.	05
II	Data collection, Tabulation, and	10
III	Methodology.	05
IV	Final report writing.	15
V	Viva-Voce	
	Total	35 hours

Note: In the VI semester, there will be compulsory practical paper i.e. *FieldWork/ Project/ Dissertation* and concerned teacher has to select study Area Village/Block/Taluka/City level) for the preparation of final dissertation report in consultation and approval with the concerned HOD/ Principal of the institution.

The field work/project/ dissertation carries 40 marks, of which 15 marks are allotted to preparation of the dissertation and 25 marks are kept for viva-voce of the candidates.

Method of Examining the Candidate in the Geography Practical Examination

Allotment of Marks

For example

Candi date	Viva -Voce Marks						Total (out of 40 marks)
	Selection of the topic (Maximum 02 Marks)	Aims and Objectives (Maximum 03 Marks)	Data Collection (Maximum 05 Marks)	Method used in Study (Maximum 05 Marks)	Information and Data Presentation (Maximum 05 Marks)	Preparation & Submission of Report (Maximum 15 Marks)	
X	02	02	03	00	04	10	22
Y	01	01	02	01	02	06	13 fail
Z	02	03	03	04	03	12	27

Note: Examiner has to fix marks for the dissertation report max. 15 marks at the time of examination on the bases of quality of the work and 25 marks are allotted to viva-voce of the candidates as above.

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B. A. /B. Sc. SYLLABUS IN GEOGRAPHY
VIth SEMESTER – SKILL ENHANCEMENT COURSE (SEC)
SEC PAPER – 6.5 : GEOGRAPHY OF INDIA

Units	Topic	Teaching Hours
I	India : Location and Extent, Physiography, Drainage, Climate, Soil and Natural Vegetation and its characteristics and classification	15
II	Agriculture: Significance and types of Agriculture. Major agriculture crops : food crops, pulses, commercial crops, plantation crops, horticultural crops and their method of cultivation with reference to rice, wheat, sugarcane, cotton, tea, coffee and coconut.	08
III	Classification of mineral and power resources, distribution of Iron ore, Coal, Petroleum, Hydel Power, Thermal power and solar energy and their uses. Energy crisis in India.	05
IV	Industries: Industrial regions of India. Distribution of Iron and Steel, Cotton textile, Sugar Industry, automobile industry in India.	06
V	Population: Growth and Distribution of Population, Density of Population and Causes and Consequences	06
Total		40 hours

Reference:

1. Ranjit Thirtha- Geography of India
2. Sharma & Coutinho- Economic and Commercial Geography of India
3. Tiwari.P.S- Geography of India
4. C.B.Mamoria - Economic and Commercial Geography of India
5. Ranganath - Regional and Economic Geography of India (Kannada)
6. Mallappa. P- Regional Geography of India (Kannada)
- 7.S.S.Nanjannavar- Geography of India.

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