B. A. Semester – I
Discipline Specific Course (DSC) under CBCS
GY- T A: PHYSICAL GEOGRAPHY

Credits: I. Theory : 04 Theory class 4hrs /wk. Total theory: 60 Lectures
80 marks for Sem end Examination (3 hrs) & 20 marks IA
II. Practical : 02 Practical: 4 hrs./wk. Total Practical: 52 hrs.
40 marks for Sem end Examination (3 hrs) & 10 marks IA
Total Credits : 06 Total Theory marks 100 and Practical marks 50

Unit	Title	Sub-unit	Hrs
1	Introduction to Physical Geography	Meaning, Field and Scope	04
II	Origin of the earth	Nebular and Tidal Theory	04
III	Lithosphere	Interior of the earth.	20
		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.	20
		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 Sea Plain and Troughs.	12
		Tides and ocean currents: Indian, Pacific and Atlantic	
		Salinity and temperature of Oceans: Atlantic, Pacific and Indian.	

B.A. Semester – I
Discipline Specific Course (DSC) under CBCS
GY-Pr A: SCALES AND MAPS

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).	

References:

1. Gopal Singh: Map work and Practical Geography, 3rd ed. Vikas Publishing Houde, New Delhi.
2. Gupta K and Tyagi V.C : Working with Maps, Survey of India, Dept. of Sci. and Technology, Govt. of India, Dehra Dun 1992.
3. John and Keats: Cartographic design and production, 2nd ed. 1989, John wiley, New York.
4. Mishra R.P: Fundamentals of Cartography,1969,Prasaranga, University of Mysore.
5. Monkhouse F.J and : Maps and Diagrams, Wilkinson H.RMathuen and Co. Ltd. London, 1952
6. Phyllis Dink: Map work, 10th ed. Atma Ram and Sons, Delhi 1969.
7. Raisz E: Genera;l Geography, 1948, Tata, Mc-Grow-Hill New York.
8. Ranganath : An introduction to practical Geography, Vidyanidhi Publication, Gadag.
9. Singh R.L: Elements of Practical Geography, Kalyani Publishers, New Delhi.
10. ಡಾ. ರಂಗನಾಥ: ಪ್ರಾಯೋಗಿಕ ಭೂಗೋಳಶಾಸ್ತ್ರ.
11. ಡಾ. ಎಸ್.ಎಸ್.ನಂಜಣ್ಣನವರ & ಡಾ. ಎಂ. ಎಫ್. ಕರೆಣ್ಣವರ: ಪ್ರಾಯೋಗಿಕ ಭೂಗೋಳಶಾಸ್ತ್ರ.

B.Sc. Semester – II
Discipline Specific Course (DSC) under CBCS
GY-T B: Human Geography

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:

1. Dickens and Pitts: 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) Vidyanidhi , Gadag, 2002.
8. Rubenstein J.M: An Introduction to Human Geography, MacMillon Publishing
9. ಪಿ. ಮಲ್ಲಪ್ಪ: ಮಾನವ ಭೂಗೋಳಶಾಸ್ತ್ರ
10. ಡಾ. ರಂಗನಾಥ: ಮಾನವ ಭೂಗೋಳಶಾಸ್ತ್ರ
11. ಪ್ರೊ. ಎಸ್.ಎಸ್.ನಂಜಣ್ಣನವರು: ಮಾನವ ಭೂಗೋಳಶಾಸ್ತ್ರ
12. ಡಾ. ಎಂ.ಬಿ.ಗೌಡರ: ಮಾನವ ಭೂಗೋಳಶಾಸ್ತ್ರ

B.Sc. Semester – II
Discipline Specific Course (DSC) under CBCS
GY-Pr B: Interpretations of Indian Daily Weather Reports

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	
		Weather Signs and Symbols	04
		Interpretation of Indian Daily Weather Report – 4 exercises (One exercise from each season).	12

References:

1. Gopal Singh: Map work and Practical Geography, 3rd ed. Vikas Publishing Houde, New Delhi.
2. Gupta K and Tyagi V.C : Working with Maps, Survey of India, Dept. of Sci. and Technology, Govt. of India, Dehra Dun 1992.
3. Jacki Smith B.A (ed): Dictionary of Geography, Cosmo Publications, New Delhi 1983.
4. John and Keats: Cartographic design and production, 2nd ed. 1989, John wiley.
5. Mishra R.P: Fundamentals of Cartography,1969,Prasaranga, University of Mysore.
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7. Phyllis Dink: Map work, 10th ed. Atma Ram and Sons, Delhi 1969.
8. Raisz E: Genera;l Geography, 1948, Tata, Mc-Grow-Hill New York.
9. Ranganath : An introduction to practical Geography, Vidyanidhi Publication, Gadag.
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B.A. Semester – III
Discipline Specific Course (DSC) under CBCS
GY-T C: REGIONAL GEOGRAPHY OF KARNATAKA

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 Gazetter, 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. ಪ್ರೊ. ಡಿ. ಎ. ಕೊಲ್ಲಾಪುರ & ಪ್ರೊ. ಎಸ್.ಎಸ್.ನಂಜಣ್ಣನವರ: Regional Geography of Karnataka
7. S.S.Nanjannavar & M.N.Meeranaik: Geography of Karnataka
8. ಡಾ. ಎಂ.ಬಿ.ಗೌಡರ: Regional Geography of Karnataka

B.A. Semester – III
Discipline Specific Course (DSC) under CBCS
GY-Pr C: Interpretation of Topographical Maps

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:

1. Gopal Singh: Map work and Practical Geography, 3rd ed. Vikas Publishing Houde, New Delhi.
2. Gupta K and Tyagi V.C : Working with Maps, Survey of India, Dept. of Sci. and Technology, Govt. of India, Dehra Dun 1992.
3. Jacki Smith B.A (ed): Dictionary of Geography, Cosmo Publications, New Delhi
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10. Singh R.L: Elements of Practical Geography, Kalyani Publishers, New Delhi.
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12. ಡಾ. ಎಸ್.ಎಸ್.ಸಂಜ್ಞಾವರ & ಡಾ. ಎಂ. ಎಫ್. ಕರ್ನಾವರ: ಪ್ರಾಯೋಗಿಕ ಭೂಗೋಳಶಾಸ್ತ್ರ.

B.A. Semester – IV
Discipline Specific Course (DSC) under CBCS
GY-T D: Environmental Geography

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. ಡಾ. ಎಲ್.ಜಿ.ನಾಯಕ: ಪರಿಸರ ಭೂಗೋಳಶಾಸ್ತ್ರ
11. ಡಾ. ಎಂ.ಬಿ.ಗೌಡರ: ಪರಿಸರ ಭೂಗೋಳಶಾಸ್ತ್ರ
12 ಪ್ರೊ. ಡಿ. ಎ. ಕೊಲ್ಲಾಪುರೆ & ಪ್ರೊ. ಎಸ್.ಎಸ್.ನಂಜಣ್ಣನವರ:ಪರಿಸರ ಭೂಗೋಳಶಾಸ್ತ್ರ

B.A. Semester – V
Discipline Specific Elective (DSE) under CBCS
GY-T E-I: Regional Geography of India

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 : ***Food crops*** - Rice and Wheat. ***Commercial Crops*** - Sugar Cane and Cotton. ***Plantation Crops*** - 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

References:

1. Gopal Singh: A Geography of India, Atmaram & Sons New Delhi.
2. ICAR: Croping pattern in India, 1974.
3. Mathus S.M: Physical Geography of India, NBT, 1991.
4. Ranganath : ಭಾರತದ ಆರ್ಥಿಕ ಮತ್ತು ವಾಣಿಜ್ಯ ಭೂಗೋಳಶಾಸ್ತ್ರ
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. ಡಾ. ಆಯ್. ಎ. ಮುಲ್ಲಾ: ಭಾರತದ ಭೂಗೋಳಶಾಸ್ತ್ರ & ಡಾ. ಎಸ್.ಎಸ್.ನಂಜುಣ್ಣನವರ
9. ಡಾ. ಎಂ.ಬಿ.ಗೌಡರ: ಭಾರತದ ಆರ್ಥಿಕ ಮತ್ತು ವಾಣಿಜ್ಯ ಭೂಗೋಳಶಾಸ್ತ್ರ.
10. ಪಿ. ಮಲ್ಲಪ್ಪ: ಭಾರತದ ಆರ್ಥಿಕ ಮತ್ತು ವಾಣಿಜ್ಯ ಭೂಗೋಳಶಾಸ್ತ್ರ

B.A. Semester – V
Discipline Specific Elective (DSE) under CBCS
GY-T E-II: Geography of Settlements

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 Upadhya 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 Christller	
		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.	

Reference:

1. Husain M: Human Geography, Rawat Pub. Jaipur, 2003.
2. Nellson, Gabler & Vining: Human Geography, People Culture and Landscapes, 1995.
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B.A. Semester – V
Discipline Specific Elective (DSE) under CBCS
GY-Pr E: Basic Statistics

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 – VI
Discipline Specific Elective (DSE) under CBCS
GY-T F-I: Economic Geography of the World.

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

References:

1. Alexander and Hartshorne: Economic Geography, Prentice Hall, 2nd Edition, 2000.
2. Guha and Chattoraj: A New Approach to Economic Geography.
3. Khanna and Gupts: World Resources and Trade, S. Chand & Co. New Delhi.
4. Mallappa: Economic Geography, (Kan Ver.) Chetana Book House, Mysore, 2001
5. ಡಾ. ರಂಗನಾಥ: ಪ್ರಪಂಚದ ಆರ್ಥಿಕ & ವಾಣಿಜ್ಯ ಭೂಗೋಳಶಾಸ್ತ್ರ
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B.Sc. Semester – VI
Discipline Specific Elective (DSE) under CBCS
GY-Pr. F: Field Based Project Report

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

The field survey based project report is compulsory, the students have to identify the problem and conduct a field survey under the supervision of a teacher allotted four hours in a week per the batch. The duration of the field work should not exceed 10 days. The prepared report shall be submitted to the Department before the commencement of practical examination.

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.
6. Special Issues on Doing Field work, The Geographical Review 91:1.2 ,2001

B.A. Semester – VI
Skill Enhancement Course (SEC-II) under CBCS
GY-T F-IV: Basics of Remote Sensing

Unit	Title	Sub-unit	Hrs
I	**Remote Sensing and Arial Photography**	Definition, Development, Platforms Principles, and Types of Remote Sensing Arial Photography	12
II	**Satellite Remote Sensing**	Principles, EMR Interaction with atmosphere and Earth surface; Satellites (Land sat and IRS) and Sensors	10
III	**Interpretation and Application of Remote Sensing**	Land-use /Land Cover	08

Reference:

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. ಪಿ. ಮಲ್ಲಪ್ಪ & ಡಾ. ಆರ್ ಸೆಲ್ವರಾಜು: ಭೌಗೋಳಿಕ ಮಾಹಿತಿ ವ್ಯವಸ್ಥೆಯ ಮೂಲ ತತ್ವಗಳು,2019.

B.A. Semester – VI
Discipline Specific Elective (DSE) under CBCS
GY-T F-II: Population Geography

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.	
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