




**MANGALORE UNIVERSITY
MANGALAGANGOTTHRI**

**CHOICE BASED CREDIT SYSTEM
OPTIONAL SUBJECT GEOGRAPHY
FOR
B.A. /B.Sc. PROGRAMME**


MANGALORE UNIVERSITY
SCHEME & SYLLABUS
CHOICE BASED CREDIT SYSTEM
OPTIONAL SUBJECT GEOGRAPHY
FOR B.A. /B.Sc. PROGRAMME

	Code	Particulars	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
					IA	Exam	Total	
I SEMESTER								
Group I Core Courses	BASGEC 131/ BSCGEC 131	Physical Geography	4	3	20	80	100	2
	BASGEP 132/ BSCGEP 132	Maps & Scale, Representation of Relief Features & Meteorological Instruments	3	3	10	40	50	1
Group II Elective Courses	BASGECE 133/ BSCGECE 133	Introduction to Physical Geography	2	2	10	40	50	1
II SEMESTER								
Group I Core Courses	BASGEC 181/ BSCGEC 181	Human Geography	4	3	20	80	100	2
	BASGEP 182/ BSCGEP 182	Map Projection - Part-I	3	3	10	40	50	1
Group II Elective Courses	BASGECE 183/ BSCGECE 183	Regional Geography of the World	2	2	10	40	50	1

III SEMESTER								
Group I Core Courses	BASGEC 231/ BSCGEC 231	Regional Geography of the World	4	3	20	80	100	2
	BASGEP 232/ BSCGEP 232	Map Projection - Part-II	3	3	10	40	50	1
Group II Elective Courses	BASGECE 233/ BSCGECE 233	Introduction to Human Geography	2	2	10	40	50	1
IV SEMESTER								
Group I Core Courses	BASGEC 281/ BSCGEC 281	Geography of India	4	3	20	80	100	2
	BASGEP 282/ BSCGEP 282	Cartograms & Distribution Maps	3	3	10	40	50	1
Group II Elective Courses	BASGEOE 283/ BSCGEOE 283	Regional Geography of India	2	2	10	40	50	1

V SEMESTER								
Discipline Specific Elective Courses 2 Course for V and VI Semester (Choose any One)								
Group I	BASGEC 331/ BSCGEC 331	Economic Geography of the World	4	3	20	80	100	2
	BASGEC 332/ BSCGEC 332	Settlements Geography OR	4	3	20	80	100	2
	BASGEC 333/ BSCGEC 333	Tourism Geography						
	BASGEP 334/ BSCGEP 334	Basic Statistics	3	3	10	40	50	1
	BASGEP 335/ BSCGEP 335	Interpretation of Topographical Maps & Indian Daily Weather Report	3	3	10	40	50	1
VI SEMESTER								
Group I	BASGEC 381/ BSCGEC 381	Environmental Geography	4	3	20	80	100	2
	BASGEC 382/ BSCGEC 382	Regional Geography of Karnataka OR	4	3	20	80	100	2
	BASGEC 383/ BSCGEC 383	Population & Political Geography						
	BASGEP 384/ BSCGEP 384	Fundamentals of GIS, GPS and Remote Sensing	3	3	10	40	50	1
	BASGEP 385/ BSCGEP 385	Field Techniques & Survey Based Project Report	3	3	10	40	50	1

I Semester

Core Course – I

BASGEC 131/BSCGEC 131: Physical Geography

48 hrs - 4 hrs/week

- UNIT I: Physical Geography:** -10-
- a) Meaning, Definition, Field, Nature(Multidisciplinary) and Scope, Components of Earth System – Lithosphere, Atmosphere, Hydrosphere and Biosphere
 - b) Theories regarding origin of the Earth: Nebular and Tidal theories
- UNIT II: Lithosphere:** -10-
- a) Structure and Composition of the earth
 - b) Distribution of land and water bodies : Wegner’s Theory of Continental Drift and plate Tectonic
- UNIT III: Geomorphic agents and processes of Denudation** -10-
- a) i) River ii) Glacier iii) Underground water iv) Wind
- UNIT IV: Atmosphere** -10-
- a) Meaning, composition and structure of atmosphere.
 - b) Distribution of Temperature, Pressure and Wind system – Insulation, Factors affecting, Atmospheric temperature.
 - c) Atmospheric Pressure – Factors affecting on pressure, Vertical and Horizontal distribution, Pressure belts of the world.
 - d) Winds system – Factors affecting, types – Planetary, seasonal, local and Variable winds – with special reference to Tropical cyclones.
- UNIT V: Hydrosphere** -08-
- a) Meaning, types and importance of Relief features of ocean floor.
 - b) Tides and Ocean currents – Indian and Pacific.

References

- 1 Conserva H. T., : Illustrated Dictionary of Physical Geography, Author House, USA. 2004
- 2 Gabler R. E., Petersen J. : Essentials of Physical Geography (8th Edition), Thompson, Brooks/Cole, USA. 2007
- 3 F. and Trapasso, L. M.,
- 3 Garrett N., : Advanced Geography, Oxford University Press2000
- 4 Goudie, A., : The Nature of the Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford1984
- 5 Hamblin, W. K., : Earth’s Dynamic System, Prentice Hall, N.J. 1995
- 6 Husain M., : Fundamentals of Physical Geography, Rawat Publications, Jaipur. 2002
- 7 Monkhouse, F. J. : Principles of Physical Geography, Platinum Publishers, Kolkata.2009
- 8 Strahler A. N. and : Modern Physical Geography, John Wiley & Strahler A. H., Sons, New York. 2008
- 9 B.N Tikka : Physical Geography 2010
- 10 Savindra Singh : Physical Geography. 2011

I Semester Practical Course– I

BASGEP132/ BSCGEP132: Maps & Scale, Representation of Relief Features & Meteorological Instruments

36 hrs - 3 hrs/week

UNIT I: Maps:

-12-

- a) Definition, types and importance of maps
- b) Characteristics features of maps.
- c) Scales- definition and types,
- d) Conversion of statements into RF and RF in to statement.
- e) Construction of graphical scales – linear and diagonal.
- f) Enlargement and reduction of maps: square and triangular method.
- g) Latitudes and longitudes- Longitude and time – local, standard and Greenwich- time zones- Calculation of time- International Date Line.

UNIT II: Relief features

-12-

- a) Introduction, methods of relief representation- pictorial –Mathematical and composite methods.
- b) Contours – characteristics – contour diagrams representing following relief features- Uniform, Undulating, Concave, Convex slopes, Conical hill, saddle, hill, plateau, ridges, gorge, ‘V’ shaped valley , U shaped valley, rapids and water falls.

UNIT III: Meteorological Instruments

-12-

- a) Functions and uses- Centigrade & Fahrenheit Thermometer,
- b) Maximum and Minimum thermometer,
- c) Hygrometer, Aneroid Barometer,
- d) Wind vane,
- e) Cup Anemometer,
- f) Rain gauge.

References:

- 1 Gopal Singh : Map Work and Practical Geography, III ed, Vikas Publishing House, New Delhi
- 2 Gupta K.K and Tyagi V.C : Working with maps, Survey of India, Department of Science and Technology, Govt. of India, Dehra Dun 1992.
- 3 Jackie Smith B.A.(ed) : Dictionary of Geography, Cosmo Publications, New Delhi , 1983
- 4 John and Keats: : Cartographic design and production, II edition 1989, John Wiley, New York.
- 5 Mishra R.P : : Fundamentals of Cartography, 1969, Prasaranga, University of Mysore, Mysore.
- 6 Monkhouse F.J and : Maps and Diagrams, Wilkinson H.R: Mathuen and Co, Ltd., London, 1952.
- 7 Phyllis Dink : Map work, x (ed) Atma Ram & Sons, Delhi,1967
- 8 Raisz E. : General Cartography, 1948.Tata-MC-Graw Hill, New York.
- 9 Ranganath : An Introduction to Practical Geography, Part I Kannada version, Vidhyanidhi Publications, Gadag-582101, Karnataka.
- 10 Singh. R.L. : Elements of Practical Geography, Kalyani Publishers, New Delhi, 1979.

Elective - I
BASGECE 133/BSCGECE 133: Introduction to Physical Geography

24 hrs - 2 hrs/week

UNIT I: Geography – Divisions – Physical Geography - field and scope. Solar system – movements of the earth and effects. -04-

UNIT II: Rocks and their types. Weathering and denudation – elements and factors -08-

UNIT III: Atmospheric weather and climate: temperature and pressure, Winds and their types. -08-

UNIT IV: Hydrosphere – ocean currents – temperature and salinity, Islands -04-

References:

- 1 Dasagupta and Kapoor : Principles of Physical Geography, Chand and Co. New Delhi.2001.
- 2 Enayat Ahmed : Physical Geography, Kalayani Publishers, Ludhiana 1982.
- 3 Mallappa. P. : Physical Geography, (Kannada Version)-Chethana Book House, Mysore 2000.
- 4 Ranganath: : Principles of Physical Geography, (Kannada Version), Vidhyanidi Gadag, 2003.
- 5 Savindra Singh : Physical Geography, Pravag, Pustak Bhavan, Allahabad-199

II Semester
Core Course– II
BASGEC 181/BSCGEC 181: Human Geography

48 hrs - 4 hrs/week

- UNIT I:** Definition – field and scope of human Geography. Branches and Importance of Human Geography. Development of human geography- contributions of Germans, French and Americans. -10-
- UNITII:** Conceptual approaches to the study of man – Environment Relationship- Environmental determinism, Possibilism, Probabalism, Revival of Environmental determinism. -10-
- UNIT III:** Global cultural diversities- Culture- diffusion of culture .Hager strand theory of diffusion -Race Religion, Language, Political systems, Global patterns of tribes. -10-
- UNIT IV:** Cultural realms of the world – Study of major realms with reference to ecology, economy and culture. -10-
- UNIT V:** Population Composition- Age Structure, Sex Ratio, Literacy rate -08-

References:

- 1 Dickens and Pitts : Introduction to Human Geography, 1963.
- 2 Dickens and Pitts : Introduction to Human Geography, 1963
- 3 Harm d. Blij : Human and Economic Geography, Mac Millan, New York, 1992
- 4 Hussain M : Human Geography, Rawat Publications Jaipur, 2003.
- 5 Nelson, Gabler & Vining : Human Geography, People, Cultures and Landscapes,1995
- 6 Peter Daniels, Michael Bradshaw, Denis Shaw, James Sidaway : Human Geography, Issues for the 21stCentury, Pearson 2003.
- 7 Norris and Haring : Political Geography, Charles. E. Merill Publishing Company
- 8 Ranganath : Political Geography, Charles. E. Merill Publishing Company
- 9 Ranganath : Principles of Human Geography (Kan. Ver) Vidyanidhi, Gadag, 2002.
- 10 Rubenstein J.M. : An Introduction to Human Geography, McMillan Publishing Company 1992.

II SEMESTER
Practical Course-II
BASGEP 182/BSCGEP 182: Map Projections- I

36 hrs - 3 hrs/week

UNIT I: Map Projection: -04-

- a) Definition, Classification and Importance.

UNIT II: Cylindrical Projections. -12-

- a) Simple Cylindrical
b) Cylindrical Equal Area.

UNIT III: Conical Projections: -20-

- a) Simple Conical Projection.
b) Conical Projection with Two Standard Parallels.
c) Bonne's Projection.
d) Poly Conic Projection.

Note: The above map projections should be constructed with exercises, properties and uses.

References:

- 1 Salar Masood. M. : Map Projections, Rao and Raghavam Co., Mysore. 1992.
- 2 Ranganath & Mallappa : Map Projections (Kan.version), Chetana, Book House, Mysore. 2008.
- 3 Erwin Raisz : General Cartography; McGraw- Hill book company Inc. 2010.
- 4 Singh R. L. : Elements of Practical Geography, Student's Friends, Allahabad. 2011
- 5 George P Kellaway : Methuen & Co. Ltd., London. 2015
- 6 Gopal Singh : Map Work & Practical Geography, Surjeet Book Depot, New Delhi. 2010

Elective II
BASGECE 183/BSCGECE 183: Regional Geography of the World

24 hrs - 2 hrs/week

UNIT I: Political division of the world- Continents- Oceans- Seas –Rivers -06-

UNIT II: Natural regions of the world decimal classification, major regions with reference to location, extent places, climate, vegetation, animal life and human activities with reference to: Equatorial, Monsoon, Mediterranean, grassland, hot and cold deserts, tundra region. -06-

UNIT III: Economic activities -Agricultural types - Mines- iron-ore, Power Resources- coal, and petroleum, Industry- Locations factors of industrial regions. -06-

UNIT IV: Population patterns of distribution – -06-

References:

- 1 Heintzelman and High Smith : World Regional Geography. Prentice Hall, New Delhi 1965.
- 2 Husain .M : World Geography, Rawat, Jaipur, 2004.
- 3 Tikkha, Bali, Sekhon : World Regional Geography, New Academic Publishing Company, Jalandhar, 2002.
- 4 Ranganath : Regional Geography of world, Vidyanidhi, Gadag, 2009.
- 5 Hartshorn.T.A. : Economic Geography, PHI, NewDelhi-2009,

III Semester
Core Course – III
BASGEC 231/BSCGEC 231: Regional Geography of the World

48 hrs - 4 hrs/week

UNIT I: Distribution of major land forms -Mountain, plains and plateaux-Rivers of the world -Natural vegetation, types and distribution- soils types and distribution. -10-

UNIT II: Natural regions of the World- Classification- A detail study of equatorial, monsoon, deserts, grasslands and tundra regions. -10-

UNIT III: Mineral and power resources -Production and distribution and trade of Iron ore, manganese, gold, coal, petroleum, Natural gas. -10-

UNIT IV: Transportation- Roads, Railways and Ocean routes. Complementary and computation among nodes of transport. Hoover's transport cost theory. -10-

UNIT V: Population-Growth of population, sex ratio, age composition of population and factors affecting the distribution of population. -08-

References:

- 1 Heintzelman and High : World Regional Geography. Prentice Hall, New Delhi 1965.
- 2 Husain M. : World Geography, Rawat, Jaipur, 2004.
- 3 Tikka, Bali, Sekhon : World Regional Geography, New Academic Publishing Company, Jalandhar, 2002.
- 4 Mallappa P. : Regional Geography of the world, Chetana Publication, Mysore 2015.
- 5 Ranganath : Regional Geography of the World, Vidyanidhi, Gadag, 2009.

III SEMESTER
Practical Course– III
BASGEP 232/BSCGEP 232: Map Projections – II

36 hrs - 3 hrs/week

UNIT I:	Map projections – Definition, Classification and importance.	-10-
	a) Choice of map projections and uses.	
UNIT II:	Zenithal Projections –Polar case	-10-
	a) Zenithal equidistant equal area,	
	b) Zenithal Gnomonic	
	c) Zenithal Stereographic	
	d) Zenithal Orthographic	
UNIT III:	Conventional Projections–Sinusoidal, Mollweid’s Projection.	-06-
UNIT IV:	Surveying- Meaning-importance – and types of surveying	-12-
	a) Plane table Surveying – Radiation and intersection.	
	b) Chain surveying – types of chains- triangulation	

Note: The above map projections should be constructed with exercises, properties and uses.

References:

- 1 Salar Massood. M. : Map Projections, Rao and Raghavam Co., Mysore. 1992.
- 2 Ranganath & Mallappa : Map Projections (Kan. version), Chetana, Book House, Mysore 2008.
- 3 Erwin Raisz : General Cartography; McGraw- Hill book company Inc.2010.
- 4 Singh R. L. : Elements of Practical Geography, Student’s Friends, Allahabad. 2011.
- 5 George P Kellaway : Methuen & Co., Ltd., London. 2015.
- 6 Gopal Singh : Map Work & Practical Geography, Surjeet Book Depot, New Delhi. 2010.

Elective III

BASGECE 233/BSCGECE 233: Introduction to Human Geography

24 hrs - 2 hrs/week

- UNIT I:** Meaning and Scope of Human Geography-Man – Environment Relationship, Environmental determinism and possibilism. -06-
- UNIT II:** Culture and cultural diversion –Race, Religion and Language. -06-
- UNIT III:** Major primitive tribal of the world – Eskimos, Khirghis, Todas, Bushman. -06-
- UNIT IV:** Population – Growth – Demographic Cycle – Migrations Causes and Effects.-06-

References:

- 1 Dickens and Pitts : Introduction to Human Geography, 1963.
- 2 Harm D. Blij : Human and Economic Geography, Mac Millan, New York, 1992.
- 3 Hussain M : Human Geography, Rawat Publications Jaipur, 2003.
- 4 Nelson Gabler & Vining : Human Geography, People, Cultures and Landscapes, 1995.
- 5 Peter Daniels, Michael Bradshaw, Denis Shaw and James Sidaway: : Human Geography, Issues for the 21st Century , Pearson 2003
- 6 Norris and Haring : Political Geography, Charles. E. Merrill Publishing Company.
- 7 Ranganath : Principles of Human Geography (Kan. Ver.) Vidyanidhi, Gadag, 2002.
- 8 Rubenstein J.M : An Introduction to Human Geography, Macmillan Publishing Company 1992.

IV Semester

Core Course – IV

BASGEC 281/BSCGEC 281: Regional Geography of India

48 hrs - 4 hrs/week

- UNIT I: Location, size and extent-** political divisions, Relief features- Drainage system- climate, seasons, Rainfall- monsoons and its effects on the economy. Vegetation - major types and their distribution- afforestation programmes. Soils- major types, their characteristics-soil erosion and conservation. -10-
- UNIT II: Irrigation and Agriculture:** Irrigation- types, multipurpose projects – DVC, Bhakra Nangal and Alamatti. **Agricultural crops-** production and distribution of Rice, Wheat, Cotton, Sugar Cane, Coffee and Tea. -10-
- UNIT III: Mineral and Power Resources-** Significance, production and distribution of Iron-ore, Mica, Bauxite, Coal, Petroleum, Electricity- Hydro. Major industries- Iron and Steel, Cotton Textile, Sugar, Major Industrial Regions of India.-10-
- UNIT IV: Transportation Network-** roads, railways, water ways, airways. Trade – Inter and International. -10-
- UNIT V: Population –** Growth, Distribution and Density, Urbanization - Trends and Patterns. -08-

References:

- 1 Gopal Singh : A Geography of India, Atmarama and Sons, New Delhi.
- 2 ICAR : Cropping pattern in India, 1974.
- 3 Mathur, S.M. Physical Geology of India, NBT 1991.
- 4 Ranganath : Regional and economic Geography of India (Kan.Ver) Vidyanidhi, Gadag, 2006.
- 5 RanjitThirtha : Geography of India, Raniat, Jaipur 1996.
- 6 Khullar D.R. : . India a Comprehensive Geography, Kalyani Publishers, Ludhiana 2000.
- 7 Tiwari R.C. : Geography of India, Prayag Pustak Bhawan, Allahabad, 2003

IV Semester
Practical Course–IV
BASGEP 282/BSCGEP 282: Cartograms, and Distribution Maps

36 hrs - 3 hrs/week

UNIT I: Significance and use of cartograms in geography -06-

UNIT II: Graphs- -12-

- a) Line graphs-
- b) Single, double,
- c) Poly graphs
- d) Bar graphs-
 - a) single and multiple bars (Both vertical and horizontal)
 - e) Compound bar, pyramid graphs.
 - f) Climograph, - Hythergraph, Ergo graph.
 - g) Proportionate circles - Sector/ Wheel diagram.

UNIT III: Thematic mapping – -08-

- a) Choropleth method,
- b) Dot method,
- c) Choro schematic,
- d) Choro-Chromatic,
- e) Isopleth.

References:

1. Gopal Singh : Map Work and Practical Geography, III ed, Vikas Publishing House, New Delhi
2. Mishra R.P : Fundamentals of Cartography, 1969, Prasaranga University of Mysore, Mysore.
3. Monkhouse F.J : Maps and Diagrams
4. Raisz E : General Cartography, 1948. Tata-MC-Graw Hill, New York
5. Raisz E : General Cartography, 1948. Tata-MC-Graw Hill, New York
6. Robinson .H : Elements of Cartography, John Wiley, London. 1963.
7. Singh. R.L : Elements of Practical Geography Kalyani Publishers, New Delhi, 1979.
8. Singh. L. R : Practical Geography, Sharada Pustak Bhavan, Allahabad, 2008

Elective IV
BASGEOE 283/BSCGEOE 283: Regional Geography of India

24 hrs -2 hrs/week

UNIT I: Location and Extent, Physical features, Rivers, Climate, Soils, Natural Vegetation

-06-

UNIT II: Population – Growth, Diversity- distribution,

-06-

UNIT III: Economy – Agricultural – major crops- minerals resources, Power resources- coal –petroleum, Electricity.

-06-

UNIT IV: Industries – industrial regions – Iron and steel, cotton textiles, Fertilizers- cement -

-06-

References:

- 1 Gopal Singh : Geography of India, Atmarama and Sons, New Delhi.
- 2 ICAR : Cropping pattern in India, 1974.
- 3 Mathur, S.M. : Physical Geology of India, NBT 1991.
- 4 Ranganath : Regional and economic Geography of India (Kan.Ver) Vidyanidhi Gadag, 2006
- 5 Ranjit Thirtha : Geography of India, Ranjit, Jaipur 1996.
- 6 Khullar D.R : India a Comprehensive Geography, Kalyani Publishers Ludhiana 2000.
- 7 Tiwari R.C : Geography of India, Prayag Pustak Bhawan, Allahabad 2 ed. 2003.

V Semester
Compulsory Course –V
BASGEC 331/BSCGEC 331: Economic Geography of the World

48 hrs - 4 hrs/week

UNIT I: Economic Geography – Definition, field and approaches, Evolution of economic geography. -10-

UNIT II: Resources – Concept – characteristics – classification- conservation and management. Coal, Petroleum and Hydroelectricity. -10-

UNIT III: Agricultural and allied activities Agricultural types – agricultural regions – Von Thunen’s Agricultural location theory Crops – Rice and wheat, Cotton and sugar cane, Coffee and tea, Fishing and animal resources. -10-

UNIT IV: Industries- factors of location – weber's theory, Losch theory, Industrial regions of the world, International trade – basis, pattern and trends. -10-

UNIT V: Transportation-meaning, types of transportation- Transcontinental Roads and Railways. -08-

References:

- 1 Alexander and Hartshorne : Economic Geography Prentice-Hall, III ed. 2000.
- 2 Guha and Chattorji : A New approach to Economic Geography.
- 3 Khanna and Gupta : World Resources and Trade, S. Chand and Company, New Delhi.
- 4 Mallappa : Economic Geography (Kan.Ver) Chetana Book House, Mysore 2001. 5.
- 5 Ranganath : A Geography of Industrial Resources, Vidyanidhi Prakashna Gadag 2001.

V Semester
Elective Course – VI
BASGEC 332/BSCGEC 332: Settlement Geography

48 hrs - 4 hrs/week

UNIT I: Meanings of Settlements and types – rural settlements – classifications based on site, situation, shape and functions. -10-

UNIT II: Housing types; evolution of dwellings, housings, types based on Materials, roofs with India examples. -10-

UNIT III: Urban settlements – Definition, Location and situation, Hierarchy- Rank - size rule. Primate city concepts, Central place theory of Christaller's. -10-

UNIT IV: Structure of urban centres - Concentric theory, Sector theory, multiple nuclei theory. -10-

UNIT V: The Functional classification of Urban Settlements: Urban settlements. Its types, and process. -08-

References:

- 1 Dickens and Pitts : Introduction to Human Geography, 1963.
- 2 Harm d. Blij : Human and Economic Geography, Mac Millan, New York, 1992.
- 3 Hussain M. : Human Geography, Rawat Publications Jaipur, 2003.
- 4 Nellson, Gabler & Vining : Human Geography, People, Cultures and Landscapes, 1995.
- 5 Peter Daniels, Michael Bradshaw, 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 : Principles of Human Geography (Kan. Ver) Vidyanidhi, Gadag, 2002.
- 8 Rubenstein J.M : An Introduction to Human Geography, Mc. Millan Publishing Company 1992.
- 9 Singh. R.Y : Geography of Settlements, Rawat, New Delhi, 2007.
- 10 Harold Carter : The study of Urban Geography, 1982

V Semester
Elective Course –VII
BASGEC 333/BSCGEC 333: Geography of Tourism

48 hrs - 4 hrs/week

UNIT I: Origin, development and significances of tourism -Factors influencing Tourism.
Types of tourists- domestic and foreign. -06-

UNIT II: Tourism infrastructure- Transportation, communication, resorts and hotels. -06-

UNIT III: Tourism planning and development, Marketing advertisement–hospitality
Associated problems, Accommodation, accessibility and resources, financial
problem and resources. -12-

UNIT IV: Case Studies – Major tourist centres. Hill Station – Mount Abu, Shimla,
Kudremukha. S.Beach Points – Mangaluru, Vizag, Panaji, Marina beach.
Historical Centres– Badami, Bijapur, Mysore, Ellora and Tajmahal. Religious
Centers– Shirdi, Kanyakumari, Tirupathi and Dharmastala. -12-

UNIT V: Dams and Parks- T B Dam, Bhakra Nangal, DVC. National Parks – Dachigam
National Park, Gir National Park, Nanda Devi National Park, Periyar National Park.
-12-

References:

- 1 Jagmohan negi and Gaurav N Manohar : Tourism-India,50 years of independence,1947-97 status
- 2 Manohar Sajani : Encyclopaedia of Tourism resources in India Gyan, publications, 2001, New Delhi.
- 3 Goswami V.K. : Tourism in India, Gyan Publications, 1987
- 4 ManoharSajani : Tourism and growth, Management and incentives, Gyan Publications 2002
- 5 Bezbaruah M.P. : Indian Tourism, Beyond millennium, Gyan publications, 1999.
- 6 Batta.N : Tourism and the environment, Indus books 2007
- 7 Bhardwaj, Kandan Chaudhary : Domestic tourism in India ,Indus books,2004

V-SEMESTER
Practical Course – V
BASGEP 334/BSCGEP 334: Basic Statistics

36 hrs - 3 hrs/week

- UNIT I: Statistics-** meanings, importance and limitations- -06-
a) Sources of data- primary and secondary.
b) Sampling- meaning and types of sampling,
c) Simple size determination.
- UNIT II: Measures of central tendency –** -08-
a) Mean,
b) Median,
c) Mode, direct and short cut methods for individual discrete and grouped data
- UNIT III: Measures of dispersion–** -08-
a) Mean deviation,
b) Quartile deviation
c) Standard deviation.
- UNIT IV: Measures of Relative dispersions-** -06-
a) Co-efficient of Mean Deviations,
b) Coefficient of Variations.
- UNIT V: Correlation Analysis –** -08-
a) Characteristics and types,
b) Correlation, Coefficient for grouped and ungrouped data.

References:

- 1 Singh. R.L. : **Elements of Practical Geography**, Kalyani Publishers, New Delhi, 19791.
- 2 Gopal Singh : **Map Work and Practical Geography**, III ed, Vikas, Publishing House, New Delhi,
- 3 Mishra R.P : **Fundamentals of Cartography**, 1969, Prasaranga, University of Mysore, Mysore.
- 4 Zamir Alvi : **Statistical Geography, Methods and Applications**, Rawat Publications, Jaipur 1995.

V SEMESTER
Practical Course – VI
BASGEP 335/BSCGEP 335: Interpretation of Topographical Maps

36 hrs - 3 hrs/week

UNIT I: Topographical maps – Importance, types of SOI topographical maps based on scale. -06-

UNIT II: Conventional symbols – meaning – importance, conventional symbols of physical and cultural phenomena. Marginal features of the topographical maps. -10-

UNIT III: Interpretation of the topographical maps under the followings heads -10-

- a) Relief features
- b) Drainage pattern
- c) Natural vegetation and land use
- d) Settlements,
- e) Transportation and other cultural features.

UNIT IV: Conventional symbols of weather maps -Interpretation of Indian weather reports of – Rainy season winter season, summer season (Any two seasons). -10-

References:

- 1 Singh. R.L : **Elements of Practical Geography**, Kalyani Publishers, New Delhi, 1979.
- 2 Gopal Singh : **Map Work and Practical Geography**, III ed, Vikas Publishing House, New Delhi
- 3 Gupta K.K and Tyagi V.C : **Working with maps**, Survey of India, Department of Science and Technology, Govt. of India, Dehra Dun 1992.
- 4 Mishra R.P : **Fundamentals of Cartography**, 1969, Prasaranga, University of Mysore, Mysore.
- 5 Monkhouse F.J and Wilkinson H.R : **Maps and Diagrams** Mathuen and Co, Ltd., London 1952.
- 6 D.R. Khullar : **Essentials of Practical Geography.**, New Academic Publishing, Mai Hiran Gate, Jalandhar 2003

VI Semester
Compulsory Course - VIII
BASGEC 381/BSCGEC 381: Environmental Geography

48 hrs - 4 hrs/week

UNIT I: Meaning and components of environment- field and scope of environmental geography – Interdisciplinary nature of environmental geography. -10-

UNIT II: Ecosystem – Types – functions, energy flow, ecological pyramids, - Bio Geo Chemical cycles. -10-

UNIT III: Environmental Pollution -Meaning, types and causes of pollution Air pollution, water pollution, noise pollution and degradation, Depletion of ozone layer, Greenhouse effect Climate change. -10-

UNIT IV: Man induced changes in environment: Environment pollution, i.e. Air, water, noise, and solid waste with special reference to India. -10-

UNIT V: Conservation and management of environment -Role of International and National Polices- Role of UNO Rio Summit declarations. Kyoto Declarations. Koppen Hagen summits. -08-

References:

- 1 Agarwal K.C : Environmental Biology, Nidhi publishers Ltd, 2001, Bikaner
- 2 Chaurasia B.P : Environmental Pollution Consequences and measures
- 3 Mathur H.S : Environmental Resources; The crisis of Development
- 4 Odum E.P : Fundamentals of Ecology, WB Saunders Co, London, 1971
- 5 Saxena H.M : Environmental Geography Rawat, Publications, Jaipur, 1999
- 6 Sharma P.D : Ecology and Environment Rastogi Publications, New Delhi, 1999
- 7 Strahler and Strahler : Geography and Mans Environment, John Weily, New York 1986
- 8 Dash M.C : Fundamentals of Ecology, Tata McGraw Hill New Delhi 2002

VI Semester
Elective Course – IX
BASGEC 382/BSCGEC 382: Regional Geography of Karnataka

48 hrs - 4 hrs/week

- UNIT I: Physical setting** - location, size and extent- relief features – Climate, Rivers, Soils and vegetation. -08-
- UNIT II: Major Rivers Valley Projects** of Karnataka in the Krishna and Cauvery River basin. -08-
- UNIT III: Major Agricultural Regions** – Major Crops- Wheat, Rice, Sugar Cane, Cotton, and Coffee Dairy farming. -10-
- UNIT IV: Minerals and Industries** – Silk, Sugar, Software Industries. -10-
- UNIT V: Population**-Growth and Density, Sex- Ratio- Urbanization, Trends and Patterns. **Transportation**-Patterns of Road and Railways- Ports and Harbours Major Tourist Centres. -12-

References:

- 1 Govt. of Karnataka : Karnataka State Gazetteer, 2 Volumes-
Publication
- 2 Mallappa : Geography of Karnataka (Kan.Ver)
- 3 Mishra R.P. : Geography of Mysore State
- 4 NBK Reddy and Murthy : Regional Geography of Mysore State
G.S.
- 5 Ranganath : Regional Geography of Karnataka, Mysore
Book House, Mysore, 2010

VI Semester
Elective Courses - X
BASGEC 383/BSCGEC 383: Population and Political Geography

48 hrs - 4 hrs/week

UNIT I: Population geography – Evolution, Nature, and Scope. Approaches – Sources of Population data. -10-

UNIT II: Population Growth – Distribution, Density and Demographic Cycle Migration– Causes– Types and Consequences. -10-

UNIT III: Population composition - Literacy, Age Structure, Sex-Ratio, Life Expectancy, Rural – Urban Occupation. -10-

UNIT IV: Population policies and planning of India- Five year plans, Human development Index and its components, population and environment. -10-

UNIT V: Elements of political Geography –State and Nation, Frontiers, boundaries and buffer zones – Heart Land and Rim Land Theory. -08-

References:

- 1 Norris and Haring : Political Geography, Charles. E. Merrill Publishing Company
- 2 Dixit. R.D : Political Geography, PHI, New Delhi – 2008.
- 3 Ranganath : Principles of Human Geography, Vidyanidhi, 2008, Gadag
- 4 Chandna. R.C : Geography of Population Kalyani New Delhi 2008
- 5 Mohammad Izhar : Population Geography, Rawat, New Delhi - 2008 Hassan
- 6 Sudeepta Adhikari : Political Geography of India, Sharada, Allahabad, U.P.

VI SEMESTER
Practical Course – VII
BASGEP 384/BSCGEP 384: Fundamentals of GIS, GPS and Remote Sensing

36 hrs - 3 hrs/week

UNIT I: GIS- -10-

- a) Meaning, components of GIS,
- b) spatial data entities – Point, Line, Polygon –
- c) Source of Spatial Data –
- d) Topographical Maps,
- e) Aerial Photographs
- f) Satellite imageries

UNIT II: Spatial data structure and management– -10-

- a) Vector data structure,
- b) Raster data structure,
- c) Creating database.

UNIT III: Creating maps – digitization – Creating Database, - -06-

- a) Creating Thematic Maps – Map Furniture’s.

UNITIV: Global positioning system-(GPS) Concept, GPS reference systems, components
space segment, control segment, user segment. -06-

UNIT V: Remote Sensing – concept and images -interpretation of remote sensing. -04-

References:

- 1 Singh. R.L : **Elements of Practical Geography**, Kalyani Publishers, New Delhi, 1979, Dehra Dun 1992
- 2 Mishra R.P : **Fundamentals of Cartography**, 1969, Prasaranga, University of Mysore, Mysore
- 3 Punmia. B.C, Jain : **Surveying**, Laxmi publications (p) Ltd. New Delhi – 2005
- 4 Singh. L.R : **Practical Geography**, Sharada Pustak Bhavan, Allahabad 2009
- 5 Burrough P.A : Principles of GIS, OUP, 1998.
- 6 Maguire D.J : Computer in Geography. Longman, London 1989.
- 7 Star J.C and J.E : Geographic Information Systems, An introduction
- 8 Kang – Tsung – Chang : Introduction to Geographic Information Systems, Tata McGraw – Hill, New Delhi – 2008
- 9 Tor Bernardsen : Geographic Information System, Wiley, New Delhi – 2002
- 10 Prithvish Nag and Smitha Guptha : Geographical Information System, Concept, New Delhi- 2007,
- 11 Siddiqui. M.A : Introduction to Geographical Information, Systems, Sharada, Allahabad - 2009

VI Semester
Practical Course – VIII
BASGEP 385/BSCGEP 385: Field Techniques and Survey Based Project Report

36 hrs - 3 hrs/week

- UNIT I:** Field Work in Geographical Studies – Role, Value and Ethics of Field-Work. -05-
- UNIT II:** Defining the Field and Identifying the Case Study – Rural /Urban /Physical /Human /Environmental. -07-
- UNIT III:** Field Techniques – Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant). -08-
- UNIT IV:** Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants Constructing a Sketch). -08-
- UNIT V:** Designing the Field Report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report. -08-

Practical Record

- a) Each student will prepare an individual report based on primary and secondary data collected during field work.
- b) The duration of the field work should not exceed 10 days.
- c) The word count of the report should be about **8000 to 12,000** excluding figures, tables, photographs, maps, references and appendices.
- d) One copy of the report on A 4 size paper should be submitted in soft binding.

References:

- 1 Creswell J., : Research Design: Qualitative and Quantitative Approaches Sage, Publications. 1994
- 2 Dikshit, R. D. : The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi. 2003
- 3 Evans M., 1988: : Participant Observation: The Researcher as Research Tool” in Qualitative Methods in Human Geography, eds. J. Eyles and D. Smith, Polity.
- 4 Mukherjee, : Participatory Rural Appraisal: Methodology, and Application. Concept Publication Co., New Delhi. Neela 1993
- 5 Mukherjee, : Participatory Learning and Action: with 100, Field Methods. Concept Pubs. Co., New Delhi Neela 2002.
- 6 Robinson A., : Thinking Straight and Writing That Way”, in Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioural Sciences, eds. by F. Pryczak and R. Bruce Pryczak, Publishing: Los Angeles. 1998
- 7 Stoddard R. H., : Field Techniques and Research Methods in Geography, Kendall/Hunt 1982