# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (AUTONOMOUS) B.N. ROAD, MYSURU-570025



#### **DEPARTMENT OF GEOGRAPHY**

Revised Syllabus for Undergraduate (UG) CBCS scheme - 2017-18

#### PROFORMA OF INSTRUCTIONS AND EXAMINATION

#### PROGRAMME: BA in Economics, Geography

**CODE: BA11 (2017-18)** 

		Course code					Te	otal		D			mum Ma	Exam		
Year	SEM	&	Title of the paper	L + P hours per	L:T:P	Total Credit	ho	ours	Percentage			exam/Assessment			Duration	
		Core course		week			Th	Pr	Th	Pr	IA	Th	Pr	IA	Th	Pr
		DLA23011	Physical Geography	4												
	I	DSC-I :Theory	Thysical Geography	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
I BA		DLA23311 DSC-I: Pract-I	Contour diagrams and meteorological instruments	4												
		DLB23011	Human Geography	4												
	II	DSC-II: Theory		4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
		<b>DLB23311</b> DSC-II: Pract-II	Interpretation of Topographical Maps and Indian Daily Weather Maps	4												
		DLC23011	General Cartography	4			1		1	ı		ı	1		, ,	
	III	DSC-III:Theory	General Cartography		04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
		DLC23311 DSC-III:PractIII	Map Projection	4												
II BA		DLD23011	Environmental Congression	4												
	IV	DSC-IV: Theory	- Environmental Geography	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
	1 4	DLD23311	Statistical Methods in Geography	1												
		DSC-IV:PractIV		4												

			Choose any one													
		DSE-V: Theory		] ,												
		DLE23011(A)/	DSE- A: Geography of India	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
		DLE23011(B)	DSE- B: Economic Geography													
		DLE23711 DSE- V:Pract- V	Fundamentals of GIS	4												
	V	SEC	Choose any one													
		DLE23211(A)/	SEC-A : Regional Planning and Development													
		DLE23211 (B)	SEC-B: Remote Sensing and GPS Based Project Report	4	04:00:00	4	60	-	70	-	30	70	-	30	3h	
		GE 1	Regional Geography of India	4												
		DLE23411	regional Geography of India	•												
		<b>DLE23711</b> GE-1 V:Pract-I	Computer Mapping	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
III BA		Theory	Choose any one													
		DSE-VI:														
		DLF23011(A)/	DSE- A: Disaster Management	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
		DLF23011(B)	DSE -B :Geography of Tourism	_												
		DLF23711	Computer Mapping and GPS													
	VI	DSE- VI:PractVI	Surveying	4												
		SEC	Choose any one													
		DLF23211(A)/	SEC-A: GIS Based Project Report	4												
		DLF23211(B)	SEC-B: Field Techniques and Survey Based Project Report		04:00:00	4	60	-	70	-	30	70	-	30	3h	
		GE-2	Regional Geography of India	4												
		DLF23411					1			1					1	
		DLF23711 GE-2 VI:Pract-I	Computer Mapping	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
				56												

#### PROFORMA OF INSTRUCTIONS AND EXAMINATION

PROGRAMME: BA in Kannada, Geography

CODE:BA13 (2017-18)

		Course code	ode	L + P			Т	otal	Domaontogo			Maxi	mum M	Exam			
Year	Sem	&	Title of the paper	hours per week	L:T:P	Total Credit	ho	hours		Percentage			exam/Assessment			Duration	
		Core course		week			Th	Pr	Th	Pr	IA	Th	Pr	IA	Th	Pr	
		DLA23013	Physical Geography	4													
	I	DSC-I :Theory		4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h	
I BA	_	DLA23313 DSC-I: Pract-I	Contour diagrams and meteorological instruments	4													
		DLB23013	Human Geography	4													
	II	DSC-II: Theory		4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h	
		DLB23313 DSC-II: Pract-II	Interpretation of Topographical Maps and Indian Daily Weather Maps	4													
		DLC23013	General Cartography	4													
	III	DSC-III:Theory	General Cartography	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h	
		DLC23313	Map Projection	4													
		DSC-III:PractIII	Wap Trojection	7													
II BA		DLD23013	Environmental Geography	4													
	IV	DSC-IV: Theory	Environmental Geography		04:00:02	6	60	60	50	20	30	70	70	30	3h	3h	
	**	DLD23313	Section 1 Medical in Comment	4					•		•						
		DSC-IV:PractIV	Statistical Methods in Geography	4													

			Choose any one													
		DSE-V: Theory		]												
		DLE23013(A)/	DSE- A: Geography of India	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
		DLE23013(B)	DSE- B: Economic Geography													
		DLE23713 DSE- V:Pract- V	Fundamentals of GIS	4												
	V	SEC	Choose any one													
		DLE23213(A)/	SEC-A : Regional Planning and Development													
		DLE23213 (B)	SEC-B: Remote Sensing and GPS Based Project Report	4	04:00:00	4	60	-	70	-	30	70	-	30	3h	
		GE 1	Regional Geography of India	4												
		DLE23413	Regional Geography of India	-												
		<b>DLE23713</b> GE-1 V:Pract-I	Computer Mapping	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
III BA		Theory	Choose any one													
		DSE-VI:		4												
		DLF23013(A)/	DSE- A: Disaster Management		04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
		DLF23013(B)	DSE -B :Geography of Tourism													
		DLF23713	Community Marsing and CDC													
	VI	DSE- VI:PractVI	Computer Mapping and GPS Surveying	4												
		SEC	Choose any one													
		DLF23213(A)/	SEC-A: GIS Based Project Report	4												
		DLF23213(B)	SEC-B: Field Techniques and Survey Based Project Report		04:00:00	4	60	-	70	-	30	70	-	30	3h	
		GE-2	Regional Geography of India	4												
		DLF23413					1 1	1		, ,					<u> </u>	
		DLF23713 GE-2 VI:Pract-I	Computer Mapping	4	04:00:02	6	60	60	50	20	30	70	70	30	3h	3h
				56												

#### **Programme Outcome**

After completing the graduation in BA in Economics, Geography the students are able to:

- PO1. Explain, graph, and analyze key economics models
- PO2. Understand current events and evaluate specific policy proposals
- PO3. To address problem that do not have clear economic solutions
- PO4. Develop critical and quantitative thinking skills
- PO5. Communicate effectively in written, oral and graphical form about specific issues
- PO6. Apply economic analysis to everyday problems in real world situations
- PO7. Understand and appreciate relationship between man and Environment
- PO8. Read, interpret, and generate maps and other geographic representations
- PO9. To extract, analyze, and present information from a spatial perspective
- PO10. Understand physical-geographic processes, global distribution of Landforms and ecosystems
- PO11. The role of physical environment on human population
- PO12. Develop the ethical aptitudes and dispositions necessary to acquire and hold

  Leadership positions in industry, government, and professional organizations

#### **Programme Outcome**

After completing the graduation in BA in Kannada, Geography the students will:

- PO1. Develop human values and a sense of social service
- PO2. Become a responsible and dutiful citizen.
- PO3 Abel to enhance critical temper and creative ability
- PO4. Understand and appreciate relationship between man and Environment.
- PO5. Read, interpret, and generate maps and other geographic representations
- PO6. Understand physical- geographic processes, the global distribution of landforms and Ecosystems
- PO7.Role of the physical environment on human populations

#### **Programme Specific Outcome**

On completion of BA in Economics, Geography students will:

- PSO1. Understand theoretical and practical aspects of Economics and Geography
- PSO2. Evaluate Economic behavior inconsonance with Geographical factors
- PSO3. Suggest the policy makers about desirable changes to be made in Micro and Macro Economic issues based on geographical factors
- PSO4. Gain ability to understand the economic problems in Geographical indicators
- PSO5. Able to offer palatable solutions for economic and geographical challenges
- PSO6. Attain Proficiency to analyze the economic decision of Government and non-Govt. Entities that correlate with Geographical factors
- PSO7. Gain requisite knowledge to evaluate land use pattern and demographical profile
- PSO8. Apply GIS for understanding Market situation, Transport problem change in Weather Condition, Cropping Pattern, and Natural Calamities and so on

#### **Programme Specific Outcome**

On completion of BA in Kannada, Geography students will:

- PSO 1: Know more specific terminologies along with its etymology
- PSO2: Know the changes in the differences in formation of society and their culture
- PSO3: Help to understand different races, Society, and culture.
- PSO4 Understand the relationship between man and environment
- PSO6. Understand in simple language environmental problems their cause, Effect and Remedies.
- PSO7. Help the students to pursue higher studies and even in research
- PSO8 Helpful for competitive examinations
- PSO9. Students may help to guide agricultural activities, fertility of soils, their characteristics, Climatic condition, in regional language

## I SEMESTER Geography I: PHYSICAL GEOGRAPHY

CO1. Learn the details of theories regarding origin of the Earth system

CO3. Learn in details with examples geomorphic agents

CO2. Understand the classification and characteristics of Composition of the Earth

#### **Course Outcome**

CO4. Understand in details with application, if applicable, atmospheric structure and	composition
CO5. Understand in details with application, if applicable, relief of the ocean floor	
UNIT	No. of Hours
<ol> <li>Physical Geography:         <ul> <li>Meaning, Definition, Field, Nature(Multidisciplinary) and Scope, Component Of Earth System – Lithosphere, Atmosphere, Hydrosphere and Biosphere</li> <li>Theories regarding origin of the Earth: Nebular and Tidal theories</li> </ul> </li> </ol>	10
<ul> <li>2. Lithosphere:</li> <li>a) Structure and Composition of the earth</li> <li>b) Distribution of land and water bodies: Wegner's Theory of Continental Drift and plate Tectonic</li> </ul>	15
3. Geomorphic agents and processes of Denudation i) River ii) Glacier iii) Underground water iv) Wind	10
<ul><li>4. Atmosphere</li><li>a) Meaning, composition and structure</li></ul>	15
<ul> <li>b) Distribution of Temperature, Pressure and Wind system – Insulation, F., Atmospheric temperature,</li> <li>c) Atmospheric Pressure – Factors affecting on pressure,</li> <li>Vertical and Horizontal distribution, Pressure belts of the world,</li> <li>d) Winds system – Factors affecting, types – Planetary, seasonal, local and Variable winds – with special reference to Tropical cyclones.</li> </ul>	Factors affecting
5. Hydrosphere	10
<ul><li>a) Relief of ocean floor</li><li>b) Tides and Ocean currents – Indian and Pacific</li></ul>	

- 1. Conserva H. T., 2004: Illustrated Dictionary of Physical Geography, Author House, USA.
- 2. Gabler R. E., Petersen J. F. and Trapasso, L. M., 2007: Essentials of Physical Geography (8th Edition), Thompson, Brooks/Cole, USA
- 3. Garrett N., 2000: Advanced Geography, Oxford University Press.
- 4. Goudie, A., 1984: The Nature of the Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford
- 5. Hamblin, W. K., 1995: Earth's Dynamic System, Prentice Hall, N.J.
- 6. Husain M., 2002: Fundamentals of Physical Geography, Rawat Publications, Jaipur.
- 7. Monkhouse, F. J. 2009: Principles of Physical Geography, Platinum Publishers, Kolkata
- 8. Strahler A. N. and Strahler A. H., 2008: Modern Physical Geography, John Wiley & Sons, New York.
- 9. B.N Tikka Physical Geography
- 10. Savindra Singh Physical Geography

#### DLA23311 / DLA23313

#### **I SEMSETER**

#### **Practical I: Contour Diagrams and Meteorological Instruments**

30

UNIT No. of Hours

- 1. a). Representation of Relief Features: Hachure and Spot height, 30 Bench Mark and contours
  - b). Contour Diagrams. Slopes Uniform, Undulating, Convex, Concave, Conical hill, Ridge, V & U shaped Valleys, Hanging valley, Plateau, Mountain pass, Rapids and waterfalls.
- 2. **a)** Meteorological Instruments- Functions and usesCentigrade & Fahrenheit Thermometer, Maximum and
  Minimum thermometer, Hygrometer,
  Mercury barometer, Aneroid Barometer,
  Wind vane, Cup Anemometer,
  Rain gauge

#### **References:**

1. Gopal Singh : Map work and practical geography; Surject Book Depot, Delhi.

2. John and Keats : Cartographic design and production.

3. Mishra R.P : Fundamentals of Cartography, Prasaranga, University of Mysore, Mysore.

4. Monkhouse F.J

And Wilkinson H.R : Maps and Diagrams, Mathuen & Co. Ltd, London 5. Raisz .F : General Cartography, Mc Graw Hill Book Co. Inc.

6. Ranganath : An introduction to Practical Geography (Kan & Eng) Vidhyanidhi

prakashana, Gadag.

7. Singh R.L : Elements of Practical Geography; Students Friends, Allahabad, India,

2006.

8. Khullar : Elements of Practical Geography; New Academic, Publishing co,

Jalandhar.

9. S.S. Nanjannavar : Practical Geography (kan & Eng. Version) Vidhyanidhi Prakashana,

Gadag.

#### DLB23011 / DLB23013

### II SEMSETER Geography II: HUMAN GEOGRAPHY

#### **Course Outcome**

- CO1. Write down the details of human geography importance
- CO2. Deliberate in details with examples race, religion and language study
- CO3. Specify the details of demographic age transition study
- CO4. Understand in details with application, if applicable, population composition
- CO5. Learn in details with application, if applicable, human settlement study

UNIT	No. of Hou
1. Definition, Nature, Scope, Branches and Importance of Human Geography	8
2. Space and Society: Origin, Distribution and Types of Race, Religion and Language	12
3. Population Growth, Distribution and Density, Demographic Transition Theory.	10
4. Population Composition- Age Structure, Sex Ratio, Literacy rate	10
5. Human Settlements: Meaning, evolution and types – Rural and urban, patterns of settlements, trends of world urbanization.	20

#### **Reading List**

- 1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
- 2. Daniel, P.A. and Hopkinson, M.F. (1989) 'The Geography of Settlement', Oliver & Boyd, London
- 3. Johnston R; Gregory D, Pratt G. et al. (2008), 'The Dictionary of Human Geography', Blackwell Publication.
- 4. Jordan-Bychkov et al. (2006) 'The Human Mosaic: A Thematic Introduction to Cultural Geography' W. H. Freeman and Company, New York
- 5. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
- 6. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
- 7. Ghosh, S. (2015) Introduction to settlement geography. Orient Black Swan Private Ltd., Kolkata
- 8. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

#### DLB23311 / DLB23313

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8. 9.

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Phyllis Dink

Robinson H.

D.R. Khullar

Ramamurthy

#### II SEMSETER

### Practical II: INTERPRETATION OF TOPOGRAPHICAL MAPS AND INDIAN DAILY WEATHER MAPS

**UNIT** No. of Hours a) Importance of Topographical Maps -40 1. b). Conventional signs and symbols. Interpretation of topographical maps pertaining to i) Physical Landscape - a. Relief features, b. Drainage system. c. Natural vegetation, land use and land cover ii) Cultural landscape – Settlements and Transportation network. 2. Interpretation of Indian Daily Weather Maps. 20 Conventional Signs and symbols. 2. Interpretation of Indian daily Weather Reports-Two seasons **References:** 1. Singh R. L. Elements of Practical Geography Gopal Singh Map Work and Practical Geography 2. 3. Gupta K. K. and Tyagi V.C. Working with maps John and Keats Cartographic design and production 4. 5. Mishra R. P. Fundamentals of Cartography 6. Monkhouse F. J. Maps and diagrams. And Wilknson H.R.

Map Work

Elements of Practical Geography

Essentials of Practical Geography

Map Interpretation, University of Madras

#### DLC23011 / DLC23013

#### III SEMESTER GEOGRAPHY III: GENERAL CARTOGRAPHY

#### **Course Outcome**

- CO1. Understand in details with application, if applicable, evolution of cartography
- CO2. Identify in details with examples maps study
- CO3. Write down in details with examples map scale
- CO4. Specify the classification and characteristics of map projection
- CO5. Understand the details of representation of date

UNIT	No. of Hours
1. Evolution of cartography – Traditional and Digital	06
2. Maps – Types, Elements and Uses	09
3. Map Scale – Types and Application, Reading Distances on a Map.	10
4. Map projection- Meaning, Types, Importance and uses	15
5. Representation of Data – Symbols, Dots, Choropleth, Isopleths and	
Flow Diagrams, Interpretation of Thematic Maps.	20

**Note:** This paper is not a practical paper, and the objective is to give basic information about various tools and techniques used in making maps. Students will not be involved in any laboratory work or hands on exercises, though a few demonstrations in the laboratories by teachers are recommended.

- 1. Dent B. D., 1999: Cartography: Thematic Map Design, (Vol. 1), McGraw Hill.
- 2. Gupta K. K and Tyagi V. C., 1992: Working with Maps, Survey of India, DST, New Delhi.
- 3. Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept Publishing.
- 4. Robinson A., 1953: Elements of Cartography, John Wiley.
- 5. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers.
- 6. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers
- 7. Singh R. L., 1998: Prayogic Bhoogol Rooprekha, Kalyani Publications.
- 8. Steers J. A., 1965: An Introduction to the Study of Map Projections, University of London

#### DLC23311 / DLC23313

## III SEMESTER Practical III: MAP PROJECTION PRACTICAL

UNIT		No. of Hours
1.	Cylindrical Map Projections:	25
	A) Simple cylindrical projection	
	B) Cylindrical Equal- area projection	
	C) Mercator's projection	
2.	Conical Map projections	10
	A) Simple Conical projection	
	B) Bonne's projection	
	C) Polyconic projection	
3.	Zenithal map projections (Polar Case)	25
	A) Zenithal Equal -distant.	
	B) Zenithal Equal – area	
	C) Zenithal Gnomonic	
	D) Zenithal Stereographic	
Note:	The above map projections should be constructed with exerci Properties and uses.	ses,

1.	Salar Massod. M.	:	Map Projections, Roa and Raghavam Co.,
			Mysore.
2.	Ranganath & Mallappa	:	Map Projections ( kan version ), Chetana
			Book House, Mysore.
3.	Erwin Raisz	:	General Cartography; Mc Graw- Hill book
			Company Inc.
4.	Singh R L	:	Elements of Practical Geography, Student's
			Friend, Allahabad.
5.	George P Kellaway	:	Methuen & Co., Ltd., London.
6.	Gopal Singh	:	Map work & Practical Geography, Surject
			Book Depot, New Delhi.

#### DLD23011 / DLD23013

## IV- SEMESTER Geography IV: ENVIRONMENTAL GEOGRAPHY

#### Course outcome

- CO1. Deliberate the characteristics of interdisciplinary nature of environmental geography
- CO2. Learn in depth ecosystem study
- CO3. Identify in details with examples environmental pollution
- CO4. Understand in depth conservation and management of environment

UNIT No. of Hours

- Meaning and components of environment- field and scope of environmental Geography – Interdisciplinary nature of environmental geography
- Ecosystem Types functions, energy flow, ecological pyramids,- Bio Geo Chemical
   Cycles.
- 3. Environmental pollution -Meaning, types and causes of pollution Air pollution, water pollution, noise pollution and degradation, Depletion of ozone layer, Green house effect Climate change.
- 4. Conservation and management of environment -role of international and national policesrole of UNO .Rio summit declarations. Kyoto Declarations. Koppen Hagen summits, 15

- 1. Casper J.K. (2010) Changing Ecosystems: Effects of Global Warming. Infobase Pub. New York.
- 2. Hudson, T. (2011) Living with Earth: An Introduction to Environmental Geology, PHI Learning Private Limited, New Delhi.
- 3. Miller, G.T. (2007) Living in the Environment: Principles, Connections, and Solutions, Brooks/ Cole Cengage Learning, Belmont.
- 4. Singh, R.B. (1993) Environmental Geography, Heritage Publishers, New Delhi.
- 5. UNEP (2007) Global Environment Outlook: GEO4: Environment for Development, United Nation's Environment Programme. University Press, Cambridge.
- 6. Wright R. T. and Boorse, D. F. (2010) Toward a Sustainable Future, PHI Learning Pvt. Ltd, New Delhi.
- 7. Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies, Springer
- 8. Singh, Savindra 2001. Paryavaran Bhugol, Prayag Pustak Bhawan, Allahabad. (in Hindi)
- 9. L.T Nayak Environmental Geography (in Kannada)
- 10. Dr. Ranganath Environmental Studies (in Kannada)

#### DLD23311 / DLD23313

#### IV - SEMESTER

#### Practical IV: APPLICATIONS OF STATISTICALMETHODS IN GEOGRAPHY

a). Methods of data collection – Primary and Secondary sources, census and sampling methods
 b). Measures of Central Tendency: Direct and shortcut Methods a) Arithmetic mean b) Median c) Mode (Grouping and formula)
 a). Measures of dispersion – Mean and standard deviations b). Measures of association correlation

#### **References:**

c).

1. Singh R. L. : Elements of Practical Geography

2. Gopal Singh : Map Work and Practical Geography

3. Misra R. P. : Fundamentals of Cartography

Time series analysis

4. Zamir Alvi : Statistical Geography, Methods and Applications.

5. Aslam Mahmood : Statistical Methods in Geography.

6. Ashis Sarkar : Practical Geography, Orient Longman, Kolkata.

7. Dr. C K Renukarya : Basic statistics (Kan & Eng Version)

#### DLE23011 (A) / DLE23013 (A)

#### V – SEMSETER Geography V: GEOGRAPHY OF INDIA

#### **Course outcome**

CO1. Deliberate in depth physical stinting of India
CO2.Write down in details with examples Irrigation system of India
CO3. Identify in depth population study of India
CO4. Learn in depth resources base study of India
CO5. Identify the characteristics of economic study of India

UNIT No. of Hours

1.	Location, size and extent of India – Reflet features- Drainage system –	
	Climate	15
2.	Irrigation - Types, multipurpose river valley projects - DVC, Bhakra-	Nangal,
	Alamatti	10
3.	Population – Size and Growth since 1901, Population Density and	
	Distribution, Literacy, Sex Ratio.	10
4.	Resource Base –Livestock (cattle & fisheries),Power	
	(Coal,& hydroelectricity) Minerals (iron ore and bauxite).	10
5.	Economy – Agriculture (Rice, Wheat, Sugarcane, Tea, Cotton);	
	Industries (Cotton Textile, Iron-Steel, Automobile), Transportation	
	Modes (Road and Rail).	15

- 1. Hussain M., 1992: Geography of India, Tata McGraw Hill Education.
- 2. Mamoria C. B., 1980: *Economic and Commercial Geography of India*, Shiva Lal Agarwala.
- 3. Miller F. P., Vandome A. F. and McBrewster J., 2009: Geography of India: Indo-Gangetic Plain,
  - Thar Desert, Major Rivers of India, Climate of India and Geology of India Alphascript Publishing.
- 4. Nag P. and Sengupta S., 1992: Geography of India, Concept Publishing.
- 5 Pichamuthu C. S., 1967: *Physical Geography of India*, National Book Trust.
- 6 Sharma T. C. and Coutinho O., 1997: *Economic and Commercial Geography of India*, Vikas Publishing.
- 7. Singh Gopal, 1976: A Geography of India, Atma Ram.
- 8. Spate O. H. K. and Learmonth A. T. A., 1967: *India and Pakistan: A General and Regional Geography*,

#### DLE23011 (B) / DLE23013 (B)

### V-SEMSTER GEOGRAPHY V: ECONOMIC GEOGRAPHY

#### Course outcome

CO1. Identify the classification and characteristics of concepts of economic geography
CO2. Understand the characteristics of locational theories
CO3 .Understand in depth study of primary activities

CO5. Write down in details with examples study of tertiary and quaternary activities

CO4. Learn the details of study of secondary activities

UNIT No. of Hours

1.	Definition, Approaches and Fundamental Concepts of Economic	
	Geography; Patterns of Development.	12
2.	Locational Theories – Agriculture (Von Thunen) and Industrial (Weber).	12
3.	Primary Activities – Intensive Subsistence Farming, Commercial	
	Grain Farming, Plantation, Commercial Dairy Farming, Commercial Fishir	ng, and Mining
	(iron ore, coal and petroleum).	12
4.	Secondary Activities – Cotton Textile Industry, Petro-Chemical	
	Industry, Major Manufacturing Regions.	12
5.	Tertiary and Quaternary Activities – Modes of Transportation,	
	Patterns of International Trade, and Information and Communication	Гесhnology
	Industry.	12

#### **Reading List**

- 1. Alexander J. W., 1963: *Economic Geography*, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
- 2. Bagchi-Sen S. and Smith H. L., 2006: *Economic Geography: Past, Present and Future*, Taylor and Francis.
- 3. Coe N. M., Kelly P. F. and Yeung H. W., 2007: *Economic Geography: A Contemporary Introduction*, Wiley-Blackwell.
- 4. Combes P., Mayer T. and Thisse J. F., 2008: *Economic Geography: The Integration of Regions and Nations*, Princeton University Press.
- 5. Durand L., 1961: Economic Geography, Crowell.
- 6. Hodder B. W. and Lee R., 1974: Economic Geography, Taylor and Francis.
- 7. Wheeler J. O., 1998: Economic Geography, Wiley.
- 8. Willington D. E., 2008: Economic Geography, Husband Pres

#### DLE23711 / DLE23713

### V- SEMESTER Practical V: FUNDAMENTALS OF G.I.S

UNIT		No. of I	Iours
1	a) b)	Meaning, definitions, components and importance of GIS Spatial entities – Point, line and polygon Sources of spatial	20
	ŕ	data- Census, Topographical Maps, Aerial Photographs and Satellite Imag	geries
2	a)	Spatial Data Structure Raster and vector data Structures	20
		Linking spatial and non spatial data	
	b)	Introduction to MapInfo software	
3	a)	Geo – referencing, Choice of map projection – Digitization, Attaching attribute data (Creating data base), Editing, Map layout, Thematic map	20

#### **References:**

1. Burrough P.A. : Geographical Information Systems for Land Resources

2. Maguire D. J. : Computers in Geography

3. Star J. C and J.E. : Geographic Information Systems

4. Internet : GIS. Development

5. Heywood : Introduction to GIS, 2002.

6. Mahesh : Introduction to GSI Shivalingappa Chandrashekar

### $\label{eq:V-SEMSETER} V-SEMSETER$ Geography VI: REGIONAL PLANNING AND DEVELOPMENT

#### **Course Outcome**

- CO1. Deliberate the details of concept of regional planning and development
- CO2. Write down in details with application, if applicable, characteristics and delineation of planning region
- CO3. Write down the characteristics of regionalization of India for planning
- CO4. Deliberate the details of models for regional planning
- CO5. Learn in depth backward regions and regional plans

UNIT		No. of Hours
1.	Concept, Need and Types of Regional Planning.	8
2.	Characteristics and Delineation of Planning Region.	10
3.	Regionalization of India for Planning (Agro Ecological Zones).	12
4.	Models for Regional Planning: Growth Pole Theory; Core Periphery	
	Model and Growth Foci Concept in Indian Context	
5	Backward Regions and Regional Plans- Special Area Development Pla	ns in 15
I	India; DVC-The Success Story and the Failures; NITI Aayog.	

- 1. Blij H. J. De, 1971: Geography: Regions and Concepts, John Wiley and Sons.
- 2. Claval P.l, 1998: An Introduction to Regional Geography, Blackwell Publishers, Oxford and Massachusetts.
- 3. Friedmann J. and Alonso W. (1975): Regional Policy Readings in Theory and Applications, MIT Press,
  Massachusetts.
- 4. Gore C. G., 1984: Regions in Question: Space, Development Theory and Regional Policy, Methuen, London.
- 5. Gore C. G., Köhler G., Reich U-P. and Ziesemer T., 1996: Questioning Development; Essays on the Theory,
  - Policies and Practice of Development Intervention, Metropolis- Verlag, Marburg.
- 6. Haynes J., 2008: Development Studies, Polity Short Introduction Series.
- 7. Johnson E. A. J., 1970: The Organization of Space in Developing Countries, MIT Press.
- 8. Peet R., 1999: Theories of Development, The Guilford Press, New York
- 9. UNDP 2001-04: Human Development Report, Oxford University Press
- 10. World Bank 2001-05: World Development Report, Oxford University Press, New

#### DLE23211 (B) / DLE23213 (B)

## V – SEMESTER Geography VI: REMOTE SENSING AND GPS BASED PROJECT REPORT

#### **Course Outcome**

- CO1. Understand the characteristics of concept of remote sensing
- CO2. Identify in details with examples study of aerial photography
- CO3. Specify the details of principals of remote sensing satellites
- CO4. Write down the classification and characteristics of interpretation and application of remote sensing
- CO5. Deliberate in details with application, if applicable, study of global positing system

UNIT No. of Hours

1.	Remote Sensing: Definition, Development, Platforms and Types.	12
2.	Aerial Photography: Principles, Types and Geometry.	12
3.	Satellite Remote Sensing: Principles, EMR Interaction with	
	Atmosphere and Earth Surface; Satellites (Land sat and IRS) and Sensors	. 12
4.	Interpretation and Application of Remote Sensing: Land use/ Land Cover.	12
5.	Global Positioning System (GPS) – Principles and Uses	12

**Practical Record:** A project file consisting of five exercises will be done from aerial photos, satellite images (scale, orientation and interpretation) and GPS field survey.

#### **Reading List**

- 1. Campbell J. B., 2007: Introduction to Remote Sensing, Guildford Press.
- 2. Jensen J. R., 2004: Introductory Digital Image Processing: A Remote Sensing Perspective, Prentice Hall.
- 3. Joseph, G. 2005: Fundamentals of Remote Sensing, United Press India.
- 4. Lillesand T. M., Kiefer R. W. and Chipman J. W., 2004: Remote Sensing and Image Interpretation, Wiley. (Wiley Student Edition).
- 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 Dewitt B. A., 2000: Elements of Photogrammetry: With Applications in GIS, McGraw-Hill.

## GENERIC ELECTIVES - I V – SEMESTER GEOGRAPHY V: REGIONAL GEOGRAPHY OF INDIA

#### **Course outcome**

- CO1. Identify the characteristics of size and extent of India
- CO2. Understand the classification and characteristics of multipurpose river
- CO3. Identify the classification and characteristics of Population density and distribution
- CO4. Learn in details with examples power resources of India
- CO5. Specify the characteristics of Transportation modes

UNITS No. of Hours

1.	Location, size and extent of India – Relief features- Drainage system –	
	Climate	15
2.	Irrigation – Types, multipurpose river valley projects – DVC, Bhakra- Nangal,	
	Alamatti	10
3.	Population – Size and Growth since 1901, Population Density and	
	Distribution, Literacy, Sex Ratio.	10
4.	Resource Base –Livestock (cattle & fisheries),Power	
	(Coal,& hydroelectricity) Minerals (iron ore and bauxite).	10
5.	Economy – Agriculture (Rice, Wheat, Sugarcane, Tea, Cotton);	
	Industries (Cotton Textile, Iron-Steel, Automobile), Transportation	
	Modes (Road and Rail).	15

#### **Reference:**

- 1. Hussain M., 1992: Geography of India, Tata McGraw Hill Education.
- 2. Mamoria C. B., 1980: Economic and Commercial Geography of India, Shiva Lal Agarwala.
- 3. Miller F. P., Vandome A. F. and McBrewster J., 2009: Geography of India: Indo- Gangetic Plain,

Thar Desert, Major Rivers of India, Climate of India, Geology of India, Alphascript Publishing

- 4. Nag P. and Sengupta S., 1992: Geography of India, Concept Publishing Pichamuthu C. S., 1967: Physical Geography of India, National Book Trust.
- 5 Sharma T. C. and Coutinho O., 1997: Economic and Commercial Geography of India, Vikas Publishing.
- 6 Singh Gopal, 1976: A Geography of India, Atma Ram.
- 7 Spate O. H. K. and Learmonth A. T. A., 1967: India and Pakistan: A General and Regional Geography,

## GENERIC ELECTIVES - I V – SEMESTER PRACTICAL V: COMPUTER MAPPING

UNIT		No. of Hours
1.	Introduction to Computer : Generation of Computers, Hardware and Software Components	20
2.	Computer graphics: Creating Data base in computer, creation of Line, Bar and Pie diagrams. Thematic Maps - Choro chromatic and Schematic Maps	20
3.	GPS - Meaning, Function and its applications.	10
4.	Tour report / Factory visit	10

#### **References:**

1. Singh L.R. : Fundamentals of Practical Geography, Sharadha

Pustaka Bhavan, Alahabad, 2006

2. Dr. M.A. Siddaqui : Introduction to Geographical Information System,

Sharadha Pustaka Bhavan,

Alahabad, 2006

3. Chang : Introduction to GIS, Tata McGraw Hill W,

New Delhi.

#### DLF23011 (A) / DLF23013 (A)

#### VI – Semester Geography VI: DISASTER MANAGEMENT

#### **Course Outcome**

CO1. Identify in details with application, if applicable, hazards and disasters concepts
CO2. Specify the characteristics of flood, landslide, drought are in India
CO3. Write down in details with examples earthquake tsunami and cyclone are in India
CO4. Identify the classification and characteristics of human induced disasters
CO5. Learn in details with examples response and mitigation to disaster

**UNIT** No. of Hours 1. Hazards, Risk, Vulnerability and Disasters: Definition and Concepts. 12 2. Disasters in India: (a) Causes, Impact, Distribution and Mapping: Flood, Landslide, Drought. 12 3. Disasters in India: (b) Causes, Impact, Distribution and Mapping: Earthquake, Tsunami and Cyclone. 12 12 4. Human induced disasters: Causes, Impact, Distribution and Mapping. 5. Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During Disasters 12

#### **Reading List**

- 1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
- 2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
- 3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
- 4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
- 5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
- 6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
- 7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
- 8. Singh Jagbir (2007) "Disaster Management Future Challenges and Oppurtunities", 2007. Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com).

#### DLF23011 (B) / DLF23013 (B)

CO1. Learn in depth geography of tourism concepts

CO5. Understand the details of tourism in India

CO2. Specify in details with examples types of tourism

CO3. Learn in details with application, if applicable, recent trends of tourism

CO4. Identify in details with application, if applicable, impact of tourism

#### VI – SEMESTER Geography VI: GEOGRAPHY OF TOURISM

#### **Course outcome**

UNIT No. of H	
1. Origin, Development and significance of Tourism – factors influencing on tour	ism 10
2. Type of Tourism: Nature Tourism, Cultural Tourism, Medical Tourism, Pilgrimage	15
3. Recent Trends of Tourism: International and Regional; Domestic (India); Eco-Tourism, Sustainable Tourism, Meetings, Incentives, Conventions And Exhibitions (MICE), Carrying capacity of Tourism	15
<ul> <li>4. Impact of Tourism: Economy; Environment; Society</li> <li>5. Tourism in India: Tourism Infrastructure; Case Studies of Himalaya,</li> </ul>	10
Desert and Coastal and Heritage: National Tourism Policy	10

#### **Reference:**

- 1. Dhar, P.N. (2006) International Tourism: Emerging Challenges and Future Prospects. Kanishka, New Delhi.
- 2. Hall, M. and Stephen, P. (2006) Geography of Tourism and Recreation Environment, Place and Space, Routledge, London.
- 3. Kamra, K. K. and Chand, M. (2007) Basics of Tourism: Theory, Operation and Practise, Kanishka

Publishers, Pune.

- 4. Page, S. J. (2011) Tourism Management: An Introduction, Butterworth-Heinemann-USA.
- 5. Raj, R. and Nigel, D. (2007) Morpeth Religious Tourism and Pilgrimage Festivals Management: An International perspective by, CABI, Cambridge, USA, www.cabi.org.
- 6. Tourism Recreation and Research Journal, Center for Tourism Research and Development,

Lucknow

7. Singh Jagbir (2014) "Eco-Tourism" Published by - I.K. International Pvt. Ltd. S-25, Green Park

Extension, Uphaar Cinema Market, New Delhi, India(www.ikbooks.com).

#### DLF23711 / DLF23713

#### VI – SEMESTER Practical VI: COMPUTER MAPPING AND GPS SURVEYING

UNIT		No. of Hours
1.	Introduction to Computer : Generation of Computers, Hardware and Software Components	20
2.	Computer graphics: Creating Data base in computer, creation of Line, Bar and Pie diagrams. Thematic Maps - Choro chromatic and Schematic Maps	20
3.	GPS Surveying: Concepts, Segments and applications, plotting way Points by using map source software.	20
4.	Tour report / Factory visit	

#### **References:**

1. Singh L.R. : Fundamentals of Practical Geography, Sharadha

Pustaka Bhavan, Alahabad, 2006

2. Dr. M.A. Siddaqui : Introduction to Geographical Information System, Sharadha

Pustaka Bhavan, Alahabad, 2006

3. Chang : Introduction to GIS, Tata McGraw Hill W,

New Delhi.

#### DLF23211 (A) / DLF23213 (A)

#### VI – SEMESTER Geography VI: GIS BASED PROJECT REPORT

#### **Course Outcome**

- CO1. Identify the characteristics of study of GIS
- CO2. Specify in depth GIS data structures
- CO3. Write down in depth GIS data analysis
- CO4. Deliberate in details with examples Application of GIS in Land use
- CO5. Identify the classification and characteristics of Application of GIS in Urban and Forest monitoring

UNIT No. of Hours

1.	Geographical Information System (GIS): Definition and Components.	12
2.	GIS Data Structures: Types (spatial and Non-spatial), Raster	
	And Vector Data Structure.	12
3.	GIS Data Analysis: Input; Geo-Referencing; Editing and Output; Overlays.	12
4.	Application of GIS in Land Use/Land Cover Mapping.	12
5.	Application of GIS in Urban Sprawl and Forests Monitoring	12

**Practical Record**: A project file consisting of 5 exercises on using any GIS Software on above mentioned themes.

- 1. Bhatta, B. (2010) Analysis of Urban Growth and Sprawl from Remote Sensing, Springer, Berlin Heidelberg.41
- 2. Burrough, P.A., and McDonnell, R.A. (2000) Principles of Geographical Information System Spatial Information System and Geo-statistics.
  - Oxford University Press
- 3. Chauniyal, D.D. (2010) Sudur Samvedan evam Bhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad
- 4. Heywoods, I., Cornelius, S and Carver, S. (2006) An Introduction to Geographical Infromation system. Prentice Hall.
- 5. Jha, M.M. and Singh, R.B. (2008) Land Use: Reflection on Spatial Informatics Agriculture and Development, New Delhi: Concept.
- 6. Nag, P. (2008) Introduction to GIS, Concept India, New Delhi.
- 7. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
- 8. Singh, R.B. and Murai, S. (1998) Space Informatics for Sustainable Development, Oxford and IBH, New Delhi.

#### DLF23211 (B) / DLF23213 (B)

## VI – SEMESTER Geography VI: FIELD TECHNIQUES AND SURVEY BASED PROJECT REPORT

#### **Course Outcome**

- CO2. Deliberate in details with application, if applicable, case study rural and urban
- CO3. Specify in details with examples field work in Geographical studies
- CO4. Understand in details with examples preparation of questionnaires
- CO5. Learn the details of designing the field report

UNIT No. of Hours

ı.	Field Work in Geographical Studies – Role, Value and Ethics of Field-Work	10
2.	Defining the Field and Identifying the Case Study – Rural /Urban /Physical /Human /	
	Environmental.	10
<b>3.</b>	Field Techniques – Merits, Demerits and Selection of the Appropriate Technique;	
	Observation (Participant / Non Participant).	12
4.	Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with	16
	Special Focus on Focused Group Discussions; Space Survey (Transects and	
	Quadrants, Constructing a Sketch).	

5. Designing the Field Report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report.

#### **Practical Record**

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

- 1. Creswell J., 1994: Research Design: Qualitative and Quantitative Approaches 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 Research Tool" in *Qualitative* Methods in Human Geography, eds. J. Eyles and D. Smith, Polity.
- 4. Mukherjee, Neela 1993. Participatory Rural Appraisal: Methodology and Application. Concept Publs. Co., New Delhi.
- 5 Mukherjee, Neela 2002. Participatory Learning and Action: with 100 Field Methods. Concept Publs. Co.,
  - New Delhi
- 6. Robinson A., 1998: "Thinking Straight and Writing That Way", in Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioral Sciences, eds. by F. Pryczak and R. Bruce Pryczak, Publishing: Los Angeles.
- 7. Special Issue on "Doing Fieldwork" *The Geographical Review* 91:1-2 (2001).
- 8. Stoddard R. H., 1982: Field Techniques and Research Methods in Geography, Kendall/Hunt.

## GENERIC ELECTIVES II VI – SEMESTER Geography VI: REGIONAL GEOGRAPHY OF INDIA

#### **Course Outcome**

CO1. Identify the characteristics of size and extent of India
CO2. Understand the classification and characteristics of multipurpose river
CO3. Identify the classification and characteristics of Population density and distribution

CO4. Learn in details with examples power resources of India

CO5. Specify the characteristics of Transportation modes

UNITS No. of Hours

1.	Location, size and extent of India – Relief features- Drainage system –	
	Climate	15
2.	Irrigation – Types, multipurpose river valley projects – DVC, Bhakra- Nangal,	
	Alamatti	10
3.	Population – Size and Growth since 1901, Population Density and	
	Distribution, Literacy, Sex Ratio.	10
4.	Resource Base –Livestock (cattle & fisheries), Power	
	(Coal,& hydroelectricity) Minerals (iron ore and bauxite).	10
5.	Economy – Agriculture (Rice, Wheat, Sugarcane, Tea, Cotton);	
	Industries (Cotton Textile, Iron-Steel, Automobile), Transportation	
	Modes (Road and Rail).	15

- 1. Hussain M., 1992: Geography of India, Tata McGraw Hill Education.
- 2. Mamoria C. B., 1980: Economic and Commercial Geography of India, Shiva Lal Agarwala.
- 3. Miller F. P., Vandome A. F. and McBrewster J., 2009: *Geography of India: Indo-Gangetic Plain, Thar Desert, Major Rivers of India, Climate of India, Geology of India, Alphascript Publishing*
- 4. Nag P. and Sengupta S., 1992: *Geography of India*, Concept Publishing Pichamuthu C. S., 1967: *Physical Geography of India*, National Book Trust.
- 7 Sharma T. C. and Coutinho O., 1997: *Economic and Commercial Geography of India*, Vikas Publishing.
- 8 Singh Gopal, 1976: A Geography of India, Atma Ram.
- 7 Spate O. H. K. and Learmonth A. T. A., 1967: *India and Pakistan: A General and Regional Geography*,

#### **GENERIC ELECTIVES - II**

### VI – SEMESTER Practical VI: COMPUTER MAPPING

UNIT		No. of Hours
5.	Introduction to Computer : Generation of Computers, Hardware and Software Components	20
6.	Computer graphics: Creating Data base in computer, creation of Line, Bar and Pie diagrams. Thematic Maps - Choro chromatic and Schematic Maps	20
7.	GPS - Meaning, Function and its applications.	10
8.	Tour report / Factory visit	10

#### **References:**

1. Singh L.R. : Fundamentals of Practical Geography, Sharadha

Pustaka Bhavan, Alahabad, 2006

2. Dr. M.A. Siddaqui : Introduction to Geographical Information System,

Sharadha Pustaka Bhavan,

Alahabad, 2006

3. Chang : Introduction to GIS, Tata McGraw Hill W,

New Delhi.

## DEPARTMENT OF GEOGRAPHY MODEL QUESTION PAPER FOR CBCS SCHEME B.A GEOGRAPHY

 $(For\ I,\ II,\ III,\ IV,\ V\ AND\ VI\ semesters)$ 

Time: 3 Hours Max. Marks: 70

Part-A	
I. Answer any five of the following questions. Answer should not exceed 50 words	5x2=10
1)	••
2)	••
3)	
4)	
5)	••
6)	
7)	••
Part-B	
II. Answer any Six of the following questions. Answer should not exceed 100 words	6x5=30
8)	••
9)	
10)	•••
11)	•••
12)	•••
13)	•••
14)	•••
15)	•••
Part –C	
III. Answer any Three of the following questions.  3x	10=30
16)	•••
17)	
18)	
19)	
20)	

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