SHRI GURU RAM RAI UNIVERSITY

(Estd. by Govt. of Uttarakhand, vide Shri Guru Ram Rai University Act no. 03 of 2017)



Syllabus of BA/BSc. Geography Effective from Academic Session 2018

B.A./B.Sc. Geography

Core Courses: EXAM STRUCTURE GEOGRAPHY – TOTAL CREDITS

I SEMESTER

Code	Title of Course/Paper	Credit	Ма	rks
	Course, ruper		Internal	External
BGGC101	Physical Geography	04	30	70
BGGL101	Practical Geography	02	30	70
	Total	06	60	140

1. Physical Geography (Core: 4 Credits)

- 1. Physical Geography Definition and Scope, Components of Earth System.
- 2. Lithosphere Internal Structure of Earth based on Seismic Evidence, Plate Tectonics and its Associated Features.
- 3. Fluvial Cycle of Erosion Davis and Penck.
- 4. Atmosphere Heat Balance, Global Circulation Pattern, Tropical Cyclones, Monsoon, Climatic

Classification (Koppen).

5. Hydrosphere – Ocean Bottom Relief Features, Tides and Currents.

- 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. Singh, Savindra: Physical Geography, Prayag Pustak Bhawan, Allahabad.
- 9. Singh, Savindra: BhotikBhoogol(in Hindi), PrayagPustak Bhawan, Allahabad

Practical-I (Core 2 Credits)

- a. Scale-Definition and importance, construction of simple, comparative and diagonal scale. b. Topo sheets- indexing, scale and conventional signs.
- c.Studyandinterpretationofoneinch/1:50000,SurveyofIndiaToposheetswithspecialreferenceto landscape features, drainage characteristics, land use, settlements, transport and other routes.
 - d. landform features based on contours and profile drown on them.

Division of Marks

- a. Lab Work-one guestion from each section with internal choice.
- **b.** Sessional record and viva.

- 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, NewDelhi.
- 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: *PrayogicBhugol*, Rastogi Publishers.
- 6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
- 7. Singh R. L., 1998: *PrayogicBhoogolRooprekha*, Kalyani Publications.
- 8. Steers J. A., 1965: An Introduction to the Study of Map Projections, University of London.

EXAM STRUCTURE GEOGRAPHY – TOTAL CREDITS II SEMESTER

Code	Title of Course/Paper	Credit	Marks	
			Internal	External
BGGC201	Human Geography	04	30	70
BGGL201	Geography Practical	02	30	70
	Total	06	60	140

3. Human Geography (Core, 4 Credits)

- 1. Definition, Nature, Major Subfields, Contemporary Relevance.
- 2. Space and Society: Cultural Regions; Race; Religion and Language
- 3. Population: Population Growth and Demographic Transition Theory.
- 4. World Population Distribution and Composition (Age, Gender and Literacy).
- 5. Settlements: Types and Patterns of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization

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

Practical II (Core 2 Credits)

- a. Maps- Definition, basic concepts and classification, Map composition.
- **b.** Map Projections- classification, properties, choice, and merits and demerits.
- c. Construction of Conical projection with one and two standard parallel, Bonne's, cylindrical equal area, Mercater's, and Polar Zenithal Equal Area map projection.
- d. Study and interpretation of Indian Daily Weather Report Maps/reports of January, June and July.

Division of Marks

- a. Lab Work-One guestion from each section with internal choice.
- b. Sessional record and viva.

- 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: *PrayogicBhugol*, Rastogi Publishers.
- 6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
- 7. Singh R. L., 1998: *PrayogicBhoogolRooprekha*, Kalyani Publications.
- 8. Steers J. A., 1965: An Introduction to the Study of Map Projections, University of London.

Code	Title of Course/Paper	Credit	Marks	
			Internal	External
BGGC301	Geographical Thought	04	30	70
BGGL301	Geography Practical	02	30	70
BGGS301	Geography Skill Enhancement Course (Regional Planning and Development)	04	30	70
	Total	10	90	210

EXAM STRUCTURE GEOGRAPHY – TOTAL CREDITS III SEMESTER

Geographical Thought (Core, 4 Credits)

- $1. \ \, {\rm Definition,\,Nature\,\,and\,\,Scope\,\,of\,\,Geography,\,\,Branches\,\,and\,\,sub\,\,branches\,\,of\,\,Geography\,\,,\,\,Basic\,\,concepts\,\,of}$
- Geography
- Contribution of Greek and Roman Geographers-Ptolemy and Strabo. Arab Geographers.
 Contribution of Geographical knowledge in ancient and medical India, Renaissan in Geography, Discoveries and inventions, Contribution of Varenius and Immanuel Kant
 - 3. German and French School of Geography; Humbodlt ,Ritter,Ratzel, Hattner, Hartshorne ,Blache and

Brunhes

- 4. Anglo-American School of Geography- Davis, EC. Semple, Huntington, Isaiah Bowman, Mackinder, Herbertson, and Stamp.
 - 5. Geography in India (after independence); Recent trends in Geography

Selected Readings:

- 1. Dickenson. R. E. The Makers of Modern Geography, Rutledge and Kegan London
- 2. Freeman . T.W. A Hundred Years of Geography, London.

- 3. Jones and Martin All Possible World A History of Geographical Idias. Odessey, Indianapolis (USA)
- 4. Halt Jensen A. Geography- Its History and Concepts, Harper and Raw London.
- 5. Dixit R.D. Geographical Thought A Contextual History of Ideas .Prentice Hall, New Delhi
- 6. Kaushik S.D. BhaugolikVichardharayen (Hindi) Sahitya Bhawan Pub. Agra.
- 7. Hussain Majid Evolution of Geographical Thought (English And Hindi)Rawat Publication jaipur.
- 8. Taylor. G. Geography in Twentieth Century; London.

9. Jagdish Singh - Bhaugolik Chintan ka Kramvikas (Hindi) Gyanodaya , Gorakhpur

Practical-III (Core 2 Credits)

- a. Primary and secondary data and their sources, methods of primary data collection, classification of statistical data and tabulation.
- b. Frequency curve, histogram and polygon, Measures of Central
 Tendency- Mean, Median, Mode. c. Measures of dispersion- Quartile,
 Standard Deviation and coefficient of Variation.
- d. Coefficient of Correlation- Karl Pearson's and Spearman's methods, Scatter Diagrams.

Division of Marks

a. Lab Work-one question from each section.

- 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: *PrayogicBhugol*, Rastogi Publishers.
- 6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
- 7. Singh R. L., 1998: *PrayogicBhoogolRooprekha*, Kalyani Publications.

8. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.

EXAM STRUCTURE GEOGRAPHY – TOTAL CREDITS I V SEMESTER

Code	Title of Course/Paper	Credit	Marks	
			Internal	External
BGGC401	Environmental Geography	04	30	70
BGGL401	Geography Practical	02	30	70
BGGS401	Geography Skill Enhancement Course (Regional Planning and Development OR Remote Sensing and GPS based Project Report)	04	30	70
	Total	10	90	210

4. Environmental Geography (Core, 4 Credits)

 Environmental Geography: Concepts and Approaches; Ecosystem – Concept and Structure; Ecosystem

Functions.

- 2. Human-Environment Relationship in Equatorial, Desert, Mountain and Coastal Regions.
- 3. Environmental Problems and Management: Air Pollution; Biodiversity Loss; Solid and Liquid Waste.

- 4. Environmental Programmes and Policies: Developed Countries; Developing Countries.
- 5 New Environmental Policy of India; Government Initiatives.

Reading List

- 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

Nations 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 North-western Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh,

India. Advances in Geographical and Environmental Studies, Springer

- 8. Singh, Savindra 2001. *ParyavaranBhugol,* PrayagPustak Bhawan, Allahabad. (in Hindi)
- 9. Teli, BL, 2005, Paryavaraniya Adhayan, College Book Depot, Jaipur

Practical-IV(Core 2 Credits)

- a. Statistical Diagrams- Simple, Compound and Multiple Bar Diagram, Circle diagram, Simple and polyline graph, Hyther graph and Climograph.
- b. Distribution maps- Isopleths, Choropleth and Dot method.
- c. Identification of rock outcrops, bedding planes, determinants of dip.

(Geological cross section drawing)

Note: Lab Work-one question from each section with internal choice (duration three hours)

- 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, NewDelhi.
- 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: *PrayogicBhugol*, Rastogi Publishers.
- 6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
- 7. Singh R. L., 1998: *PrayogicBhoogolRooprekha*, Kalyani Publications.
- 8. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.

Practical V (Core 2 Credits)

- a. Surveying- Meaning, Types and Methods
- b. Prismatic Compass Survey- open and

close traverse. c. Use and handling of GPS.

Division of Marks

- a. Two field survey Exercises -duration Four hours
- b. GPS, Sessional record and viva-voce

Reading List

- 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: *PrayogicBhugol*, Rastogi Publishers.
- 6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
- 7. Singh R. L., 1998: *PrayogicBhoogolRooprekha*, Kalyani Publications.
- 8. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.

Practical-VI Core 2 Credits)

- a. Plane Table Survey- Radiation and
 Intersection Methods. b. Use and handling of
 Indian Clinometers.
- c. GIS and Remote Sensing Definition, Use and Application in Geography
- **Division of Marks** (External &Internal Examiners will be appointed by the university) One field survey exercises with clinometers) (duration four hours-a.20 and b. 10 marks) GIS and Remote Sensing exercise-20 Marks Sessional record and viva-voce- 10+10 marks.

- 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, NewDelhi.
- 3. Robinson A., 1953: *Elements of Cartography*, John Wiley.
- 4. Sharma J. P., 2010: *PrayogicBhugol*, Rastogi Publishers.

Skill Enhancement Course (2 Compulsory Papers):

REGIONAL PLANNING AND DEVELOPMENT (4 CREDITS)

- 1. Concept, Need and Types of regional Planning.
- 2. Regionalization of India for Planning (Agro Ecological Zones).
- 3. Models for Regional Planning: Growth Pole Theory; Core Periphery Model and Growth Foci Concept in Indian Context.
- 4. Backward Regions and Regional Plans- Special Area Development Plans in India; DVC-The Success Story and the Failures; NITI Aayog.

Reading List

- 1. Blij H. J. De, 1971: Geography: Regions and Concepts, John Wiley and Sons.
- 2. ClavalP.I, 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, Massachusetts.
- 8. Peet R., 1999: *Theories of Development*, The Guilford Press, New York.
- 9. UNDP 2001-04: Human Development Report, Oxford University Press.

Or

2. Remote Sensing and GPS based Project Report (Practical) (4 Credits)

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

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 Photogrammetric: With Applications in GIS*, McGraw-Hill.

3. GIS based Project Report (4 Credits)

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

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

Reading List

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) SudurSamvedanevamBhogolikSuchanaPranali, 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.

Or

4. Field Techniques and Survey based Project Report (4 Credits)

- 1. Field Work in Geographical Studies Role, Value and Ethics of Field-Work.
- 2. Defining the Field and Identifying the Case Study Rural / Urban / Physical / Human / Environmental.
- 3. Field Techniques Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant).
- 4. Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with 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 $\it Qualitative$

Methods in Human Geography, eds. J. Eyles and D. Smith, Polity.

Discipline Specific Elective Papers (2 Compulsory Papers)

V SEMESTER

Code	Title of Course/Paper	Credit	Marks	
			Internal	External
BGGC501	Geography of India/ Disaster Management	04	30	70
BGGL501	Geography Practical	02	30	70
BGGS501	Geography Skill Enhancement Course -GIS based Project Report (Practical)	04	30	70
BGGG501	Generic Elective - Disaster Risk Reduction OR World Geography	06	30	70
	Total	16	120	280

1. Geography of India (4 Credits)

- 1. Physical Setting Location, Structure and Relief, Drainage, Climate.
- 2. Population Size and Growth since 1901, Population Distribution, Literacy, Sex Ratio.
- 3. Settlement System Rural Settlement Types and Patterns, Urban Pattern.
- 4. Resource Base Livestock (cattle and fisheries), Power (coal, and hydroelectricity), Minerals (iron ore, petrolium and bauxite).
- 5. Economy Agriculture (Rice, Wheat, Sugarcane, Tea, Cotton); Industries (Cotton Textile, Iron-Steel, Automobile), Transportation Modes (Road and Rail).

- 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*, Alpha script 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*, Methuen.
- 1.Rana, Tejbir Singh, 2015, Diversity of India , R.K. Books, Delhi. OR

Disaster Management (4 Credits)

- 1. Hazards, Risk, Vulnerability and Disasters: Definition and Concepts.
- 2. Disasters in India: (a) Causes, Impact, Distribution and Mapping: Flood, Landslide, Drought.
- 3. Disasters in India: (b) Causes, Impact, Distribution and Mapping: Earthquake, Tsunami and Cyclone.
- 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.

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.

EXAM STRUCTURE GEOGRAPHY – TOTAL CREDITS VI SEMESTER

Code	Title of Course/Paper	Credit	Marks	
			Internal	External
BGGC601	Economic Geography/ Geography of Tourism	04	30	70
BGGL601	Geography Practical	02	30	70
BGGS601	Geography Skill Enhancement Course - GIS based Project Report (Practical) OR Field Techniques and Survey based Project Report (Practical)	04	30	70
BGGG601	Generic Elective - Sustainability and Development OR Geography of the Himalaya	06	30	70
	Total	16	120	280

2. Economic Geography(4 Credits)

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

Information and Communication Technology Industry.

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.

OR

Geography of Tourism (4 Credits)

Concepts, Nature and Scope; Inter-Relationships of Tourism, Recreation and Leisure;
 Geographical

Parameters of Tourism by Robinson.

- 2. Type of Tourism: Nature Tourism, Cultural Tourism, Medical Tourism, Pilgrimage
- 3. Recent Trends of Tourism: International and Regional; Domestic (India); Eco-

Tourism, Sustainable Tourism, Meetings, Incentives, Conventions and Exhibitions (MICE)

4. Impact of Tourism: Economy; Environment; Society

5. Tourism in India: Tourism Infrastructure; Case Studies of Himalaya, Desert and Coastal and Heritage; National Tourism Policy.

Reading List

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. Chapter 2.
- 5. Raj, R. and Nigel, D. (2007) Morpeth Religious Tourism and Pilgrimage Festivals Management: An International perspective by, CABI, Cambridge, USA.
- 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.

Generic Elective (2)

1. Disaster Risk Reduction (6 Credits)

- 1. Disaster; Hazards, Risk, Vulnerability and Disasters: Definition and Concepts.
- 2. Disasters in India: (a) Causes Impact, Distribution and Mapping: Flood and Drought.
- 3. Disasters in India: (b) Causes, Impact, Distribution and Mapping: Earthquake and Cyclone.
- 4. Human induced disasters: Causes, Impact, Distribution and Mapping.
- 5. Disaster Risk Reduction: Mitigation and Preparedness, NDMA and NIDM; Community-Based Disaster Management; Do's and Don'ts During Disasters **Reading List**
- 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.

OR

World sGeography (6 Credits)

- 1. Earth and Solar System; Rotation and Revolution of Earth; Latitude, Longitude and Time.
- 2. Major Landforms, Climates, Soils and Vegetation Zones.
- 3. Major Natural Regions.
- 4. Population Distribution and Growth, Races and Tribes.
- 5. Agriculture (major corps and agricultural regions); Forestry, sheep Rearing and Fishing.
- 6. Minerals, Energy and Water resources and major industries.
- 7. Industries (Iron &Steel, Textiles, Petro-chemicals, Automobiles, Ship building and light industries) 8. Trade and Transport.

2. Sustainability and Development (6 Credits)

- 1. Sustainability: Definition, Components and Sustainability for Development.
- 2. The Millennium Development Goals: National Strategies and International Experiences
- 3. Sustainable Development: Need and examples from different Ecosystems.
- 4. Inclusive Development: Education, Health; Climate Change: The role of higher education in sustainability; The human right to health; Poverty and disease; Sustainable Livelihood Model; Policies and Global Cooperation for Climate Change.

Generic Elective (2)

1. Disaster Risk Reduction (6 Credits)

- 1. Disaster; Hazards, Risk, Vulnerability and Disasters: Definition and Concepts.
- 2. Disasters in India: (a) Causes Impact, Distribution and Mapping: Flood and Drought.
- 3. Disasters in India: (b) Causes, Impact, Distribution and Mapping: Earthquake and Cyclone.
- 4. Human induced disasters: Causes, Impact, Distribution and Mapping.
- 5. Disaster Risk Reduction: Mitigation and Preparedness, NDMA and NIDM; Community-Based Disaster Management; Do's and Don'ts During Disasters **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.

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- 4. Inclusive Development: Education, Health; Climate Change: The role of higher education in sustainability; The human right to health; Poverty and disease; Sustainable Livelihood Model; Policies and Global Cooperation for Climate Change.

5. Sustainable Development Policies and Programmes: Rio+20; Goal-Based Development; Financing for Sustainable Development; Principles of Good Governance; National Environmental Policy, CDM.

- 1. Agyeman, Julian, Robert D. Bullard and Bob Evans (Eds.) (2003) Just Sustainabilities: Development in an Unequal World. London: Earthscan. (Introduction and conclusion.).
- 2. Ayers, Jessica and David Dodman (2010) "Climate change adaptation and development I: the state of the debate". Progress in Development Studies 10 (2): 161-168.
- 3. Baker, Susan (2006) Sustainable Development. Milton Park, Abingdon, Oxon; New York, N.Y.: Routledge. (Chapter 2, "The concept of sustainable development").
- 4. Brosius, Peter (1997) "Endangered forest, endangered people: Environmentalist representations of indigenous knowledge", Human Ecology 25: 47-69.
- 5. Lohman, Larry (2003) "Re-imagining the population debate". Corner House Briefing 28.
- 6. Martínez-Alier, Joan et al (2010) "Sustainable de-growth: Mapping the context, criticisms and future prospects of an emergent paradigm" Ecological Economics 69: 1741-1747.
- 7. Merchant, Carolyn (Ed.) (1994) Ecology. Atlantic Highlands, N.J: Humanities Press. (Introduction, pp 1-25.)
- 8. Robbins, Paul (2004) Political Ecology: A Critical Introduction. Blackwell Publishing

OR

GEOGRAPHY OF

THEHIMALYA

(6 Credits)

- 1. Geo- physical identity; origin of Himalaya and its structure.
- 2. Climate; natural vegetation; drainage
- 3. Demography and Economy Distribution, density and growth of population.
- 4. Economy Agriculture, Industry, Horticulture, Tourism and power projects.
- 5. Geographical account of western, central and eastern Himalaya. Mountain Developing and Policy.

- 1. Lal, J.S.&Moddle, : The Himalaya- Aspect of Change A.D.
- 2. Bose, S.C.: Land and people of the Himalaya.
- 3. Kayastha, S.: The Himalayan Beas Basin.
- 4. Singh, T.V.(ed.): Mountain and Development.
- 5. Singh, O.P.(ed.): The Himalaya Nature, Man & Culture
- 6. Nityanand& Kumar, K.: The Holy Himalaya Geographical Interpretation of Garhwal Himalaya.
- 7. Kharkwal, S.C.: Uttarakhand Physico Culture Complex.
- 8. Maithani, D.D.: Central Himalaya: Ecology, Environmental Resources & Development.
- 9. Rawat, M.S.S. (ed.): Central Himalaya Egyironment Development Vol. I & II.

10. Bhatt H.P. & Bhatt Sangita: Environmental Dimensions of Rural Settlements in the Himalaya in 1993.