A.C.-03.08.2022
Appendix-49

UNIVERSITY OF DELHI

DEPARTMENT: GEOGRAPHY

COURSE NAME: B.A. (Hons)

(SEMESTER – 1)

based on
Undergraduate Curriculum Framework 2022 (UGCF)
(Effective from Academic Year 2022-23)

University of Delhi

List of DSC Papers

Course Title	Nature of the Course	Total Credits	Components			Contents of the course and reference is in
			Lecture	Tutorial	Practical	
Physical Geography	DSC–1	4	3	1	0	**Annexure-I**
Human Geography	DSC- 2	4	3	1	0	
Digital Cartography (Practical)	DSC-3	4	0	0	4	

List of GE Papers

Course Title	Nature of the Course	Total Credits	Components			Contents of the course and reference is in
			Lecture	Tutorial	Practical	
Geography of India	GE-01	4	3	1	0	**Annexure-II**
Spatial Dimensions of Development	GE-02	4	3	1	0	
Geography of Health and WellBeing	GE-03	4	3	1	0	

DSC – 01: PHYSICAL GEOGRAPHY

Credits: **Total – 4**

Marks: **Total - 100**
Attendances – 5
Assignments – 10
Mid-Semester Examinations – 10
End-Semester Examinations – 75

Duration (Hours per week): **Total – 4** (Lecture – 3, Tutorial – 1)

Course Objectives:

- To explain the concept, definition and scope of earth systems.
- To recognize the structure of the Earth and describe its characteristic features.
- To understand the atmospheric composition and structure.

Learning Outcomes:

The students will be able:

- To classify earth into various domains according to its physical features.
- To differentiate between lithosphere, hydrosphere, atmosphere and biosphere, and to understand interrelationship between them.
- To explain the atmospheric composition and structure.
- To assess the impact of anthropogenic activities on earth systems.

Course Contents:

Unit 1. Physical Geography: Definition, Nature, Scope, Earth as a System and its Components
Unit 2. Atmosphere: Composition and Structure, Energy: Insolation and Temperature, Motion in the atmosphere: pressure and circulation
Unit 3. Lithosphere: Earth's Interior, Isostasy, Earth's movement: endogenic including folding and faulting and exogenic forces
Unit 4. Hydrosphere: Hydrological Cycle, Ocean Water Movement – Currents and Tides
Unit 5. Biosphere: Soil and Vegetation – Factors and Distribution

Suggested Readings:

1. Alan H. Strahler and Arthur Strahler (1992). Modern Physical Geography Fourth Edition, John Wiley & Sons, Canada.
2. Barry, R. G., and Chorley, R. J. (2009). Atmosphere, Weather and Climate (9th Edition). Routledge, New York, USA.
3. Christopherson, R. W. and Birkeland, G. H. (2012). Geosystems: An Introduction to Physical Geography (8th edition). Pearson Education, New Jersey, USA.
4. Gupta, L.S. (2000). JalvayuVigyan(Hindi). Hindi Madhyam Karyanvayan Nidishalya, Delhi.
5. Lal, D. S. (2006). JalvayuVigyan (Hindi). PrayagPustakBhavan, Allahabad, India.
6. Sharma, V.K. (2010). Introduction to Process Geomorphology. CRC Press Taylor & Francis Group.
7. Singh, S. (2009). Bhautik Bhugol ka Swaroop (Hindi). Prayag Pustak. Allahabad, India.
8. Tarbuck, E.J., Lutgens, F.K. and Tasa, D. (2012). Earth Science, Thirteenth Edition. Prentice Hall, Delhi
9. Trujillo, A.P., and Thruman, H.V. (2017). Essentials of Oceanography. PHI., New Delhi.

DSC – 02: HUMAN GEOGRAPHY

Credits: **Total – 4**

Marks: **Total - 100**
Attendance – 5
Assignments – 10
Mid-Semester Examinations – 10
End-Semester Examinations – 75

Duration (Hours per week): **Total – 4** (Lecture – 3, Tutorial – 1)

Course Objectives:

1. To understand various dimensions of human geography and cultural landscape.
2. To analyses the population growth and distribution.
3. To understand the relationship between population and resource.

Learning Outcomes:

1. Detailed exposure of contemporary relevance of cultural landscape.
2. In-depth knowledge of space and society of cultural regions.
3. Understanding the settlement pattern and population resource relationship.

Course Contents:

Unit 1. Human Geography: Definition, Scope and Major Themes; Contemporary Relevance, Understanding Cultural Landscape.

Unit 2. Population: World Population Growth – Trends and Patterns, Population Composition (Residence, Literacy and Age).

Unit 3. Space and Society: Cultural Regions, Tribes, Religion and Language.

Unit 4. Settlements: Types of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization.

Unit 5. Human Development – Measurements (HDI and IHDI), Regional Variations and Sustainable Development Goals.

Suggested Readings:

1. Chandna, R.C. (2017). Geography of Population. Kalyani Publishers, Ludhiana, India.
2. Hassan M.I. (2020). Population Geography-A Systematic Exposition. Routledge Taylor and Francis Group, New York.
3. Human Development Reports of United Nations Development Program.
4. Hussain Majid (2021). Human Geography. Rawat Publication.
5. Majid, Hussain (2012). Manav Bhugol. Rawat Publication.
6. Maurya, S.D. (2012). Manav Bhugol. Sharda Pustak Bhawan, Allahabad, India.
7. Patra, P. et. al.(2021). Perspectives of Human Geography. Concept Publications, New Delhi.
8. Rubenstein, J.M. (2008). An Introduction to Human Geography: The Cultural Landscape. Pearson Prentice Hall, NJ.
9. Saroha, J. (2021). Jansankhya Bhugol, Janankiki evam Jansankhya Adhayan. M.K. Books, New Delhi.
10. Singh, S and Saroha, J. (2021). Human and Economic Geography. Pearson Publication.

DSC – 03: DIGITAL CARTOGRAPHY (Practical)

Credits: **Total – 4**

Marks: **Total - 100**
Attendance – 5
Assignments – 10
Mid-Semester Examinations – 10
End-Semester Examinations – 75

Duration (Hours per week): **(Practical-8)**

Course Objectives:

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions digitally.
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes digitally.
3. Better understand the techniques of interpretation of topographical and weather maps through digital cartographic techniques.

Learning Outcome:

This is a practical hands-on course, when the students have completed this course, they are able:

1. To explain how maps work, conceptually and technically and also will be able to understand the science and art of cartography through digital techniques.
2. To recognize the benefits and limitations of some common map projections and their use.
3. To understand and perform interpretation of topographical maps and weather maps.

Course Contents:

Unit 1. Introduction to Cartography

1.1. Maps: Concepts and classification, Coordinate system, Nature and Scope-Analogue and Digital cartography)

1.2. History and evolution of Cartography: Western and Indian perspectives

1.3. Digital Cartography: Basics of Raster and Vector Data

Sub-Unit	Lab Exercise
1.1.	Using online maps for place look-ups, latitude and longitudes, time zones
1.2	Refer to the text for the history and evolution of cartography as listed in the reference list
1.3	Introduction to available GIS software, raster and vector data presentation

Unit 2. Scales

2.1 Scale: Plain, Comparative and Diagonal: Construction and Applications

Sub-Unit	Lab Exercise
2.1.	Construction and applications

Unit 3. Map Projections

3.1. Map Projections: Concept of Datum and Spheroid, Fundamentals of Projections-Classification, Properties, Uses and limitations of Polar Zenithal-Stereographic, Conical projection with two standard parallel and Mercator's Projections. Concept and Use of UTM.

Sub-Unit	Lab Exercise
3.1.	Construction of Polar Zenithal Stereographic, Conical projection with two standard parallel and Mercator's Projections (manual)

3.2.	Digital demonstration of projections

Unit 4. Interpretation of Topographic Maps, Conventional symbols, Cross and Longitudinal Profiles, Identification and Inter-relationships between physical and cultural features in the mountain regions.

Unit 5. Maplayout

5.1. Concept of Map elements in Digital Cartography

Sub-Unit	Lab Exercise
5.1	Map layout preparation with the provided data

Suggested Readings:

1. Cuff J. D. and Mattson M. T. (1982). Thematic Maps: Their Design and Production. Methuen Young Books.
2. Dent B. D., Torguson J. S., and Holder T. W. (2008). Cartography: Thematic Map Design (6th Edition). Mcgraw-Hill Higher Education
3. Gupta K. K. and Tyagi V. C. (1992). Working with Maps. Survey of India, DST, New Delhi.
4. Kraak, M.J. (2010). Cartography: Visualization of Geospatial Data (3rd edition). Pearson Education Ltd., London. UK.
5. Mishra R. P. and Ramesh A. (1989). Fundamentals of Cartography. Concept Publication, New
6. Sharma J. P., 2010: Prayogic Bhugol. Rastogi Publishers, Meerut.
7. Misra, R.P. (2014). Fundamentals of Cartography (Second Revised and Enlarged Edition). Concept Publishing, New Delhi. India.
8. Monkhouse, F. J. and Wilkinson, H. R. (1973). Maps and Diagrams. Methuen.
9. Singh, R.L. and Dutta, P.K. (2012). Prayogatmak Bhugol (Hindi), Central Book Depot, Allahabad.
10. Sharma, J. P. (2010). Prayogic Bhugol (Hindi), Rastogi Publishers, Meerut.

GE – 01: GEOGRAPHY OF INDIA

Credits: **Total – 4**

Marks: **Total - 100**
Attendance – 5
Assignments – 10
Mid-Semester Examinations – 10
End-Semester Examinations – 75

Duration (Hours per week): **Total – 4** (Lecture – 3, Tutorial – 1)

Course Objectives:

1. Various dimensions of the geographical features of India and their spatial distribution.
2. Detailed analysis of economic resources of India.
3. Understanding of regional divisions of India.

Learning Outcome:

1. Detailed exposure to the human and physical features of India.
2. In-depth knowledge of different resource base of India.
3. Understanding soico-cultural base of India.

Course Contents:

Unit 1. Physical Setting – Location, Relief and Structure, Drainage and Climate
Unit 2. Population – Growth, Distribution, Literacy, Sex Ratio and Migration.
Unit 3. Resource Base – Renewable Resources and Diversification of Agriculture.
Unit 4. Economy - Information Technology and Automobile Industry, Modes of Transport.
Unit 5. Key Concerns – Unity in Diversity, Border Issues and Biodiversity Conservation

Suggested Readings:

1. Gopal Krishan (2017). The Vitality of India: A Regional Perspective. Rawat Publication, Jaipur. (Hindi Medium)
2. Khullar, D.R. (2020). India – A Comprehensive Geography. Kalyani Publishers, Ludhiana.
3. Majid, H. (2020). Geography of India. McGraw Hill Education (India) Private Ltd.
4. Mamoria, C. B. and Mishra, J. P. (2021). *Bharat ka Bhugol.* Sahitya Bhawan Publication, Agra.
5. Sharma, T.C. (2013). Economic Geography of India. Rawat Publication, Jaipur.
6. Singh, Gopal (2010). Geography of India. Atma Ram and Sons.
7. Singh, S. and Saroha, J. (2019). *Bharat ka Bhugol*. CL Media (P) Ltd, New Delhi.
8. Singh, S. and Saroha, J. (2019). Geography of India,.CL Media (P) Ltd, New Delhi.
9. Tiwari, R. C. (2019). Bharat ka Bhugol. Pravalika Publication, Allahabad.
10. Tiwari, R. C. (2019). Geography of India. Pravalika Publication, Allahabad.

GE – 02: SPATIAL DIMENSIONS OF DEVELOPMENT

Credits: **Total – 4**

Marks: **Total - 100**
Attendance – 5
Assignments – 10
Mid-Semester Examinations – 10
End-Semester Examinations – 75

Duration (Hours per week): **Total – 4** (Lecture – 3, Tutorial – 1)

Course Objectives:

1. Understand the meaning and concept of Development.
2. Understand the different theories of development.
3. Understand global pattern of development.

Learning Outcomes:

The students will be able:

1. To learn changing concept of development.
2. To learn the human development index.
3. To analyses the different theories of development.

Course Contents:

Unit 1. Concept of Development: Definition and Meaning of Development, Changing Concept of Development (Economic Growth, Modernization, Distributive Justice), Equity-Efficiency Debate, Alternative Development Paradigms.

Unit 2. Indicators of Development: Economic, Social and Environmental

Unit 3. Theories of Development: Myrdal, Hirschman, Rostow, Friedman, Under Development and Dependent Development.

Unit 4. Global Patterns of Development: Economic Groupings (United Nations, World Bank, IMF) and Inter Regional Cooperation (SAARC, ASEAN, European Union)

Unit 5. Human Development: Concept, Indicators, HDI (India and World)

Suggested Readings:

1. Friedmann J. (1966). Regional Development Policy: A Case Study of Venezuela. Cambridge, Mass., MIT.
2. Gore C. (1984). Regions in Question: Space, Development Theory and Regional Policy. London, Methuen.
3. Hirschman A. O. (1958). The Strategy of Economic Development. New Haven, Yale University Press.
4. Murray Warwick E. (2006). Geographies of Globalization. Routledge.
5. Myrdal K. G. (1957). Economic Theory and Underdeveloped Regions. London, Duckworth.
6. Peet R. (1999). Theories of Development. Guilford Press, New York.
7. Pieterse , J.N. (2010). Development Theory. Sage , Los Angeles.
8. Potter R., Conway D., Evans R. and Evans S.L. (2012). Key Concept in Development Geography. SAGE Publications Ltd.
9. Stohr W. B. and Taylor D. R. F. (1981). Development from Above or Below? The Dialectics of Regional Planning in Developing Countries. John Wiley, Chichester.
10. Willis Katie (2011).Theories and Practices of Development. Routledge.

GE – 03: GEOGRAPHY OF HEALTH AND WELLBEING

Credits: **Total – 4**

Marks: **Total - 100**
Attendance – 5
Assignments – 10
Mid-Semester Examinations – 10
End-Semester Examinations – 75

Duration (Hours per week): **Total – 4** (Lecture – 3, Tutorial – 1)

Course Objectives:

1. To understand various dimensions of health geography and its linkages with environment.
2. To familiarize the student with the theoretical foundations and conceptual grounding of unique geography of social well-being.
3. To appreciate the roles of geographic factors in socio-cultural diversity and well –being.
4. To analyses in details the social wellbeing, problems and welfare programmes and policies.

Learning Outcomes:

After studying, students will be able to:

1. Get detailed exposure of health and environment.
2. Get Knowledge of the geography of social well-being and social diversity.
3. Appraise the key concepts of social geography in regional context; geographic factors underlying patterns of social well-being and inclusive development.
4. Explain the social problems and the welfare programs and policies.

Course Contents:

Unit 1. Introduction to the concept of Health Geography, Medical Geography, approaches, nature and scope

Unit 2. Wellness and Wellbeing: Concept, Social wellbeing, indicators and approaches

Unit 3. Environment and Health Interface: Pollution; Climate change and Health

Unit 4. Development and Health interface: Economic activities (Agriculture, Industry, work-place) and Health

Unit 5. Contemporary health challenges and policy implications in India: Lifestyle diseases, communicable diseases, mental health

Suggested Readings:

1. Akhtar Rais (Ed.), (1990). Environment and Health Themes in Medical Geography. Ashish Publishing House, New Delhi
2. Anthony C. Gatrell, Susan J. Elliott, (2014). Geographies of Health. Wiley Pub.
3. E. Banister, (1987). Contemporary Health Issues (Health Sciences). Jones and Bartlett Publishers
4. Helen Hazen, Peter Anthamatten, (2020). An Introduction to the Geography of Health. Routledge
5. Mahajan and Gupta (fourth edition) (2013). Text book of preventive and social medicine. Jaypee Brothers Medical Publishers (P) Ltd.
6. Michael Emch, Elisabeth Dowling Root, Margaret Carrel (2017). Health and Medical Geography,
7. National health Policy-India (2017) [https://www.nhp.gov.in/nhpfiles/national_health_policy_2017.pdf]
8. Paul, L. Knox (1975). Social Well-being: A Spatial Perspective (Theory & Practice in Geography). Oxford University Press
9. Phillips, D.and Verhasselt, Y. (1994). Health and Development. Routledge, London.
10. हरीशकुमारखत्री, स्वास्थ्यभूगोल, कैलाशपुस्तकसदन, भोपाल, 9788189900731