UNIVERSITY OF DELHI

CNC-II/093/1(30)/2023-24/56

Dated: 23.01.2024

NOTIFICATION

Sub: Amendment to Ordinance V

Following addition be made to Appendix-II-A to the Ordinance V (2-A) of the Ordinances of the University;

Add the following:

Syllabi of following programmes of Semester-IV, V and VI of the Department of Geography under Faculty of Social Sciences based on Under Graduate Curriculum Framework -2022 implemented from the Academic Year 2022-23 :

(i) BA (Prog.) with Geography as Major/ Non-Major – Semester-IV

(ii) BA (Prog.) with Geography as Major/ Non-Major – Semester-V

(iii) BA (Prog.) with Geography as Major/ Non-Major – Semester-VI

The credit distribution and the course content of the syllabi is as per ***Annexure-1***

REGISTRAR

ANNEXURE-1

DEPARTMENT OF GEOGRAPHY
SEMESTER IV
Category II
Geography Courses for Undergraduate Programme of study with Geography as one of the Core Disciplines
(B.A. Programmes with Geography as Major discipline)
DSC-07

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
OCEANOGRAPHY	4	3	1	0	Class 12th	NIL

Learning Objectives:

The Learning Objectives of this course are as follows:

- To enable the learner to understand the basics of oceanography.
- To enable the learner to explain the configuration of the ocean bottom
- To enable the learner to discuss ocean water and its unique ecosystem
- To equip the learner to appreciate and elaborate the problems and policies for sustainable oceans
-

Learning Outcomes:

The Learning Outcomes of this course are as follows:

- The students would be able to comprehend and establish the relationship between human action and global ocean conditions. They would be able to explain the ocean as a regulator of global climate.
- Illustrate the dynamic ocean bottom topography and appreciate the circulation of cold and warm Ocean currents.
- Discuss the salinity and temperature distribution of ocean water on a three-dimensional spatial perspective.
- Elaborate the marine ecosystems as well as explain the problems and address the policies to resolve them.

Course Outline:

UNIT 1: Introduction to Oceanography: (8 hrs)

- Significance of Oceanography, Human actions and the Oceans, Challenges to Sustainability of Marine Ecosystems, Role ofSea surface Temperature (SST) as Global Climate Regulator

UNIT 2: Geomorphological Oceanography: (8 hrs)

- Ocean Bottom Topography – Relief ofOcean Floor with Global examples

UNIT 3: Physical and Chemical Oceanography: (9 hrs)

- Properties of Ocean Water: Salinityand Temperature (Horizontal and Vertical Distribution); Oceanic currents

UNIT 4: Biological Oceanography: (10 hrs)

- Marine Ecosystems: Coral Reef, Mangrove, Openand Deep Sea

UNIT 5: Sustainability of Oceans- Problems and Policies: (10 hrs)

- Marine Challenges andManagement, Marine Policy: Integrated Coastal Zone Management (ICZM) with reference to India and SDG 14; Life Below Water

Readings

- Basu S.K. (2003). Hand Book of Oceanography. Global Vision, Delhi.
- Davis, R. J.A. (1996). Oceanography: An Introduction to the Marine Environment. Brown Co, Lowa.
- Garrison, T. (2016). Oceanography: An Invitation to Marine Science. 9th ed, Cengage Learning, Boston.
- Lal. D.S. (2003) Oceanography. Sharada Pustak Bhavan, Allahabad.
- Pinet, P.R. (2014). Invitation to Oceanography. 7th ed, Jones and Barlett Publishers, Burlington.
- Sharma, R. C. and Vatal, M. (2018) Oceanography for Geographers. Surjeet Publications, Delhi.
- Singh, S. (2015). Oceanography. Pravalika Publication, Allahabad,
- Sverdrup K. A. and Armrest, E. V. (2008). An Introduction to the World Ocean. McGraw Hill, Boston.

Readings (Hindi)

- Gautam, A. (2005) Jalwayu Evam Samudra Vigyan. Rastogi Publication, Meeruth.
- Kulshrestha, K.P. (2004). Samudra Vigyan. Kitab Ghar, Kanpur.
- Singh, S. (2015). Samudra Vigyan. Pravalika Publication, Allahabad.
- Tiwari, R. K. (2016). Bhautik Bhugol. Rajsthan Hindi Granth Academy, Jaipur.

DISCIPLINE SPECIFIC CORE COURSE – ECONOMIC GEOGRAPHY (DSC 8)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
ECONOMIC GEOGRAPHY	4	3	1	0	Class 12th	NIL

Learning Objectives:

- To evolve an understanding about the significance of space and time as attributes of human economic activities.
- To comprehend the role of geographical factors in determining the transformation of human economic activities.
- To develop an understanding of historical progression of trends and transformation of Primary, Secondary and Tertiary economic activities.

Learning Outcomes:

- To enable the learner to appreciate the role of geographical parameters in determining various economic activities and to understand the scope of economic geography, differentiating it from classification of economic activities.
- To enable the learner to assess and analyse the role of space and location in pursuit of economic activities.
- To enable the learner to develop the capability of analyzing transformation of economic activities with reference to space, time and diffusion of technology.

Course Outline

UNIT 1: Introduction: **(10 hrs)**

- Nature, scope and concepts and Approaches to EconomicGeography; Classification of Economic activities.

UNIT 2: Locational Factors of Economic Activities: **(9 hrs)**

- Factors affecting location of economic activities in agriculture industry and services; Weber's Theory of IndustrialLocation.

UNIT 3: Transitions and emerging trends in primary and secondary economic activities: **(9 hrs)**

- contemporary agriculture, Agro based Industry; SEZ and Technology Parks.; Pharmaceutical Industry

UNIT 4: Progressions in Tertiary Activities: **(9 hrs)**

- Case study approach to Knowledge basedindustries; IT enabled Services industry; Wellness industry

UNIT 5: Globalization of Economic activities: **(8 hrs)**

- globalization, liberalization, Ecommerce, gig economy (selected case studies)

Readings

- Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
- Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction,Wiley-Blackwell.
- Roy, Prithwish, 2014, Economic Geography, New Central Book Agency.
- Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
- Wheeler J. O., 1998: Economic Geography, Wiley..
- Maurya, S. D., 2018, Economic Geography, Pravalika Publication, Allahabad.
- Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
- Singh, S. and Saroha, J., 2021, Human and Economic Geography, Pearson.
- MacKinnon, D, and Cumbers A., 2007, An Introduction to Economic Geography: Globalization, Uneven Development and Place, Harlow: Pearson Education.
- Mamoria, C. and Joshi, R., 2019, Aarthik Bhugol (Economic Geography), Sahitya Bhawan Publication, Agra. (Hindi Edition).

Category III

B.A. Programmes with Geography as non-Major or Minor discipline

DISCIPLINE SPECIFIC CORE COURSE – ECONOMIC GEOGRAPHY (DSC 4)

DISCIPLINE SPECIFIC CORE COURSE – ECONOMIC GEOGRAPHY (DSC 11)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
ECONOMIC GEOGRAPHY	4	3	1	0	Class 12th	NIL

Learning Objectives:

- To evolve an understanding about the significance of space and time as attributes of human economic activities.
- To comprehend the role of geographical factors in determining the transformation of human economic activities.
- To develop an understanding of historical progression of trends and transformation of Primary, Secondary and Tertiary economic activities.

Learning Outcomes:

- To enable the learner to appreciate the role of geographical parameters in determining various economic activities and to understand the scope of economic geography, differentiating it from classification of economic activities.
- To enable the learner to assess and analyse the role of space and location in pursuit of economic activities.
- To enable the learner to develop the capability of analyzing transformation of economic activities with reference to space, time and diffusion of technology.

Course Outline

UNIT 1: Introduction: (10 hrs)

- Nature, scope and concepts and Approaches to EconomicGeography; Classification of Economic activities.

UNIT 2: Locational Factors of Economic Activities: (9 hrs)

- Factors affecting location of economic activities in agriculture industry and services; Weber's Theory of IndustrialLocation.

UNIT 3: Transitions and emerging trends in primary and secondary economic activities: **(9 hrs)**

- contemporary agriculture, Agro based Industry; SEZ and Technology Parks.; Pharmaceutical Industry

UNIT 4: Progressions in Tertiary Activities: **(9 hrs)**

- Case study approach to Knowledge basedindustries; IT enabled Services industry; Wellness industry

UNIT 5: Globalization of Economic activities: **(8 hrs)**

- globalization, liberalization, Ecommerce, gig economy (selected case studies)

Readings

- Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
- Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction,Wiley-Blackwell.
- Roy, Prithwish, 2014, Economic Geography, New Central Book Agency.
- Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
- Wheeler J. O., 1998: Economic Geography, Wiley..
- Maurya, S. D., 2018, Economic Geography, Pravalika Publication, Allahabad.
- Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
- Singh, S. and Saroha, J., 2021, Human and Economic Geography, Pearson.
- MacKinnon, D, and Cumbers A., 2007, An Introduction to Economic Geography: Globalization, Uneven Development and Place, Harlow: Pearson Education.
- Mamoria, C. and Joshi, R., 2019, Aarthik Bhugol (Economic Geography), Sahitya Bhawan Publication, Agra. (Hindi Edition).

DEPARTMENT OF GEOGRAPHY
SEMESTER-V
Category II
Geography Courses for Undergraduate Programme of study with Geography as one of the Core Disciplines
(B.A. Programmes with Geography as Major discipline)
CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

DISCIPLINE SPECIFIC CORE COURSE – ENVIRONMENT AND ECOLOGY (DSC 9)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
ENVIRONMENT AND ECOLOGY	4	3	1	0	Class 12th	NIL

Learning Objectives:

1. Various dimensions of ecology and ecosystems, their spatial distribution.
2. To learn about the global environmental challenges and management
3. To know about regional environmental challenges.
4. Understanding of environmental governance.

Learning Outcomes:

1. Detailed exposure to the concept of ecology, ecosystem, processes, theories and concepts.
2. In-depth knowledge of anthropogenic interventions and impacts, conservation strategies and planning.
3. Understanding the environmental concerns at global and regional level.
4. Evaluation and achievement of different environmental programs, policies and legislations.

Course Outline:

Unit-1 Introduction: (7 hrs)

- Concept of Environment, Ecology and Ecosystem; Types of Ecology; Concepts of Ecosystem Services; Ecological and Material Footprint; Global Planetary Boundaries.

Unit-2 Ecology and Ecosystem: (9 hrs)

- Species Interactions; Ecological Limiting Factors; Ecosystem: Structure and Functions; Human Adaptation

Unit-3 Global Environmental Challenges and Management: (11 hrs)

- Climate Change,Biodiversity loss, Land degradation and Human health issues

Unit-4 Regional Ecological Issues and Management: (11 hrs)

- Coastal and Marine Ecology: Loss of mangroves and corals, Garbage Patches; Urban Ecology: Waste disposal and Pollution

Unit-5 Programmes and Policies: (7 hrs)

- Environmental Impact Assessment; Global andNational Environment Policy of India

Readings:

- Brewster, E. N. 2010. Climate Change Adaptation: Steps for a Vulnerable Planet, New York, Nova Science.
- Cain, M.L., Bowman, W.D. and Hacker S.D. (2011). Ecology, 2nd Edition, Sinauer Associates Inc.
- Chandna R. C., 2002: *Environmental Geography*, Kalyani, Ludhiana.
- Chapman, J.L.& M.J. Reiss. (1998). Ecology: Principles and Applications. Cambridge Univ. press.
- Cunninghum W. P. and Cunninghum M. A., 2004: *Principals of Environmental Science: Inquiry and Applications*, Tata Macgraw Hill, New Delhi.
- Das, R. C., 1998. The Environmental Divide: The Dilemma of Developing Countries, A.P.H. Pub., New Delhi.
- Freedman, Bill. 1995. Environmental Ecology: The Ecological Effects of Pollution, Disturbance, and Other Stresses, Academic Press. London.
- Global Environment Monitoring UNEP, https://wesr.unep.org/article/global-environment-monitoring
- Global Environmental Outlook Reports UNEP https://www.unep.org/geo/ Intergovernmental Panel on Climate Change IPCC Reports(2021-23) https://www.ipcc.ch/report/ar6/wg2/

DISCIPLINE SPECIFIC CORE COURSE – AGRICULTURAL GEOGRAPHY ANDFOOD SECURITY (DSC 10)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
AGRICULTURAL GEOGRAPHY AND FOOD SECURITY	4	3	1	0	Class 12th	NIL

Learning Objectives:

- To understand the nature and scope of agricultural geography.
- To provide a detailed analysis of landuse- landcover classification by NRSA.
- To enable the learners to appreciate the geographical factors affecting agriculture
- To enable the learner to identify and understand modern agricultural practices.
- To enable the learner to identify and understand the concept and dimensions of food security.

Learning Outcomes:

- A detailed insight into the subfield of agricultural geography.
- An in-depth knowledge of geographical factors affecting agriculture.
- An understanding of models and regionalization of agriculture.
- Knowledge of concepts and dimensions of food security.
- An understanding of challenges, programme and policies related to sustainable agriculture.

Course Outline

UNIT 1: **Concept of Agricultural Geography**: **(7 hrs)**

- Nature and Scope, concept andclassification of landuse- landcover (twenty two fold NRSA).

Unit 2: Geographical Factors affecting Agriculture: (10 hrs)

- Physical, Economic, Technological,Institutional and socio-cultural.

Unit 3: Models, Theories and Regionalization: (10 hrs)

- Whittlesey's classification of Agricultural regions; Agro ecological regions of India

Unit 4: Agricultural Development: (11 hrs)

- Concept and relevance of Sustainable Agriculture, Modern Agricultural Practices (Green Revolution, Organic farming, Precision Agriculture: role of Remote Sensing and GIS modelling, role of Artificial Intelligence)

Unit 5: Food Security: (7 hrs)

- Concept and dimensions, Food security in India: Challenges, Programmes and Policy.

Readings:

- Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
- Grigg, D. (1984): 'An Introduction to Agricultural Geography', Hutchinson Publication, London
- Hussain, M., 2000, Agricultural Geography, Rawat Publications
- Modgal, Suresh, 2017, Food Security of India, National Book Trust, 81-237-7131-2
- Ramaswamy, S. and Surulivel, L., 2017, Food Security in India, MJP Publishers, ISBN: 9788180943386, 8180943380
- Singh, J. and Dhillon, S.S. (1988), "Agricultural Geography", 2nd edition, Tata McGraw-Hill, NewDelhi
- Swaminathan, M.S., 2016, Combating Hunger and Achieving Food Security, Cambridge University Press, 9781107123113
- Symons, L. (1972): 'Agricultural Geography', Bell and Sons, London.
- Tarrant, J.R.(1974): Agricultural Geography, Problems in Modern Geography Series, John Wiley and Sons
- माजिद हुसैन, 2000, कृषि भूगोल, Rawat Publications, 9788170335658

Category III

B.A. Programmes with Geography as non-Major or Minor discipline

SEMESTER-V

DISCIPLINE SPECIFIC CORE COURSE – ENVIRONMENT AND ECOLOGY (DSC 5)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
ENVIRONMENT AND ECOLOGY	4	3	1	0	Class 12th	NIL

Learning Objectives:

5. Various dimensions of ecology and ecosystems, their spatial distribution.
6. To learn about the global environmental challenges and management
7. To know about regional environmental challenges.
8. Understanding of environmental governance.

Learning Outcomes:

5. Detailed exposure to the concept of ecology, ecosystem, processes, theories and concepts.
6. In-depth knowledge of anthropogenic interventions and impacts, conservation strategies and planning.
7. Understanding the environmental concerns at global and regional level.
8. Evaluation and achievement of different environmental programs, policies and legislations.
9.

Course Outline:

Unit-1 Introduction: (7 hrs)

- Concept of Environment, Ecology and Ecosystem; Types of Ecology; Concepts of Ecosystem Services; Ecological and Material Footprint; Global Planetary Boundaries.

Unit-2 Ecology and Ecosystem: (9 hrs)

- Species Interactions; Ecological Limiting Factors; Ecosystem: Structure and Functions; Human Adaptation

Unit-3 Global Environmental Challenges and Management: (11 hrs)

- Climate Change,Biodiversity loss, Land degradation and Human health issues

Unit-4 Regional Ecological Issues and Management: (11 hrs)

- Coastal and Marine Ecology: Loss of mangroves and corals, Garbage Patches; Urban Ecology: Waste disposal and Pollution

Unit-5 Programmes and Policies: (7 hrs)

- Environmental Impact Assessment; Global andNational Environment Policy of India

Readings:

- Brewster, E. N. 2010. Climate Change Adaptation: Steps for a Vulnerable Planet, New York, Nova Science.
- Cain, M.L., Bowman, W.D. and Hacker S.D. (2011). Ecology, 2nd Edition, Sinauer Associates Inc.
- Chandna R. C., 2002: *Environmental Geography*, Kalyani, Ludhiana.
- Chapman, J.L.& M.J. Reiss. (1998). Ecology: Principles and Applications. Cambridge Univ. press.
- Cunninghum W. P. and Cunninghum M. A., 2004: *Principals of Environmental Science: Inquiry and Applications*, Tata Macgraw Hill, New Delhi.
- Das, R. C., 1998. The Environmental Divide: The Dilemma of Developing Countries, A.P.H. Pub., New Delhi.
- Freedman, Bill. 1995. Environmental Ecology: The Ecological Effects of Pollution, Disturbance, and Other Stresses, Academic Press. London.
- Global Environment Monitoring UNEP, https://wesr.unep.org/article/global-environment-monitoring
- Global Environmental Outlook Reports UNEP https://www.unep.org/geo/ Intergovernmental Panel on Climate Change IPCC Reports(2021-23) https://www.ipcc.ch/report/ar6/wg2/

SEMESTER-VI
Category II
Geography Courses for Undergraduate Programme of study with Geography as one of the Core Disciplines
(B.A. Programmes with Geography as Major discipline)
CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

DISCIPLINE SPECIFIC CORE COURSE – REGIONAL GEOGRAPHY OF INDIA (DSC 11)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title& Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
REGIONAL GEOGRAPHYOF INDIA	4	3	1	0	Class 12th	NIL

Learning Objectives:

a. To introduce the regional dimensions of physiography, climate, soils and vegetation of India

b. To show variations in resource base and population dynamics

c. To understand the regionalization of India on the basis of different geographical parameters

Learning Outcomes:

d. After completing this course students will be able to understand the regional diversity of India in terms of physiography, climate, resources and demography

e. Students will be able to understand the basis of regionalization of India based on physiographic, economic and socio-cultural factors.

Course Outline

UNIT 1: Physical Setting: (9 hrs)

- Major Physiographic Divisions, Climate, Drainage Basins (Peninsular and ExtraPeninsular).

UNIT 2: Natural Resources: (9 hrs)

- Soil, Natural Vegetation, Mineral (Iron Ore), and Renewable Energy Resources.

UNIT 3: Population: (9 hrs)

- Growth, Distribution and Density, Population Composition(Sex, Age and Literacy).

UNIT 4: Economy: (9 hrs)

- Agriculture (Rice and Wheat); Industries (Automobile industry and Information Technology), Development of diversified transport network.

UNIT 5: Regionalisation of India: (9 hrs)

- Physiographic (R.L. Singh), Social-cultural (Sopher)and Economic (P.Sen Gupta)

Teaching Plan

Unit 1: 9 hours

Unit 2: 9 hours

Unit 3: 9 hours

Unit 4: 9 hours

Unit 5: 9 hours

Total : 45 hours

Essential Readings

- Singh, R.L. (ed.) (1971) India: A Regional Geography, National Geographical Society ofIndia, Varanasi.
- Sopher, David E. (1980) An Exploration of India: Geographical Perspectives on Societyand Culture, Cornell University Press, Ithaca, New York.
- Gupta, P.Sen and Galina Sdasyuk (1967) Economic Regionalisation of India: Problemsand Approaches, Census of India (1961); Monography Series – 1(8).

Suggested Readings

- Saroha, J and Singh, S. (2022) Geography of India, Pearson India Education Services, Noida.
- Sharma, T.C. (2013) Economic Geography of India, Rawat Publication, Jaipur.
- Majid, H. (2020) Geography of India, McGraw Hill Education (India) Private Ltd.
- Tiwari, R. C. (2019) Geography of India. Pravalika Publication, Allahabad.
- Khullar, D.R. (2020) India – A Comprehensive Geography, Kalyani Publishers, Ludhiana.
- Gopal Krishan (2017) The Vitality of India: A Regional Perspective, Rawat

Publication,Jaipur.

- Singh, Gopal (2010) Geography of India, Atma Ram and Sons.

Hindi

- Tiwari, R. C. (2019) *Bharat ka Bhugol*, Pravalika Publication, Allahabad.
- Singh, S. and Saroha, J. (2019) *Bharat ka Bhugol*, CL Media (P) Ltd, New Delhi.
- Mamoria, C. B. and Mishra, J. P. (2021) *Bharat ka Bhugol,* Sahitya Bhawan Publication,Agra.

DISCIPLINE SPECIFIC CORE COURSE – EVOLUTION OF GEOGRAPHICAL THOUGHT (DSC 12)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
EVOLUTION OF GEOGRAPHICAL THOUGHT	4	3	1	0	Class 12th	NIL

Learning Objectives:

- The course aims to present an overview of the evolution of the discipline.
- The course will introduce students to the multi paradigmic nature of geography as adiscipline, key debates and emergence of modern geography

Learning Outcomes:

- On transacting this core course the students will be able to grasp the uniquedisciplinary focus of Geography
- Students will be able to identify the key debates that have shaped the subject
- Students will be well acquainted with the changing paradigms in Geography and theemergence of modern geography

Course Outline

Unit-1: Pre-Modern: Foundations of Geography: (9 hrs)

- Greek and Roman School, Arab School, Contributions of Chinese travellers, Age of Discovery and its Impact.

Unit 2: Paradigms in Geography: (9 hrs)

- Definition of 'Paradigm', major paradigms in geography – Determinism, Possibilism, Areal differentiation, Spatial Organization

Unit-3: Key Debates and Developments in Geography: (9 hrs)

- Geography as idiographic & Nomothetic, Systematic and Particular, General and Regional, Quantitative Revolution, Schaefer-Hartshorne Debate, impact of Darwin's theory

Unit-4: Theories and Models in Geography: **9 hrs)**

- Systems Approach and its relevance in Geography, concepts of place, space, environment, interconnection, scale

Unit -5: Emergence of Modern Geography: (9 hrs)

- Emergence of Radical, Behavioral and Feminist Geography, Evolution of Geographical Thinking and Disciplinary Trends in Germany, France and USA, India

Teaching Plan

Unit 1: 9 hours

Unit 2: 9 hours

Unit 3: 9 hours

Unit 4: 9 hours

Unit 5: 9 hours

Total: 45 hours

Essential Readings

- Holt-Jenson, A. (2011), *Geography: History and Concepts*: *A Students Guide*, Sage.
- Couper, P. (2015). *A Student's Introduction to Geographical Thought: Theories, Philosophies, Methodologies*. SAGE Publications.
- Nayak, Anoop, and Alex Jeffrey (2013). *Geographical thought: An introduction to ideas in human geography*. Routledge, 2013.

Suggested Readings

- Cresswell, Tim. (2013). *Geographic thought : a critical introduction*. Chichester, West Sussex, UK :Wiley-Blackwell
- Arentsen M.,Stam R. and Thuijis R.(2000), *Post-Modern Approaches to Space*, e-book

- Kapur, A. (2002) Indian Geography: Voice of Concern, New Delhi: Concept Publishing Company.
- Dickinson, R.E. (1969), *The Makers of Modern Geography*, Routledge & Kegan Paul,London.
- Dikshit, R.D. (1997), *Geographical Thought: A Contextual History of Ideas*, Prentice Hallof India.
- James, P.E. & G.J. Martin (1981) *All Possible Worlds: A History of Geographical Ideas*,Third Edition, John Wiley and Sons, New York.
- Johnston, R.J. (1997, 2004), *Geography and Geographers: Anglo-American Human Geography Since 1945*, 5th and 6th Ed., Edward Arnold, London.
- Peet, R. (1998), *Modern Geographical Thought*, Blackwell.
- Soja, E.W. (1997), Postmodern Geographies: The Reassertion of Space in Critical Social Theory, Rawat Publishers, Jaipur and New Delhi

Category III

B.A. Programmes with Geography as Non-Major or Minor discipline

SEMESTER-VI

DISCIPLINE SPECIFIC CORE COURSE – REGIONAL GEOGRAPHY OF INDIA (DSC 6)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title& Code	Credits	Credit Distribution of the course			Eligibility Criteria	Prerequisite
		Lecture	Tutorial	Practical/ Practice		
REGIONAL GEOGRAPHYOF INDIA	4	3	1	0	Class 12th	NIL

Learning Objectives:

f. To introduce the regional dimensions of physiography, climate, soils and vegetation of India

g. To show variations in resource base and population dynamics

h. To understand the regionalization of India on the basis of different geographical parameters

Learning Outcomes:

i. After completing this course students will be able to understand the regional diversity of India in terms of physiography, climate, resources and demography

j. Students will be able to understand the basis of regionalization of India based on physiographic, economic and socio cultural factors

Course Outline

UNIT 1: Physical Setting: (9 hrs)

- Major Physiographic Divisions, Climate, Drainage Basins(Peninsular and Extra Peninsular).

UNIT 2: Natural Resources: (9 hrs)

- Soil, Natural Vegetation, Mineral (Iron Ore), and Renewable Energy Resources.

UNIT 3: Population: (9 hrs)

- Growth, Distribution and Density, Population Composition(Sex, Age

and Literacy).

UNIT 4: Economy: (9 hrs)

- Agriculture (Rice and Wheat); Industries (Automobile industry and Information Technology), Development of diversified transport network.

UNIT 5: Regionalisation of India: (9 hrs)

- Physiographic (R.L. Singh), Social-cultural (Sopher)and Economic (P.Sen Gupta)

Teaching Plan

Unit 1: 9 hours

Unit 2: 9 hours

Unit 3: 9 hours

Unit 4: 9 hours

Unit 5: 9 hours

Total : 45 hours

Essential Readings

- Singh, R.L. (ed.) (1971) India: A Regional Geography, National Geographical Society ofIndia, Varanasi.
- Sopher, David E. (1980) An Exploration of India: Geographical Perspectives on Societyand Culture, Cornell University Press, Ithaca, New York.
- Gupta, P.Sen and Galina Sdasyuk (1967) Economic Regionalisation of India: Problemsand Approaches, Census of India (1961); Monography Series – 1(8).

Suggested Readings

- Saroha, J and Singh, S. (2022) Geography of India, Pearson India Education Services,Noida.
- Sharma, T.C. (2013) Economic Geography of India, Rawat Publication, Jaipur.
- Majid, H. (2020) Geography of India, McGraw Hill Education (India) Private Ltd.
- Tiwari, R. C. (2019) Geography of India. Pravalika Publication, Allahabad.
- Khullar, D.R. (2020) India – A Comprehensive Geography, Kalyani Publishers, Ludhiana.
- Gopal Krishan (2017) The Vitality of India: A Regional Perspective, Rawat Publication,Jaipur.
- Singh, Gopal (2010) Geography of India, Atma Ram and Sons.

Hindi

- Tiwari, R. C. (2019) *Bharat ka Bhugol*, Pravalika Publication, Allahabad.
- Singh, S. and Saroha, J. (2019) *Bharat ka Bhugol*, CL Media (P) Ltd, New Delhi.
- Mamoria, C. B. and Mishra, J. P. (2021) *Bharat ka Bhugol,* Sahitya Bhawan Publication,Agra.