

Murshidabad Adarsha Mahavidyalaya

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Islampur

Murshidabad

Pin- 742304 (W.B.)

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Date: ___/___/___



Dept of Geography
Murshidabad Adarsha Mahavidyalaya

1.3.1 List of courses that integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics

Sl. No.	Program Name and Semester	Course Name	Topic in Curriculum related to cross-cutting issues			
			Gender	Environment and Sustainability	Human Values	Professional Ethics
1.	Geography (Honours), 4th sem	GEO/H/CC/10		Environmental Geography		
2.	Geography (Prog.), 4th sem	GEO/G/CC/04		Environmental Geography		
3.	Geography GE (Honours), 4th sem	GEO/H/GE/T/04/B		Sustainable Development		
4.	Geography GE (Prog.), 6th sem	GEO/G/GE/T/02		Sustainable Development		
5.	Honours , 1st sem	AECC		Environmental Studies		
6.	Prog. 2nd sem	AECC		Environmental Studies		
7.						
8.						
9.						
10.						

Indra Kumar Mistry

Principal
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UNIVERSITY OF KALYANI

Syllabus for B.A./B.Sc. (Honours) Course in Geography

According to the
Choice Based Credit System (CBCS)
&
Semester System: I-VI

WITH EFFECT FROM THE ACADEMIC SESSION
2018-2019

1

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COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.A./B.Sc. HONOURS COURSE IN GEOGRAPHY

Semester-wise course structure

(6 Credit: 75 Marks)

SEMESTER-IV				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/08	Core	REGIONAL PLANNING AND DEVELOPMENT	75L+15T	6
GEO/H/CC/T/09	Core	ECONOMIC GEOGRAPHY	75L+15T	6
GEO/H/CC/T/10	Core	ENVIRONMENTAL GEOGRAPHY	60T	4
GEO/H/CC/P/10			60P	2
GEO/H/GE/T/04/A or GEO/H/GE/T/04/B	GE	INDUSTRIAL GEOGRAPHY OR SUSTAINABLE DEVELOPMENT	75L+15T	6
GEO/H/SEC/P/02/A or GEO/H/SEC/P/02/B	SEC	ADVANCE SPATIAL STATISTICAL TECHNIQUES OR FIELD WORK	60P	2
Total		5 courses	-	26
SEMESTER-V				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/11	Core	RESEARCH METHODOLOGY AND FIELD WORK	60T	4
GEO/H/CC/P/11			60P	2
GEO/H/CC/T/12	Core	REMOTE SENSING AND GIS	60T	4
GEO/H/CC/P/12			60P	2
GEO/H/DSE/T/01/A or GEO/H/DSE/T/01/B	DSE	URBAN GEOGRAPHY OR CULTURAL AND SETTLEMENT GEOGRAPHY	75L+15T	6x2=12
GEO/H/DSE/T/02/A or GEO/H/DSE/T/02/B	DSE	POPULATION GEOGRAPHY OR SOCIAL GEOGRAPHY	75L+15T	
Total		4 courses	-	24
SEMESTER-VI				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/13	Core	EVOLUTION OF GEOGRAPHICAL THOUGHTS	75L+15T	6
GEO/H/CC/T/14	Core	DISASTER MANAGEMENT	60T	4
GEO/H/CC/P/14			60P	2
GEO/H/DSE/T/03/A or GEO/H/DSE/T/03/B	DSE	FLUVIAL GEOMORPHOLOGY OR RESOURCE GEOGRAPHY	75L+15T	6x2=12
GEO/H/DSE/T/04/A or GEO/H/DSE/T/04/B	DSE	SOIL AND BIO GEOGRAPHY OR AGRICULTURAL GEOGRAPHY	75L+15T	
Total		4 courses	-	24
Total (All semesters)		26 courses	-	140

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GEO/H/CC/T/10: (Theory): Environmental Geography

4 Credits

1. Environmental Geography: Concept and Scope
2. Perception of environment in different stages of civilization
3. Concept of holistic environment; concept of EIA
4. Ecosystem: concept, structure and functions
5. Environmental pollution and degradation: Land, water and air
6. Environmental issues related to agriculture
7. Urban environmental issues with special reference to waste management
8. Environmental programmes and policies: global (Earth summit, 1992; Montreal and Kyoto protocols), national and local levels.

GEO/H/CC/P/10: (Practical): Environmental Geography

2 Credits

1. Preparation of questionnaire for perception survey on environmental problems
2. Environmental mapping; Quality assessment of soil using field kit: pH and NPK
3. Interpretation of air quality using CPCB/ WBPCB data
4. A project file consisting of two exercise each is to be submitted.

***A Project File of exercises consisting of each theme is to be submitted**

Reference Books:

- Chandna R. C. (2002): Environmental Geography, Kalyani, Ludhiana.
- Cunningham W. P. and Cunningham M. A. (2004): Principals of Environmental Science: Inquiry and Applications, Tata Macgraw Hill, New Delhi.
- Goudie A. (2001): The Nature of the Environment, Blackwell, Oxford.
- Singh, R.B. (Eds.) (2009): Biogeography and Biodiversity. Rawat Publication, Jaipur
- Miller G. T. (2004): Environmental Science: Working with the Earth, Thomson BrooksCole, Singapore.
- MoEF, (2006): National Environmental Policy-2006, Ministry of Environment and Forests, Government of India.
- 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
- Odum, E. P. et al, (2005): Fundamentals of Ecology, Ceneage Learning India.
- Singh S. (1997): Environmental Geography, Prayag Pustak Bhawan. Allahabad.
- UNEP (2007): Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme.
- Singh, R.B. (1998): Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub.

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OR

GEO/H/GE/T/04/B: (Theory): Sustainable Development

6 Credits

1. Sustainable Development: Historical Background, Definition, Components, Limitations
2. Sustainable Regional Development: Needs and significances
3. Inclusive Development: Education and Health
4. Climate change and sustainable development: Policies and global cooperation
5. Poverty and disease; Human right to health; Challenges of Universal Health Coverage
6. Sustainable Development - Policies and Programmes: The proposal for SDGs at Rio+20; Illustrative SDGs; Goal-Based Development
7. Sustainable Development: Financial issues
8. Good Governance for sustainable development
9. National Environmental Policy, Clean development mechanism
10. Sustainable regional resource development and livelihood security

Reference Book:

- Agyeman, Julian, Robert D. Bullard and Bob Evans (Eds.) (2003) Just Sustainabilities: Development in an Unequal World. London: Earthscan. (Introduction and conclusion.)
- 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.
- Baker, Susan (2006) Sustainable Development. Milton Park, Abingdon, Oxon; New York, N.Y.: Routledge. (Chapter 2, "The concept of sustainable development").
- Brosius, Peter (1997) "Endangered forest, endangered people: Environmentalist representations of indigenous knowledge", Human Ecology 25: 47-69.
- Lohman, Larry (2003) "Re-imagining the population debate". Corner House Briefing 28.
- 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.
- Merchant, Carolyn (Ed.) (1994) Ecology. Atlantic Highlands, N.J: Humanities Press. (Introduction, pp 1-25.)
- Osorio, Leonardo et al (2005) "Debates on sustainable development: towards a holistic view of reality". Environment, Development and Sustainability 7: 501-518.
- Robbins, Paul (2004) Political Ecology: A Critical Introduction. Blackwell Publishing.
- Singh, R.B. (Eds.) (2001) Urban Sustainability in the Context of Global Change, Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.

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COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.A. GENERAL/ PROGRAM COURSE IN GEOGRAPHY

Semester-wise course structure

(6 Credit: 75 Marks)

SEMESTER-IV				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/CC/T/04	Core	ENVIRONMENTAL GEOGRAPHY AND FIELD WORK	60L	4
GEO/G/CC/P/04			60P	2
-	Core	As to be offered by other departments	-	6
-	Language Core	Core Lang-2-2	-	6
(GEO/G/SEC/P/02/A or GEO/G/SEC/P/02/B)	SEC	ADVANCE SPATIAL STATISTICAL TECHNIQUES <u>OR</u> FIELD WORK	60P	2
Total		4 courses	-	20
SEMESTER-V				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/DSE/T/01/A or GEO/G/DSE/T/01/B	DSE	Geography of India or Economic Geography	75L+15T	6
-	DSE	As to be offered by other departments	-	6
GEO/G/GE/T/01	GE (Any discipline other than discipline 1 and 2)	Disaster Management	75L+15T	6
(GEO/G/SEC/P/03/A or GEO/G/SEC/P/03/B)	SEC	FIELD TECHNIQUES AND SURVEY BASED PROJECT REPORT <u>OR</u> COLLECTION, MAPPING AND INTERPRETATION OF CLIMATIC DATA	60P	2
Total		4 courses	-	20
SEMESTER-VI				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/DSE/T/02/A or GEO/G/DSE/T/02/B	DSE	DISASTER MANAGEMENT <u>OR</u> GEOGRAPHY OF TOURISM	75L+15T	6
-	DSE	As to be offered by other departments	-	6
GEO/G/GE/T/02	GE (Any discipline other than discipline 1 and 2)	Sustainable Development	75L+15T	6
(GEO/G/SEC/P/04/A or GEO/G/SEC/P/04/B)	SEC	COLLECTION, MAPPING AND INTERPRETATION OF PEDOLOGICAL DATA <u>OR</u> ROCKS AND MINERALS AND THEIR MEGASCOPIC IDENTIFICATION	60P	2
Total		4 courses	-	20
Total (All semesters)		24 courses	-	120

N.B.: Core Course (CC) in Geography of Semester I, II, III & IV may be offered as GE Papers for other subjects (both Hons. & General/ Prog. Course).

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B.A. / B.Sc. (General/ Program) Course in Geography

SEMESTER-IV

CC/04: Environmental Geography and Field Work

6 Credits

CORE COURSE (CC):

GEO/G/CC/T/04: (Theory): Environmental Geography

4 Credits

1. Concepts and approaches of Environmental Geography
2. Concept, Structure and Functions of Ecosystem
3. Definition of Biosphere, Meaning of Ecology, Ecotone, Habitat, Community, Ecological Niche, Biotopics and Biomes
4. Environmental Problems and Management: Air and Water Pollution
5. Environmental Programmes and Policies: MAB
6. Wetlands: Ramsar Sites in India
7. Human-Environment Relationship in Mountain and Coastal Regions

GEO/G/CC/P/04: (Practical): Field Work

2 Credits

1. Preparation of Survey Schedule or Questionnaire for Air Pollution and Health Perception Survey
2. Mapping of Wetlands from Topographical Sheet
3. Mapping of Forest from Topographical Sheet

Reference Books:

- Casper J.K. (2010): Changing Ecosystems: Effects of Global Warming. Infobase Pub. New York.
- Hudson, T. (2011): Living with Earth: An Introduction to Environmental Geology, PHI Learning Private Limited, New Delhi.
- Miller, G.T. (2007): Living in the Environment: Principles, Connections, and Solutions, Brooks/ Cole Cengage Learning, Belmont.
- Singh, R.B. (1993): Environmental Geography, Heritage Publishers, New Delhi.
- UNEP (2007) Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme. University Press, Cambridge.
- Wright R. T. and Boorse, D. F. (2010): Toward a Sustainable Future, PHI Learning Pvt Ltd, New Delhi.
- 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

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Semester-wise course structure

(6 Credit: 75 Marks)

SEMESTER-I				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/01	Core	GEOTECTONICS AND GEOMORPHOLOGY	75L+15T	6
GEO/H/CC/T/02	Core	CARTOGRAPHIC TECHNIQUES AND GEOLOGICAL MAP STUDY	60T	4
GEO/H/CC/P/02			60P	2
GEO/H/GE/T/01/A or GEO/H/GE/T/01/B	GE	DISASTER MANAGEMENT OR GEOGRAPHY OF TOURISM	75L+15T	6
-	AECC	Environmental studies	-	2
Total		4 courses	-	20
SEMESTER-II				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/03	Core	HUMAN GEOGRAPHY	75L+15T	6
GEO/H/CC/T/04	Core	CARTOGRAMS, SURVEY AND THEMATIC MAPPING	60T	4
GEO/H/CC/P/04			60P	2
GEO/H/GE/T/02/A or GEO/H/GE/T/02/B	GE	GEOSPATIAL TECHNOLOGY OR REGIONAL DEVELOPMENT	75L+15T	6
-	AECC	Communicative English/ MIL	-	2
Total		4 courses	-	20
SEMESTER-III				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/05	Core	CLIMATOLOGY	75L+15T	6
GEO/H/CC/T/06	Core	STATISTICAL METHODS IN GEOGRAPHY	60T	4
GEO/H/CC/P/06			60P	2
GEO/H/CC/T/07	Core	GEOGRAPHY OF INDIA	75L+15T	6
GEO/H/GE/T/03/A or GEO/H/GE/T/03/B	GE	CLIMATE CHANGE: VULNERABILITY AND ADAPTATION OR RURAL DEVELOPMENT	75L+15T	6
GEO/H/SEC/P/01/A or GEO/H/SEC/P/01/B	SEC	COMPUTER BASIC AND COMPUTER APPLICATIONS OR REMOTE SENSING	60P	2
Total		5 courses	-	26



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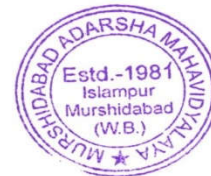
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**COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.A. GENERAL/
PROGRAM COURSE IN GEOGRAPHY**

Semester-wise course structure

(6 Credit: 75 Marks)

SEMESTER-I				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/CC/T/01	Core	GEOTECTONICS AND GEOMORPHOLOGY AND SCALE AND CARTOGRAPHY	60L	4
GEO/G/CC/P/01			60P	2
-	Core	As to be offered by other departments	-	6
-	Language Core	Lang 1-1	-	6
-	AECC	Environmental studies	-	2
Total		4 courses	-	20
SEMESTER-II				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/CC/T/02	Core	CLIMATOLOGY, SOIL AND BIOGEOGRAPHY AND SURVEYING AND LEVELLING	60L	4
GEO/G/CC/P/02			60P	2
-	Core	As to be offered by other departments	-	6
-	Language Core	Lang 2-1	-	6
-	AECC	Communicative English/ MIL	-	2
Total		4 courses	-	20
SEMESTER-III				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/CC/T/03	Core	HUMAN GEOGRAPHY AND MAP PROJECTION AND MAP INTERPRETATION	60L	4
GEO/G/CC/P/03			60P	2
-	Core	As to be offered by other departments	-	6
-	Core	Core Lang 1-2	-	6
(GEO/G/SEC/P/01/A or GEO/G/SEC/P/01/B)	SEC	COMPUTER BASICS AND COMPUTER APPLICATIONS OR REMOTE SENSING	60P	2
Total		4 courses	-	20



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ABILITY ENHANCEMENT COMPULSORY COURSE (AECC 2) ENVIRONMENTAL STUDIES

Unit 1: Introduction to Environmental studies

Multidisciplinary nature of environmental studies; Scope and importance; Concept of sustainability and sustainable development.

Unit 2: Ecosystems

What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:

- Forest ecosystem
- Grassland ecosystem
- Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 3: Natural Resources : Renewable and Non-renewable Resources

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Unit 4: Biodiversity and Conservation

- Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots.
- India as a mega-biodiversity nation; Endangered and endemic species of India.
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

Unit 5: Environmental Pollution

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution.
- Nuclear hazards and human health risks.
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies.

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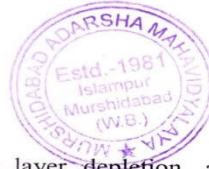
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Unit 6: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture.
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

Unit 7: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

Unit 8: Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

Suggested Readings:

1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
2. Gadgil, M., & Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
4. Gleick, P. H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. Principles of Conservation Biology. Sunderland: Sinauer Associates, 2006.
6. Grumbine, R. Edward, and Pandit, M. K. 2013. Threats from India's Himalaya dams. Science, 339: 36-37.
7. McCully, P. 1996. Rivers no more: the environmental effects of dams (pp. 29-64). Zed Books.
8. McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
9. Odum, E. P., Odum, H. T. & Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
10. Pepper, I. L., Gerba, C. P. & Brusseau, M. L. 2011. Environmental and Pollution Science. Academic Press.

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1.3.1 List of courses that integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics

Sl. No.	Program Name and Semester	Course Name	Topic in Curriculum related to cross-cutting issues			
			Gender	Environment and Sustainability	Human Values	Professional Ethics
1.	Geography (Honours), 4th sem	GEO/H/CC/10		Environmental Geography		
2.	Geography (Prog.), 4th sem	GEO/G/CC/04		Environmental Geography		
3.	Geography GE (Honours), 4th sem	GEO/H/GE/T/04/B		Sustainable Development		
4.	Geography GE (Prog.), 6th sem	GEO/G/GE/T/02		Sustainable Development		
5.	Honours, 1st sem	AECC		Environmental Studies		
6.	Prog. 2nd sem	AECC		Environmental Studies		
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Islampur

Murshidabad

Pin- 742304 (W.B.)

Memo No: MAM / /

Date: ___/___/___

COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.A./B.Sc. HONOURS COURSE IN GEOGRAPHY

Semester-wise course structure

(6 Credit: 75 Marks)

SEMESTER-IV				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/08	Core	REGIONAL PLANNING AND DEVELOPMENT	75L+15T	6
GEO/H/CC/T/09	Core	ECONOMIC GEOGRAPHY	75L+15T	6
GEO/H/CC/T/10	Core	ENVIRONMENTAL GEOGRAPHY	60T	4
GEO/H/CC/P/10			60P	2
GEO/H/GE/T/04/A or GEO/H/GE/T/04/B	GE	INDUSTRIAL GEOGRAPHY OR SUSTAINABLE DEVELOPMENT	75L+15T	6
GEO/H/SEC/P/02/A or GEO/H/SEC/P/02/B	SEC.	ADVANCE SPATIAL STATISTICAL TECHNIQUES OR FIELD WORK	60P	2
Total		5 courses	-	26
SEMESTER-V				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/11	Core.	RESEARCH METHODOLOGY AND FIELD WORK	60T	4
GEO/H/CC/P/11			60P	2
GEO/H/CC/T/12	Core.	REMOTE SENSING AND GIS	60T	4
GEO/H/CC/P/12			60P	2
GEO/H/DSE/T/01/A or GEO/H/DSE/T/01/B	DSE.	URBAN GEOGRAPHY OR CULTURAL AND SETTLEMENT GEOGRAPHY	75L+15T	6x2=12
GEO/H/DSE/T/02/A or GEO/H/DSE/T/02/B	DSE	POPULATION GEOGRAPHY OR SOCIAL GEOGRAPHY	75L+15T	
Total		4 courses	-	24
SEMESTER-VI				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/13	Core	EVOLUTION OF GEOGRAPHICAL THOUGHTS	75L+15T	6
GEO/H/CC/T/14	Core	DISASTER MANAGEMENT	60T	4
GEO/H/CC/P/14			60P	2
GEO/H/DSE/T/03/A or GEO/H/DSE/T/03/B	DSE.	FLUVIAL GEOMORPHOLOGY OR RESOURCE GEOGRAPHY	75L+15T	6x2=12
GEO/H/DSE/T/04/A or GEO/H/DSE/T/04/B	DSE	SOIL AND BIO GEOGRAPHY OR AGRICULTURAL GEOGRAPHY	75L+15T	
Total		4 courses	-	24
Total (All semesters)		26 courses	-	140

Indra Kumar Mishra

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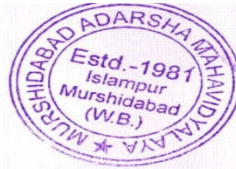
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GEO/H/CC/T/10: (Theory): Environmental Geography

4 Credits

1. Environmental Geography: Concept and Scope
2. Perception of environment in different stages of civilization
3. Concept of holistic environment; concept of EIA
4. Ecosystem: concept, structure and functions
5. Environmental pollution and degradation: Land, water and air
6. Environmental issues related to agriculture
7. Urban environmental issues with special reference to waste management
8. Environmental programmes and policies: global (Earth summit, 1992; Montreal and Kyoto protocols), national and local levels.

GEO/H/CC/P/10: (Practical): Environmental Geography

2 Credits

1. Preparation of questionnaire for perception survey on environmental problems
2. Environmental mapping; Quality assessment of soil using field kit: pH and NPK
3. Interpretation of air quality using CPCB/ WBPCB data
4. A project file consisting of two exercise each is to be submitted.

***A Project File of exercises consisting of each theme is to be submitted**

Reference Books:

- Chandna R. C. (2002): Environmental Geography, Kalyani, Ludhiana.
- Cunningham W. P. and Cunningham M. A. (2004): Principals of Environmental Science: Inquiry and Applications, Tata Macgraw Hill, New Delhi.
- Goudie A. (2001): The Nature of the Environment, Blackwell, Oxford.
- Singh, R.B. (Eds.) (2009): Biogeography and Biodiversity. Rawat Publication, Jaipur
- Miller G. T. (2004): Environmental Science: Working with the Earth, Thomson BrooksCole, Singapore.
- MoEF, (2006): National Environmental Policy-2006, Ministry of Environment and Forests, Government of India.
- 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
- Odum, E. P. et al, (2005): Fundamentals of Ecology, Ceneage Learning India.
- Singh S. (1997): Environmental Geography, Prayag Pustak Bhawan. Allahabad.
- UNEP (2007): Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme.
- Singh, R.B. (1998): Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub.

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OR

GEO/H/GE/T/04/B: (Theory): Sustainable Development

6 Credits

1. Sustainable Development: Historical Background, Definition, Components, Limitations
2. Sustainable Regional Development: Needs and significances
3. Inclusive Development: Education and Health
4. Climate change and sustainable development: Policies and global cooperation
5. Poverty and disease; Human right to health; Challenges of Universal Health Coverage
6. Sustainable Development - Policies and Programmes: The proposal for SDGs at Rio+20; Illustrative SDGs; Goal-Based Development
7. Sustainable Development: Financial issues
8. Good Governance for sustainable development
9. National Environmental Policy, Clean development mechanism
10. Sustainable regional resource development and livelihood security

Reference Book:

- Agyeman, Julian, Robert D. Bullard and Bob Evans (Eds.) (2003) *Just Sustainabilities: Development in an Unequal World*. London: Earthscan. (Introduction and conclusion).
- 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.
- Baker, Susan (2006) *Sustainable Development*. Milton Park, Abingdon, Oxon; New York, N.Y.: Routledge. (Chapter 2, "The concept of sustainable development").
- Brosius, Peter (1997) "Endangered forest, endangered people: Environmentalist representations of indigenous knowledge". *Human Ecology* 25: 47-69.
- Lohman, Larry (2003) "Re-imagining the population debate". *Corner House Briefing* 28.
- 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.
- Merchant, Carolyn (Ed.) (1994) *Ecology*. Atlantic Highlands, NJ: Humanities Press. (Introduction, pp 1-25.)
- Osorio, Leonardo et al (2005) "Debates on sustainable development: towards a holistic view of reality". *Environment, Development and Sustainability* 7: 501-518.
- Robbins, Paul (2004) *Political Ecology: A Critical Introduction*. Blackwell Publishing.
- Singh, R.B. (Eds.) (2001) *Urban Sustainability in the Context of Global Change*. Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.

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COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.A. GENERAL / PROGRAM COURSE IN GEOGRAPHY

Semester-wise course structure

(6 Credit: 75 Marks)

SEMESTER-IV				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/CC/T/04	Core	ENVIRONMENTAL GEOGRAPHY AND FIELD WORK	60L	4
GEO/G/CC/P/04			60P	2
-	Core	As to be offered by other departments	-	6
-	Language Core	Core:Lang2-2	-	6
(GEO/G/SEC/P/02/A or GEO/G/SEC/P/02/B)	SEC	ADVANCE SPATIAL STATISTICAL TECHNIQUES OR FIELD WORK	60P	2
Total		4 courses		20
SEMESTER-V				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/DSE/T/01/A or GEO/G/DSE/T/01/B	DSE	Geography of India or Economic Geography	75L+15T	6
-	DSE	As to be offered by other departments	-	6
GEO/G/GE/T/01	GE (Any discipline other than discipline 1 and 2)	Disaster Management	75L+15T	6
(GEO/G/SEC/P/03/A or GEO/G/SEC/P/03/B)	SEC	FIELD TECHNIQUES AND SURVEY BASED PROJECT REPORT OR COLLECTION, MAPPING AND INTERPRETATION OF CLIMATIC DATA	60P	2
Total		4 courses		20
SEMESTER-VI				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/G/DSE/T/02/A or GEO/G/DSE/T/02/B	DSE	DISASTER MANAGEMENT OR GEOGRAPHY OF TOURISM	75L+15T	6
-	DSE	As to be offered by other departments	-	6
GEO/G/GE/T/02	GE (Any discipline other than discipline 1 and 2)	Sustainable Development	75L+15T	6
(GEO/G/SEC/P/04/A or GEO/G/SEC/P/04/B)	SEC	COLLECTION, MAPPING AND INTERPRETATION OF PEDOLOGICAL DATA OR ROCKS AND MINERALS AND THEIR MEGASCOPIC IDENTIFICATION	60P	2
Total		4 courses		20
Total (All semesters)		24 courses		120

N.B.: Core Course (CC) in Geography of Semester I, II, III & IV may be offered as GE Papers for other subjects (both Hons. & General/Prog. Course).

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B.A. / B.Sc. (General/ Program) Course in Geography

SEMESTER-IV

CC/04: Environmental Geography and Field Work

6 Credits

CORE COURSE (CC):

GEO/G/CC/T/04: (Theory): Environmental Geography

4 Credits

1. Concepts and approaches of Environmental Geography
2. Concept, Structure and Functions of Ecosystem
3. Definition of Biosphere, Meaning of Ecology, Ecotone, Habitat, Community, Ecological Niche, Biotopics and Biomes
4. Environmental Problems and Management: Air and Water Pollution
5. Environmental Programmes and Policies: MAB
6. Wetlands: Ramsar Sites in India
7. Human-Environment Relationship in Mountain and Coastal Regions

GEO/G/CC/P/04: (Practical): Field Work

2 Credits

1. Preparation of Survey Schedule or Questionnaire for Air Pollution and Health Perception Survey
2. Mapping of Wetlands from Topographical Sheet
3. Mapping of Forest from Topographical Sheet

Reference Books:

- Casper J.K. (2010): Changing Ecosystems: Effects of Global Warming, Infobase Pub. New York.
- Hudson, T. (2011): Living with Earth: An Introduction to Environmental Geology, PHI Learning Private Limited, New Delhi.
- Miller, G.T. (2007): Living in the Environment: Principles, Connections, and Solutions, Brooks/Cole/Cengage Learning, Belmont.
- Singh, R.B. (1993): Environmental Geography, Heritage Publishers, New Delhi.
- UNEP (2007): Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme, University Press, Cambridge.
- Wright R. T. and Boorse, D. F. (2010): Toward a Sustainable Future, PHI Learning Pvt Ltd, New Delhi.
- 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

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GE/02: Sustainable Development

6 Credits

GEO/G/GE/T/02: (Theory): Sustainable Development

6 Credits

1. Sustainable Development: Historical Background, Definition, Components, Limitations
2. Sustainable Regional Development: Need and examples from different Ecosystems
3. Inclusive Development: Education and Health
4. Climate change and sustainable development: Policies and global cooperation
5. Poverty and disease; Human right to health; Challenges of Universal Health Coverage
6. Sustainable Development Policies and Programmes: The proposal for SDGs at Rio+20; Illustrative SDGs; Goal-Based Development
7. Sustainable Development: Financial issues
8. Good Governance for sustainable development
9. National Environmental Policy, Clean development mechanism
10. Sustainable regional resource development and livelihood security

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