



छत्रपति शाहूजी महाराज विश्वविद्यालय, कानपुर
CHHATRAPATISHAHUJIMAHARAJUNIVERSITY, KANPUR
(पूर्ववर्ती कानपुर विश्वविद्यालय कानपुर)
Formerly Kanpur University, Kanpur 208024

अकादमिक कार्यालय
Academic Office

Email: dean_acad@csjmu.ac.in

पत्रांक : सीएसजेएमयू/अकादमिक/38/2025

दिनांक: 27/02/2025

**List of minor electives to be run in affiliated colleges in PG programs
(as per NEP) - Revised**

S. No.	Subject	Minor elective paper	Code	Semester
1.	Botany	Biodiversity and Environmental Pollution*	B040808T	2
2.	Chemistry	Environmental Chemistry*	B020808T	2
3.	Commerce	Advanced Corporate Accounting And Reporting	C010804T	2
		Consumer Behaviour and Marketing Research	C010805T	
		Talent Management	C010806T	
4.	Defence and Strategic Management	Economic Aspects of War	A120804T	2
		Evolution and Development of Indian Art of War	A120805T	
5.	Drawing & Painting	All elective papers of 2 nd semester	-	2
6.	Economics	Agriculture Economics	A080803T	2
		Indian Public Finance	A080806T	2
7.	Education	Environmental Education	E010804T	2
8.	English	1. Linguistics and ELT	A040703T	1
		2. Colonial and Post-Colonial Literature	A040802T	2
		3. Translation and Folk Literature	A040804T	2
9.	Geography	Disaster Management	A110804TN	2
		Social Geography	A110805TN	2
		Political Geography	A110806TN	2
10	Hindi	Media Writing	A010803T	2
		Shodhatmak lekhan	A010806T	
		Bhasha Pradyogiki	A010805T	
11	History	History of Modern India Political And Administrative aspects: 1740-1857	A050804T	2

13	Maths	Introductory Statistical Methods	B030809T	2
14	Philosophy	Socio-Political Philosophy	A100805T	2
15	PoliticalScience	Indian Foreign Policy & all other papers of 2 nd semester	(A060804T) And all others	2
16	Sanskrit	Vedic Sanskrit and Environment*	A020808T	2
17	Sociology	Rural Sociology	A070804T	2
		Urban Sociology	A070805T	
		Social Psychology	A070806T	
		Sociology of Environment*	A070808T	
18	Statistics	Demography	B060805T	2
19	Urdu	Urdu Fiction	A030901T	1 st and 2 nd (shall be offered in Both semester)
20	Zoology	Sericulture	B050805T	2

Note:

1. For all other subjects not mentioned in the list, all the elective papers offered in 2nd semester for that subject, may be offered as minor electives for PG students of other faculty.
2. The syllabus for some new papers declared as minor electives for being opted by students of other faculty are marked with * and are enclosed herewith.


Dean (Academics)

Copy to:

1. VC Office
2. P.A. to Registrar
3. Convener and all members of BoS
4. Office Copy

MA/MSc 1st Year, Sem. II
Course IV (A)
(Theory)

Program/Class: MA	Year: First	Semester: Second
Subject: Geography		
Course Code: A110804TN	Course Title: DISASTER MANAGEMENT	
<p>Course Learning Outcomes :- On completion of this course, learners will be able to:</p> <ul style="list-style-type: none"> ● Understand the fundamentals of disaster risk reduction, emergency response, and recovery processes. ● Analyse vulnerabilities and hazards to develop effective disaster preparedness and mitigation strategies. ● Evaluate the impact of disasters on communities and environments to improve resilience and adaptation measures. ● Apply principles of disaster management in planning, policy-making, and community engagement to reduce disaster risks. 		
Credits: 4	Core Compulsory	
Max. Marks: 25(Internal) +75(External)	Min. Passing Marks:33 (Minimum 25 Marks in External)	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
I	Disasters: Definition and Concept, Types of Environmental Hazards and Disasters,	8
II	Man Induced hazards and Disaster Earthquake, Tsunami, Landslides, Cyclones, Floods, Drought, Desertification and its Distribution & Mapping.	11
III	Man-made Disasters: Causes, Impact, Distribution and Mapping, Response and Mitigation to Disasters. Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-based Disaster Management; Do's and Don'ts During and Post Disasters.	14
IV	Harnessing Information and Technology: Application of G.I.S., G.P.S. and Remote Sensing in Disaster Management. National Disaster Management Plan	12
Suggested Readings :-		
<ol style="list-style-type: none"> 1. Government of India. (2011). Disaster Management in India. Delhi, India: Ministry of Home Affairs. 2. Singh, Savendra (2019) Pryavaran Bhugol, Pravalika Publication, Allahabad 3. Kapur, A. (2010). Vulnerable India: A Geographical Study of Disasters. Delhi, India: Sage Publication. 4. Singh, Savendra (2019) Apada Prabandhan, Pravalika Publication, Allahabad. 5. Ramkumar, M. (2009). Geological Hazards: Causes, Consequences and Methods of Containment. New Delhi, India: New India Publishing Agency. 6. Climate Change: Understanding Climate Change; Green House Gases and Global Warming; Global Climatic Assessment- IPCC 		

7. Climate Change and Vulnerability: Physical Vulnerability; Economic Vulnerability; Social Vulnerability.
8. Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health
9. Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.
10. The Climate Change Policy Framework: Global Initiatives UNFCCC and COPs; National and Local Action Plan on Climate Change.
11. Government of India. (2008). Vulnerability Atlas of India. New Delhi, India: Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India

MA/MSc 1st Year, Sem. II
Course IV (B)
(Theory)

Program/Class: MA	Year: First	Semester: Second
Subject: Geography		
Course Code: A110805TN	Course Title: SOCIAL GEOGRAPHY	
Course Learning Outcomes :- On completion of this course, learners will be able to:		
<ul style="list-style-type: none"> ● Understand the diverse social structures, cultural patterns, and spatial distributions across India. ● Analyze the effects of socio-economic factors on spatial interactions and regional developments within India. ● Evaluate the impact of historical and contemporary social policies on the geographical distribution of communities. ● Apply social geographic concepts to address issues like urbanization, migration, and regional disparities in India. 		
Credits: 4	Core Compulsory	
Max. Marks: 25(Internal) +75(External)	Min. Passing Marks:33 (Minimum 25 Marks in External)	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
I	Social Geography of India: Nature and Scope, Indian society - a study of unity in diversity, Centripetal and centrifugal forces, Aryavarta, Dakshinpatha, Narmada Chota-Nagpur axis, regional identities and regionalism: A curse or a boon.	12
II	Historical Bases of Socio cultural status of India: Elements of development in socio cultural regions; Sixteen Mahajanapads and Mughal Empire: Socio-cultural changes and unity of india, Impact of Mewar Kingdom and British Empire on the hearts of Indian People for the quest of Independence.	14
III	Geographical factors explaining the emergence of different religions in India.	8
IV	Geographic analysis of caste and tribe, Development of Different ancient languages, caste and settlement morphology, Various relations and mutual communication promoting the unity of India.	11
Suggested Readings :-		
<ol style="list-style-type: none"> 1. Ahmad, Aijazuddin., 1999, Social Geography, Rawat Publication, New Delhi 2. Ahuja, Ram, 1999, Society in India, Rawat Publication, Delhi 3. Ahuja, Ram, Social Problems in India, Rawat Publication, New Delhi 4. Banerjee Guha, S. ed. (2004) Space, Society & Geography, Rawat Publication, Delhi 5. Bardhan , P.,2003,Poverty,Age Structure & Political Economy in India, Oxford Univessity Press 		

6. Biswas, A.K., Jortajada, C., 2006, Appraising Sustainable Development, Oxford University
7. Blij, H.J., Murphy, Alexander B, Human Geography, 1807, Wiley Publishers
8. Bottomore, T.B., Sociology, Unwin University Books
9. Chaudhuri Sachin, Society and Change, Oxford University Press, Bombay
10. Daniels, P., Bradshaw, M., Sidaway, J., 2003, Human Geography, Pearson Education (Singapore) Pte. Ltd., Delhi.
11. Dhanagare, D.N., 2004, Themes and Perspectives in Indian Sociology, Rawat Publication, Delhi
12. Dohrs, I., Sommers, L., 1967, Cultural Geography, Thomas Crowell Company
13. Fellmann, J.D., Getis, A., Getis, J., 2000, Human Geography- Landscape of Human Activity, McGraw Hill
14. Fern, R.L., 2002, Nature, God and Humanity, Cambridge university Press

MA/MSc 1st Year, Sem. II
Course IV (C)
(Theory)

Program/Class: MA	Year: First	Semester: Second
Subject: Geography		
Course Code: A110806TN	Course Title: POLITICAL GEOGRAPHY	
Course Learning Outcomes :- On completion of this course, learners will be able to:		
<ul style="list-style-type: none"> ● Understand key concepts and theories in political geography, including territoriality, sovereignty, and geopolitics. ● Analyze the influence of geographical factors on political behaviours, boundaries, and power dynamics. ● Assess the impact of political decisions on spatial relationships and territorial conflicts. ● Apply knowledge of political geography to real-world issues such as electoral geographies, international relations, and conflict resolution. 		
Credits: 4	Core Compulsory	
Max. Marks: 25(Internal) +75(External)	Min. Passing Marks:33 (Minimum 25 Marks in External)	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
I	Definition and Historical Development of Political Geography, Recent Trends and Development in Political Geography, Distinction between Geo-Politics and Political Geography.	11
II	Definition and Components of State, Definition of Nation and Nation State, Geographical factors of state: Physical, spatial, Human & Economic. Definition of Boundary and Frontiers and their Classification. Heartland and Rimland Theory.	12
III	Definition and Components of State, Definition of Nation and Nation State, Geographical factors of state: Physical, spatial, Human & Economic. Definition of Boundary and Frontiers and their Classification.	12
IV	Indian concepts of geopolitics towards the approach of "Vasudhaiva Kutumbakam". Geopolitical significance of the Indian Ocean; Role of third world countries; Regional co-operation; Geopolitical study of South-East Asia and South Asia, Politics of World Resources.	10
Suggested Readings :-		
<ol style="list-style-type: none"> 1. Agnew, John (1997) Political Geography: A Reader, Arnold, London 2. Adhikari, Sudepta (2002) Political Geography, Rawat Publications, New Delhi 3. Pounds, Norman J.G. (1963) Political Geography, Mc Graw Hill Book Company 4. Husain Majid (1994) Political Geography, Anmol Publications Pvt. Ltd. 5. Cox, Kevin R. (2002) Political Geography: Territory, State, and Society, Blackwell Publishers, Oxford. 		

6. Shrivastava, R.M. – Rajnitik Bhoogol, Allahabad.
7. Chauhan, P.R. : Rajnitik Bhoogol, Gorakhpur.
8. Dixit, S.K. : Rajnitik Bhoogol, Gorakhpur.
9. Dixit, S.K. – Electoral Geography, Varanasi.
10. Dwivedi, R.L. : Political Geography, Allahabad.



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पत्रांक : सीएसजेएमयू/अकादमिक/418 /2023

दिनांक: 17.04.2023

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		Bhasha Pradyogiki	A010805T	
11.	History	History of Modern India Political and Administrative aspects: 1740-1857	A050804T	2
12.	Home Science	Gender Sensitization for Women Empowerment	A130805T	2
13.	Maths	Introductory Statistical Methods	B030809T	2

14	Philosophy	Socio Political Philosophy	A100805T	2
15	Political Science	Indian Foreign Policy & all other papers of 2 nd semester	(A060804T) and all others	2
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Rohini Sharma

Dean (Academics)

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दिनांक: 13.05.2023

ADDENDUM - 01/2023

Kindly note that for the academic session 2022-23, **Elementary Statistics** (code: A080804T) - a paper offered under the Economics Subject - is also recognized as **minor elective** for the Masters students of other faculty.

Rohit Sharma

(Dean Academics)

CSJM University
Semester-II

B040808E

Credit: 4 (100 marks)

MINOR ELECTIVE PAPER
BOTANY

BIODIVERSITY AND ENVIRONMENTAL POLLUTION

Unit I-Biodiversity

1. Biodiversity: Introduction, threats to biodiversity, its causes and consequences. IUCN categories and Red DATA Book.
2. Biodiversity Conservation: National Parks, Sanctuaries and Biosphere Reserves.

Unit II- Environmental Pollution

3. Environmental Pollution: Gaseous and particulate pollutants and AQI (Air Quality Index), Greenhouse effect, Acid Rain and Ozone depletion; causes, consequences and their mitigation. Water and Soil pollution: sources and their impact. Wastes: Types, collection and disposal, recycling of wastes (hazardous and non-hazardous)
4. Water Management: Rain water harvesting and Ganga Action plan.

Suggested readings:

1. Singh JS, Singh SP, Gupta SR (2014): Ecology, Environmental Science and Conservation. S. Chand & Company, New Delhi
2. Sharma PD: Ecology and Environment. Rastogi Publications, New Delhi
3. Jha S K: Paristhitiki aur Paryavaran: Bauddhik Prakashan



CHEMISTRY DEPARTMENT

D.A-V. COLLEGE, KANPUR

Ref. No.

Date: 24-01-2023

B020808T 1ST Year (M.Sc. Chemistry) Semester-II Minor Elective Paper Environmental Chemistry

- 1. Environment**
Introduction, the composition of the atmosphere, vertical temperature, heat budget of the earth atmospheric system, vertical stability atmosphere, biogeochemical cycles of C, N, P, S, and O, Biodistribution of elements.
- 2. Hydrosphere**
The chemical composition of water bodies in lakes, streams, rivers, wetlands, etc. Hydrological cycle. Aquatic pollution-inorganic, organic, pesticides, agricultural, industrial and sewage, detergents, oil spills, and oil pollutants, water quality parameters-dissolved oxygen, biochemical oxygen demand.
- 3. Soils**
Composition, micro, and macronutrients, Pollution-fertilizers, pesticides, plastics and metals, waste treatment.
- 4. Atmosphere**
Chemical composition of atmosphere-particles, ions and radical and photochemical reactions in the atmosphere, smog formation.
- 5. Industrial pollution**
Cement, sugar, distillery, drug, paper and pulp, thermal power plants, nuclear power plants, metallurgy. Radionuclide analysis, disposal of wastes and their management.

Books Suggested:

1. Environmental Chemistry, S.E. Manahan, Lewis Publishers.
2. Standard Methods of Chemical Analysis, F. J. Welcher vol. III, Van Nostrand Reinhold Co.
3. Environmental Chemistry, C. Baird, W. H. Freeman.
4. Environmental Toxicology, Ed. J. Rose, Gordon and Breach Science Publication.
5. Environmental Chemistry, A.K. De, Wiley Eastern.


DEAN
FACULTY OF SCIENCE
C.S.J.M. UNIVERSITY
KANPUR

विषय: संस्कृत

एम.ए.	सेमेस्टर: द्वितीय	पूर्णांक 75+25=100
प्रश्नपत्र कोड: A020808T	प्रश्नपत्र का शीर्षक : वैदिक संस्कृति एवं पर्यावरण	क्रेडिट: 5
माइनर इलेक्टिव प्रश्नपत्र		

उद्देश्य

इस पाठ्यक्रम का उद्देश्य विद्यार्थियों को अपनी संस्कृति, सभ्यता एवम पर्यावरण से अवगत कराना है जोकि उनके अस्तित्व का आधार है। संस्कृति मानव की जीवन शक्ति, राष्ट्रीय आदर्श की गौरवमयी मर्यादा और स्वतंत्रता की प्रतिष्ठा होती है। इसमें सार्वभौम आदर्शों की प्रेरणा निहित रहती है। राष्ट्र का उत्थान इसी पर अवलंबित रहता है। साथ ही आज पृथ्वी पर यदि जीवन संभव है तो इसका एकमात्र कारण पर्यावरण ही है। हम अपने दैनिक जीवन में जिन सभी चीजों के संपर्क में हैं वो सभी पर्यावरण में ही मौजूद है। प्रकृति ने हमें शुद्ध एवम स्वच्छ पर्यावरण प्रदान किया है। हमारा सदैव यही प्रयास रहना चाहिए कि हम इसे हर हाल में स्वच्छ रखें क्योंकि एक अच्छा और स्वच्छ पर्यावरण ही हमें श्रेष्ठ जीवन जीने में हमारी मदद करता है।

निर्धारित पाठ्यक्रम

प्रथम इकाई- संस्कृति की परिभाषा एवम स्वरूप, सभ्यता और संस्कृति में भेद, ^{वैदिक} ~~संस्कृत~~ संस्कृति की विशेषताएं।

द्वितीय इकाई- वर्ण व्यवस्था, आश्रम व्यवस्था, पुरुषार्थ चतुष्टय, संस्कार।

तृतीय इकाई- पर्यावरण का शब्दकोशीय अर्थ एवम परिभाषाएं, पर्यावरण का स्वरूप, पंच तत्त्वों का सामान्य अध्ययन, प्रकृति एवम मानव संबंध।

चतुर्थ इकाई- पर्यावरण प्रदूषण के प्रकार, संस्कृत में पर्यावरण संरक्षण के विविध उपाय, पर्यावरण संरक्षण में यज्ञ की भूमिका।

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28-1-2023

डॉ० ए० के० सिन्हा
संयोजक (संस्कृत)
बोर्ड आफ स्टडीज

प्रश्नपत्र का प्रारूप एवम अंक विभाजन

- 1) प्रथम इकाई से तीन लघु उत्तरीय प्रश्न- $5 \times 3 = 15$
- 2) द्वितीय इकाई से दो विस्तृत प्रश्न- $12.5 \times 2 = 25$
- 3) तृतीय इकाई से तीन लघु उत्तरीय प्रश्न- $5 \times 3 = 15$
- 4) चतुर्थ इकाई से दो विस्तृत प्रश्न- $10 \times 2 = 20$

TOTAL = 75

आंतरिक मूल्यांकन

- 1) असाइनमेंट 10 अंक
- 2) वस्तुनिष्ठ लघुत्तरीय परीक्षा 10 अंक
- 3) उपस्थिति, अनुशासन आदि 05 अंक

TOTAL = 25

सहायक ग्रंथ

- 1) वैदिक संस्कृति जयदेव वेदालंकार, न्यू भारतीय बुक कॉर्पोरेशन, नई दिल्ली।
- 2) भारतीय संस्कृति के विविध आयाम डॉक्टर सत्यपाल श्रीवत्स, न्यू भारतीय बुक कॉर्पोरेशन नई दिल्ली।
- 3) आधुनिक जीवन और पर्यावरण दामोदर शर्मा एवम हरीश व्यास, प्रभात प्रकाशन नई दिल्ली।
- 4) पर्यावरण शिक्षा डॉक्टर राजेश दुबे, प्रकाशक प्रकृति भारती, लखनऊ।

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28-1-2023

डॉ० ए० क० सिन्हा
संयोजक (संस्कृत)
बोर्ड ऑफ स्टडीज



DR. NISHI PRAKASH SAXENA
Convenor (CSJM University)
dept. of Sociology
S N Sen BV PG College, Kanpur

Semester II
Elective Minor Paper
Sociology of Environment
A070907T

Marks/Credit: 75/5

Objectives

The course plan aims to provide knowledge of sociological basis of Environment and society interface. It seeks to impart social skills in environmental concerns in order to understand the human sufferings.

Unit	Content
1	Scope and Significance of Environmental Sociology- Approaches to the study of environmental problems.
2	Environmental Problems and Crisis : Nature and extent of environmental problems, Types of Environmental Problems, Causes of Environmental Problems. Culture and Environment
3	Contemporary Environmental issues in India : Pollution and its effect, Deforestation and Desertification, Development projects Displacement and Rehabilitation
4	State and Environment : Environmental Policy, Government Programmes for the protection and enrichment of environment.
5	Towards Environmental Protection : Role of International Agencies and NGOs, ... Environmental Movement.

Recommended Books

- Gadgil Madhav and Ramchandra Guha (1996) : Ecology and Equity: The use and abuse of Nature in contemporary India, Our, New Delhi.
- Michael Redclift. (1984): Development and the Environmental Crisis, Meheu Co. Ltd. New York.
- Riordan O L T (1981) : Environment, Pion.
- Schnaiberg Allan (1981) : The Environment, Oxford University Press, New York.
- D.S. Yadav; Environmental Sociology.
- M.K. Goyal; पर्यावरणीय मुद्दे
- Dr Dayashankar Yadav; पर्यावरण का समाजशास्त्र

19

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N. N.