

# **VIDYASAGAR UNIVERSITY**

Midnapore, West Bengal



*PROPOSED CURRICULUM & SYLLABUS (DRAFT) OF*

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## **BACHELOR OF SCIENCE WITH GEOGRAPHY (MULTIDISCIPLINARY STUDIES)**

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**3-YEAR UNDERGRADUATE PROGRAMME**  
*(w.e.f. Academic Year 2023-2024)*

*Based on*

**Curriculum & Credit Framework for Undergraduate Programmes  
(CCFUP), 2023 & NEP, 2020**

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VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

**VIDYASAGAR UNIVERSITY**  
**BACHELOR DEGREE IN MULTIDISCIPLINARY STUDIES with GEOGRAPHY**  
*(Under CCFUP, 2023)*

Level	YR.	SEM	Course Type	Course Code	Course Title	Credit	L-T-P	Marks				
								CA	ESE	TOTAL		
B.Sc. in Physical Sc. / B.A. in Social Science with Geography	2 <sup>nd</sup>	V	<b>SEMESTER-V</b>									
			Major-A4	GEOPMJ04	T: Hazards and Disaster Studies <i>(To be studied by students taken Geography as Discipline- A )</i>	4	3-1-0	15	60	75		
			Major-A5	GEOPMJ05	T: Economic Geography <i>(To be studied by students taken Geography as Discipline- A )</i>	4	3-1-0	15	60	75		
			Major-A6	GEOPMJ06	T: Development Studies in Geography; <i>(To be studied by students taken Geography as Discipline- A )</i>	4	3-1-0	15	60	75		
			Major (Elective) -2	GEOMJE-02	T: Political Geography Or Geography of Health and Wellbeing <i>(To be studied by students taken Geography as Discipline- A )</i>	4	3-1-0	15	60	75		
			Minor-5 (Disc.-C5)	GEOMIN05	T: Hazards and Disaster Studies <i>(To be studied by students taken Geography as Discipline- C )</i>	4	3-1-0	15	60	75		
		<b>Semester-V Total</b>						<b>20</b>				<b>375</b>
		VI	<b>SEMESTER-VI</b>									
			Major-B4		<i>To be decided (Same as MajorA4 for Geography taken as Discipline-B)</i>	4	3-1-0	15	60	75		
			Major-B4		<i>To be decided (Same as Major-A5 for Geography taken as Discipline-B)</i>	4	3-1-0	15	60	75		
			Major-B4		<i>To be decided (Same as Major-A6 for Geography taken as Discipline-B)</i>	4	3-1-0	15	60	75		
			Major (Elective) -3	GEOMJE-02	T; Geoheritage and Geotourism Or Social and Cultural Geography <i>(To be studied by students taken Geography as Discipline- A )</i>	4	3-1-0	15	60	75		
			Minor -6 (Disc.-C6)	GEOMIN06	T: Development Studies in Geography <i>(To be studied by students taken Geography as Discipline- C )</i>	4	3-1-0	15	60	75		
		<b>Semester-VI Total</b>						<b>20</b>				<b>375</b>
		<b>TOTAL of YEAR-3</b>						<b>40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>
		<b>Eligible to be awarded B. Sc. in Physical Sc. / B.A. in Social Science with Geography on Exit</b>						<b>126</b>	<b>Marks (Year: I+II+III)</b>			<b>2325</b>

MJP = Major Programme (Multidisciplinary), MI = Minor, A/B = Choice of Major Discipline; C= Choice of Minor Discipline; CA= Continuous Assessment, ESE= End Semester Examination, T = Theory, P= Practical, L-T-P = Lecture-Tutorial-Practical

VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

## MAJOR (MJ)

**MJ A4/B4: Hazards and Disaster Studies**

**Credits 04 (FM: 75)**

**MJ A4/B4T: Hazards and Disaster Studies**

**Credits 04 (60 Lectures)**

### **Course Outcome**

After completion of this course students will be able to

1. Differentiate between hazard and disaster and geographical perspectives of each disaster
2. Nature, distribution and impacts of disasters in India
3. Management strategy under institutional framework as well as community based management strategy

### **Course contents:**

1. Hazards, Risk, Vulnerability and Disasters: Definition and Concepts.
2. Geographical Context of Hazards and Disasters in India: Causes, Impact, Distribution and Mapping: Flood and Drought in reference to the climate extremes. vulnerability and exposure to hazards
3. Disasters in India: Causes, Impact, Distribution and Mapping: Earthquake, Landslide and Cyclone.
4. Human-induced hazards and disasters: Causes, Impact, of hazards and disasters.
5. Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During Disasters

### **Suggested Readings:**

1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
8. Singh Jagbir (2007) "Disaster Management Future Challenges and Opportunities", 2007. Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India ([www.ikbooks.com](http://www.ikbooks.com)).

**Course Outcome:**

After the completion of course, the students will have ability to:

1. *Distinguish different types of economic activities and their utilities.*
2. *Appreciate the factors responsible for the location and distribution of activities.*
3. *Examine the significance and relevance of theories in relation to the location of different economic activities.*

**MJ A5/B5 T: Economic Geography (Theory)****Credits 04 (60 L)****Course contents:**

1. Meaning and approaches to Economic Geography. Concept of economic activities, Goods and services, production, exchange and consumption, economic man, theories of choices, Economic distance and transport costs
2. Factors affecting location of economic activity with special reference to agriculture (Von Thunen), and industry (Weber).
3. Primary activities: Subsistence and commercial agriculture (Case studies of tea plantation in India and mixed farming in Europe), forestry, fishing and mining
4. Secondary activities: Manufacturing (cotton textile, iron and steel), concept of manufacturing regions, special economic zones and technology parks
5. Tertiary activities: transport, trade and services. Transnational sea-routes, railways and highways with reference to India. International agreements and trade blocs: WTO, BRICS, and OPEC

**Suggested Readings**

1. Siddhartha K. (2018) Economic Geography. Kitab Mahal
2. Leong G. C & Morgan GC (1982) Human and economic Geography. Oxford India
3. Nag PK (2014) Economic Geography: A study of Resources. New central Book Agency
4. Memoria CB (2022) Economic and Commercial Geography of India. Shivalal Agarwala & Company
5. Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
6. Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
7. Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis.
8. Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
9. Wheeler J. O., 1998: Economic Geography, Wiley.
10. Durand L., 1961: Economic Geography, Crowell.
11. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
12. Willington D. E., 2008: Economic Geography, Husband Press

**Course Outcomes:**

After the completion of the course, the students will have the ability to:

1. Appreciate the concepts, needs and various approaches to development;
2. Understand the economic policies and programmes of rural and urban development in India;
3. Appreciate the tenets and goals of sustainable development.

**MJ A6/B6 T: Development Studies in Geography (Theory)****Credits 04 (60L)****Course contents:**

- 1) Concept of development, indicators of development; changing concept of development and underdevelopment; Regional disparities in India
- 2) Rural development strategies in India. Evaluation of the rural development programmes in India: PMGSY, MGNREGA, PMGAY, NRHM
- 3) Urban development: need, principles and methods; challenges and opportunities of urban development
- 4) Urban development programmes in India: JNNURM, AMRUT, Housing for All 2022, Smart city mission, HRIDAY.
- 5) Sustainable development: Definition and components; MDGs, SDGs

**Suggested Readings:**

1. Gilg A. W., 1985: An Introduction to Rural Geography, Edwin Arnold, London.
2. Krishnamurthy, J. 2000: Rural Development - Problems and Prospects, Rawat Publs., Jaipur
3. Lee D. A. and Chaudhri D. P. (eds.), 1983: Rural Development and State, Methuen, London.
4. Misra R. P. and Sundaram, K. V. (eds.), 1979: Rural Area Development: Perspectives and Approaches, Sterling, New Delhi.
5. Misra, R. P. (ed.), 1985: Rural Development: Capitalist and Socialist Paths, Vol. 1, Concept, New Delhi.
6. Palione M., 1984: Rural Geography, Harper and Row, London.
7. Rapley, John (2007) Understanding Development: Theory and Practice in the 3rd World. Lynne Rienner, London.
8. Baker, Susan (2006) Sustainable Development. Milton Park, Abingdon, Oxon; New York, N.Y.: Routledge. (Chapter 2, "The concept of sustainable development").
9. 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
10. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
11. Singh Jagbir (2007) "Disaster Management Future Challenges and Opportunities", 2007. Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com).

Major Elective

(To be studied by students taken Geography as Discipline- A)

**Major Elective (MJE)-2:**

(Credits 04; FM: 75)

**Major Elective -2: Political Geography**

**Credits 04(Full Marks: 75)**

**Course Outcomes:**

After the completion of course, the students will have ability to:

1. Learn the concept of nation and state and geopolitical theories
2. Understand the different dimensions of electoral geography and resource conflicts
3. Have sound knowledge of politics of displacement, focusing on dams and SEZ.

**MJE-1T: Political Geography (Theory)**

**Credits 04**

**Course contents:**

1. Concept of State, Nation and Nation State. Attributes of State: Frontiers, Boundaries, Enclave and exclave.
2. Politics of resources: Oil and water; Inter-state dispute on water resources in India. International water dispute between India and neighbours.
3. Geographical basis of Indian federalism; Emergence of states since independence. Electoral Geography: Geography of Voting, Geographic Influences on voting pattern, Gerrymandering
4. Geopolitics. Geostrategic theories and present relevance: Heartland and Rimland.
5. Politics of Displacement: Issues of relief, compensation and rehabilitation: with reference to Dams and Special Economic Zones of India

**References:**

1. Adhikari, S. (2007): Political Geography, Rawat Publication, NewDelhi.
2. Adhikari, S. (2013): Political Geography of India –Sharda Pustak Bhawan, Allahabad.
3. Agnew, J., (2002): Making Political Geography, Arnold.
4. Agnew, J., Mitchell K. and Total G., (2003): A Companion to Political Geography, Blackwell.
5. Cox, K. R., Low M. and Robinson J., (2008): The Sage Handbook of Political Geography, Sage Publications.
6. Cox, K., (2002): Political Geography: Territory, State and Society, Wiley-Blackwell
7. Gallaher, C., et al, (2009): Key Concepts in Political Geography, Sage Publications.
8. Glassner, M., (1993): Political Geography, Wiley.
9. Hodder, Dick, Sarah, J, Llyod and Keith, S, McLachlan., (1998): Land Locked States of Africa and Asia (vo.2), Frank Cass
10. Jones, M., (2004): An Introduction to Political Geography: Space, Place and Politics, Routledge
11. Painter, J. and Jeffrey, A., (2009): Political Geography, Sage Publications.
12. Taylor, P. and Flint, C., (2000): Political Geography, Pearson Education.
13. Verma, M. K., (2004): Development, Displacement and Resettlement, Rawat Publications, Delhi.

**OR**

## Major Elective -2: Geography of Health and Wellbeing

Credits 04(Full Marks: 75)

### Course Objectives:

This course aims to attain following learning objectives:

1. Various dimensions of health geography and its linkages with environment.
2. Detailed analysis of environment and health quality and exposure to risk.
3. Understanding of the relationship between climate change and human health.

### Course Outcomes:

After the completion of course, the students will have ability to:

1. Understand the key concepts related to health and its driving forces
2. Identify the linkages between the health, environment, exposure and risk.
3. Explain the relationships among health and disease pattern in environmental context with reference to climate change

## MJE-1T Geography of Health and Wellbeing (Theory)

Credits 04

### Course contents:

1. Definition, scope and trends of Geography of Health. Linkages of health with environment and development. Parameters of health and wellbeing
2. Geographical perspective of health in developed and developing countries. Health and disease pattern in Environmental Context with special reference to India
3. Factors influencing health and wellbeing. Health in relation to population dynamics, urbanization, inequality, malnutrition and poverty
4. Exposure and Health Risks: Air pollution; household wastes; water; housing; workplace.
5. Climate change and morbidity. Biological agents of disease. WHO programmes of health and wellbeing

### Suggested Reference:

1. Akhtar Rais (Ed.), 1990: Environment and Health Themes in Medical Geography, Ashish Publishing House, New Delhi.
2. Avon Joan L. and Jonathan A Patzed.2001: Ecosystem Changes and Public Health, Baltimin, John Hopling Unit Press (Ed).
3. Bradley, D., 1977: Water, Wastes and Health in Hot Climates, John Wiley Chichesten.
4. Christaler George and Hristopoles Dionissios, 1998: Spatio Temporal Environment Health Modelling, Boston Kluwer Academic Press.
5. Cliff, A.D. and Peter, H., 1988: Atlas of Disease Distributions, Blackwell Publishers, Oxford.
6. Gatrell, A., and Loytonen, 1998: GIS and Health, Taylor and Francis Ltd, London.
7. Hardham T. and Tannav M., (Eds): Urban Health in Developing Countries; Progress, Projects, Earthgoan, London.
8. Murray C. and A. Lopez, 1996: The Global Burden of Disease, Harvard University Press.
9. Moeller Dade wed., 1993: Environmental Health, Cambridge, Harward Univ. Press.
10. Phillips, D.and Verhasselt, Y., 1994: Health and Development, Routledge, London.

## Major Elective (MJE)-3:

(Credits 04; FM: 75)

### Major Elective -3: Geoheritage and Geotourism

Credits 04 (Full Marks: 75)

#### Course Objectives:

1. The course will provide a capacity to understand a systematic analysis of methods and resources supporting geo-conservation and geo-tourism worldwide.
2. Assessment of Geoheritage sites

#### Course outcome:

1. After completion of the course, the student should be familiar with the general concepts of the geological and geomorphological heritage of India
2. General knowledge about the importance of geological heritage
3. The training of personnel for professional geo-heritage jobs

### MJE-3T: Geoheritage and Geotourism (Theory)

Credits 04

#### Course contents:

1. Characteristics of a geo-tourism site: Its environment, heritage, aesthetics, culture, and well-being of stakeholders
2. The relations between geo-heritage and Geo-tourism: Tourism link between the geo-heritage and geo-tourism through a series of examples of geo-tourism sites.
3. Managing geo-tourism: Impacts of visitors and management of geo-tourism sites, examples from India.
4. Geo-heritage and Resilience: understanding geo-hazards and geo-conservation practices for resilience building, dissemination of knowledge and education through geo-tourism
5. Geomorphosite assessment techniques: Ratio between environmental, aesthetic, heritage and economic values of a geo-site. Quantitative evaluation of pedo-geomorphological and petrological sites.

#### References:

1. Geo-heritage and Geo-tourism resources – Nicoletta Santangelo and Attore Valente – M.d.p.i AG (25<sup>th</sup> August, 2020) ISBN number- 10:3039367889 (362 pages) – Hard cover
2. Geodiversity: Valuing and conserving abiotic nature – Gray, M. – John Wiley and Sons. 2004. ISBN number 0-470-09081-2
3. Vishwas S. Kale. 2014. Landscape and landforms of India. Springer

**OR**

## Major Elective -3: Social and Cultural Geography

Credits 04(Full Marks: 75)

### Course Objectives:

1. This course shall introduce definition, components of culture.
2. This paper shall elucidate about space and society, cultural regions, race, religion and language.
3. This course shall provide detailed understanding related to world population growth, population theory and social patterns and processes.

### Course outcome:

1. This paper shall enable the students to understand the basic concepts, nature and scope of cultural geography.
2. This course shall enable the students to appreciate the interrelationships between space and society, characteristics of cultural regions, race, religion and language.
3. Students shall be well-versed with the world population growth patterns, demographic transition theory, social patterns and process.

## MJE-3T: Social and Cultural Geography (Theory)

Credits 04

### Course contents:

1. Social and Cultural Geography: Concept, Origin, Nature and Scope.
2. Concept of Space, Social differentiation and stratification; social processes.
3. Elements of Culture : Language , Religion, Caste, Class, Race and Gender and their Spatial distribution in World and India
4. Peopling Process of India: Technology and Occupational Change; Migration.
5. Social groups, social behaviour and contemporary social environmental issues with special reference to India.

### Reference Books.

1. Ahmed A., 1999: Social Geography, Rawat Publications.
2. Casino V. J. D., Jr., 2009) Social Geography: A Critical Introduction, Wiley Blackwell.
3. Cater J. and Jones T., 2000: Social Geography: An Introduction to Contemporary Issues, Hodder Arnold.
4. Holt L., 2011: Geographies of Children, Youth and Families: An International Perspective, Taylor & Francis.
5. Panelli R., 2004: Social Geographies: From Difference to Action, Sage.
6. Rachel P., Burke M., Fuller D., Gough J., Macfarlane R. and Mowl G., 2001: Introducing Social Geographies, Oxford University Press.
7. Smith D. M., 1977: Human geography: A Welfare Approach, Edward Arnold, and London.
8. Smith D. M., 1994: Geography and Social Justice, Blackwell, Oxford.
9. Smith S. J., Pain R., Marston S. A., Jones J. P., 2009: The SAGE Handbook of Social Geographies, Sage Publications.
10. Sopher, David (1980): An Exploration of India, Cornell University Press, Ithasa
11. Valentine G., 2001: Social Geographies: Space and Society, Prentice Hall
12. Johnston, R; Gregory, D, Pratt, G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication, New Jersey.

**MINOR (MI)**

*(To be studied by students taken Geography as Discipline- C)*

**MI-5/C5: Same as Minor-5 (GEOMIN05) of Geography (Hons) programme Credits 04  
Full Marks: 75**

**MI-6/C6: Same as Minor-6 (GEOMIN06) of Geography (Hons) programme Credits 04  
Full Marks: 75**