

Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous),
Shivajinagar, Pune 05

F.Y.B.Sc. Geography NEP 2023 Pattern

Syllabus

To be implemented from Academic Year 2023-24

Semester	Paper	Subject code	Title of Paper	No. of credits
Semester I				
F.Y.B.Sc. Sem I	OE	23ScGeoU1401	Geography of Disaster Management –I	2
Semester II				
F.Y.B.Sc. Sem II	Minor (Paper I) Practical	23ScGeoU2301	Techniques in Physical Geography (P)	2
	OE	23ScGeoU2401	Geography of Disaster Management –II	2

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Modern College of Arts, Science and Commerce (Autonomous), Shivajinagar, Pune 05
F. Y. B. Sc. Geography
(2023 Course under NEP 2020)
Course Code: 23ScGeoU1401

Title of the Course: Geography of Disaster Management-I

No. of Credits: 02

Total Lectures: 30

Objectives:

- 1) To introduce students the concept of disaster & its relation with Geography.
- 2) To acquaint the students with the utility & application of hazards in different areas & its management.
- 3) To make the students aware of the need of protection & disaster management.

	Semester – I	Lectures
Chapter 1	Introduction to Hazards and Disasters	06
	Definition and types A. Meaning and definitions of hazard and disaster B. Geographical conditions and disasters C. Classification of disasters	
Chapter 2	Basic concepts in Disaster Management	12
	Terminology and concepts A. Concept of disaster management B. Aims and objectives C. Pre-disaster management D. Post-disaster management	
Chapter 3	Disaster Management and Measures	12
	Structural and Non-structural measures A. Structure of disaster management: Preparedness, Response, Recovery, Mitigation, Rehabilitation B. Standard operating procedure of management on government level C. Role of media	

Learning Outcomes:

1. Students will understand the natural and manmade disasters.
2. To prepare students for prevention of disasters.
3. In the field of disaster management students will create their employment opportunities.
4. To develop ability in the field of management, planning and their own agency.
5. Group discussions, effective communications and personal opinion may be improve their socio-economic responsibilities.

Reference books:

1. Alexander David, 2000, Introduction in Confronting Catastrophe, Oxford University Press.

2. Alexander, D. (1993): Natural Disasters. UCL Press Ltd., London
3. Andharia J. 2008, Vulnerability in Disaster Discourse, JTCDM, Tata Institute of Social Sciences Working Paper no. 8.
4. Blakie, P. Cannon T, Davis I, Wisner B. 1997, At Risk Natural Hazards, People Vulnerability and Disasters Rourledge.
5. Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
6. Chandna, R. C., 2000. A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
7. Copola P Damon, 2007, Introduction to International Disaster Management
8. Cuny, F. 1983, Development and Disaster, Oxford University Press.
9. Govt. of India, 2005, Disaster Management Act Government of India, New Delhi.
10. Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
11. Huggett, D.A., 2004. Fundamentals of Biogeography, Routledge.
12. Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
13. Knox, P. and Agnew J., 1998. The Geography of the World Economy, Arnold, London.
14. Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice Hall, Englewood Cliffs, New Jersey, USA.
15. Ross, D. A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
16. Saptarshi P. G., More J. C., Ugale V. R. (2009), "Geography and Natural Hazard" Diamond, Pune.
17. Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad
18. Singh, S., 1998. Geomorphology, Prayag Pustak Bhavan, Allahabad.
19. Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
20. A. H. Choudhar, P. N. Salve, S. M. Kadam, R. H. Choudhar, V. C. Ithape (2010), "Contemporary Issues and Geography", Atharva ,Pune.

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F. Y. B. Sc. Geography
(2023 Course under NEP 2020)
Course Code: 23ScGeoU2301

Title of the Course: Techniques in Physical Geography

No of Credits: 02

No of Practicals: 15

Objectives:

1. To acquire the knowledge of various techniques in Physical Geography.
2. To enable the student to use techniques of specific maps and map reading.
3. The students will be able to apply particular practical knowledge in the programmes and planning in the society.

	Semester – I	Practicals
Chapter 1	Maps	4
	A. Definition B. Elements of Map: Title, Scale, Direction, Projection, Conventional signs and symbols, Legends C. Types of Maps D. Significance of Maps	
Chapter 2	Map Scales	6
	A. Definition B. Types: Verbal Scale (VS), Representative Fraction (RF), Graphical Scale C. Conversion of scale: VS into RF and RF into VS (Minimum 2 examples each) D. Construction of simple graphical scale (Minimum 2 exercises)	
Chapter 3	Relief	3
	A. Methods of relief representation i. Qualitative: Hachures, Hill shading, Layer tint ii. Quantitative: Spot height, Triangulation point, Bench mark, Contours, Form lines B. Representation of following features by contours: a) Slopes: uniform slope, concave slope, convex slope, terraced slope b) Landforms: conical hill, plateau, ridge, saddle, V-shaped valley, U-shaped valley, waterfall, gorge, spur and cliff	
Chapter 4	Representation of Data	2
	A) Thematic maps i. Dot methods	

	ii. Choropleth method iii. Isopleth method B) Field Visit, preparation of report (Report should be submit in to the department)	

Course Outcome:

1. To develop the practical knowledge and skills of map, scale and projections.
2. Students should aware new techniques and skills of map making.
3. Students will understand the different types of relief representation methods.
4. To acquire knowledge of various thematic maps and their use.
5. To improve ability of representation of data.
6. Field visit get wide view of observation skills related to geographical landforms and various geomorphic processes.

Reference books:

1. Siddhartha, K., 2006. Geography through maps, Kisalaya Publications Pvt. Ltd, Delhi.
2. Singh, G., 2005. Map work and practical geography. Vikas Publishing House Pvt. Ltd., New Delhi.
3. Singh, R.L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi. India.
4. Ramamurthy, K., 1982. Map Interpretation, Rex Printers, Madras.
5. Singh, L.R. and Singh, R., 1973. Map work and practical geography, Central Book Allahabad.
6. Monkhouse, F.J. and Wilkinson, H.R., 1971. Maps and Diagrams. Methuen and Co. Ltd., London.
7. Steers, J.A., 1970. An Introduction to Study of Map Projections. University of London Press Ltd., London.
8. Singh, R.L., and Dutt, P.K., 1968. Elements of practical geography, Students' Friends, Allahabad.

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(2023 Course under NEP 2020)
Course Code: 23ScGeoU2401

Title of the Course: Geography of Disaster Management-II

No. of Credits: 02

Total Lectures: 30

Objectives:

- 1) To introduce students the concept of disaster & its relation with Geography.
- 2) To acquaint the students with the utility & application of hazards in different areas & its management.
- 3) To make the students aware of the need of protection & disaster management.

	Semester – II	Lectures
Chapter 1	Climatic disasters and management	10
	Causes, effects, areas and management A. Cyclones B. Droughts C. Floods	
Chapter 2	Anthropogenic disasters and management	10
	Trends, types, areas, causes, effects and remedies A. Deforestation B. Forest fire C. Soil degradation D. Over exploitation of resources	
Chapter 3	Global issues and movements	10
	Causes, effects and measures to conservation A. Global warming B. Ozone depletion C. Green house effects	

Learning Outcomes:

1. Students will understand the natural and manmade disasters.
2. To prepare students for prevention of disasters.
3. In the field of disaster management students will participate to help the community problems.
4. To develop ability to understand local, regional and global hazards for reducing the problems.
5. Group discussions, effective communications and personal opinion may be improve their socio-economic responsibilities.

Reference books:

1. Alexander David, 2000, Introduction in Confronting Catastrophe, Oxford University Press.
2. Alexander, D. (1993): Natural Disasters. UCL Press Ltd., London

3. Andharia J. 2008, Vulnerability in Disaster Discourse, JTCDM, Tata Institute of Social Sciences Working Paper no. 8.
4. Blakie, P. Cannon T, Davis I, Wisner B. 1997, At Risk Natural Hazards, People Vulnerability and Disasters Rourledge.
5. Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
6. Chandna, R. C., 2000. A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
7. Copola P Damon, 2007, Introduction to International Disaster Management
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12. Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
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