



Savitribai Phule Pune University

(Formerly University of Pune)

**Three Year B.A. and B.Sc. Degree Program in Geography (Faculty
of Science & Technology)**

T.Y.B.A. (Geography)

Program Outcome – BA –Geography

Students of all undergraduate general degree programs should have acquired the following abilities/values at the time of graduation:

Programme: B.A. (Bachelor of Arts)	
General	
PO1:	Define and develop the interdisciplinary approach through the study of Geography
PO2:	Enhance employability and entrepreneur skills among the students.
PO3:	Demonstrate and appreciate the importance of diverse cultural, economic, regional, and resources perspective.
PO4:	Realization the importance of relation between Geography and various branches of Humanities, mental moral sciences.
PO5:	Demonstrate and understand the important concept and theories in the field of Geography.
Subject specific	
PO6:	Demonstrate knowledge of physical and cultural features of the earth surface.
PO7:	Define basic disciplines of Geography and its sub branches.
PO8:	Discuss the basic concepts and terminologies used in Geography like interior of the earth, plate tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
PO9:	Distinguish between minerals and rocks, weather and climate, interior of the earth, basic industries, farming etc.
PO10:	Describe the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc.
Institutional	
PO11:	Encourage to develop overall personality with soft skills and vocational competence among the students
PO12:	Enhance and rediscover knowledge skills and holistic approach towards life.

Choice Based Credit System Syllabus

To be implemented from Academic Year 2021-2022

T.Y.B.A. (Geography) Choice Based Credit System Syllabus

To be implemented from Academic Year 2021-2022

Course Structure

F. Y. B. A. GEOGRAPHY

Sr. No.	Semester	Course No	Name of the Course	Category
1	Semester I	Gg.110 (A)	Physical Geography	CC – 1 A
2	Semester II	Gg.110 (B)	Human Geography	CC – 1 B

S. Y. B. A. GEOGRAPHY

Paper Code	Semester	Paper	Subject
Gg: 210(A)	III	G2 CC1C	Environmental Geography I OR Economic Geography -I
Gg: 220(A)	III	S1 DSE 1 A	Geography of Maharashtra - I OR Population Geography – I
Gg: 201(A)	III	S2 DSE 2 A	Practical Geography – I (Scale and Map Projections)
(Value/skill based course)	III	SEC 2 A	Applied Course of Disaster Management
Gg: 210(B)	IV	G2 CC1D	Environmental Geography- II OR Economic Geography -II
Gg: 220(B) DSE 1 B	IV	S1 DSE 1 B	Geography of Maharashtra – II OR Population Geography – II
Gg: 201(B) DSE 2 B	IV	DSE 2 B	Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)
(Value/skill based course)	IV	SEC 2 B	Applied Course of Travel and Tourism Geography

T.Y.B.A. Geography

Paper Code	Semester	Paper	Subject
Gg: 310(A)	V	CC1E	Geography of Disaster Management-I OR Geography of Tourism- I
Gg: 320(A)	V	DSE 1 C	Geography of India –I OR Geography of Rural Development -I
Gg: 301(A)	V	DSE 2 C	Practical Geography – I (Techniques of Spatial Analysis)
(Value/skill based course)		SEC 2C	Research Methodology – I
Gg: 310(B)	VI	CC1F	Geography of Disaster Management-II OR Geography of Tourism -II
Gg: 320(B)	VI	DSE 1D	Geography of India -II OR Geography of Rural Development -II
Gg: 301(B)	VI	DSE 2D	Practical Geography – II (Techniques of Spatial Analysis, Surveying and Excursion / Village / Project Report)
(Value/skill based course)		SEC 2 D	Research Methodology – II

Equivalence of Previous syllabus along with new syllabus:

Paper	Old Course	New Course
G3	Gg-310 Regional Geography of India OR Gg-310 Human Geography	Geography of Disaster Management-I OR Geography of Tourism- I
G3		Geography of Disaster Management-II OR Geography of Tourism- II
S3	Gg-320 Agricultural Geography OR Gg-320 Population and Settlement Geography	Geography of India –I OR Geography of Rural Development -I
S3		Geography of India –II OR Geography of Rural development -II
S4	Gg-301 Techniques of Spatial Analysis	Practical Geography – I (Techniques of Spatial Analysis)
S4		Practical Geography – II (Techniques of Spatial Analysis, Surveying and Excursion / Village / Project Report)

Semester V

Geography of Disaster Management-I CC1E (No. of Credits: 03)

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.

Course Outcome:

1. Describe concepts of Disaster and its relations with Geography.
2. Explain terminology and concepts of Disaster Management.
3. Implement concepts of hazards in different areas and its Management.
4. Explain standard operating procedure on government for disaster management

Sr. No.	Topic	Learning Points	No. of Lectures
1	Introduction to hazards, disasters	a) Meaning and definition of Hazards and Disasters b) Geographical conditions and disasters c) Classification of Disasters	12
2	Concepts in disaster management	a) Concept of management b) Aims and objectives c) Pre-disaster management and Post – disaster management	12
3	Disaster management and measures	a) Structure of disaster management - Preparedness, Response, Recovery, Mitigation, Rehabilitation b) Standard operating procedure of disasters management on government level c) Role of media	12
4	Climatic disasters and their management	a) Hail Storm and Cloud Burst a) Tropical Cyclones and Storms b) Droughts and Floods	12

- Alexander, D. (1993): Natural Disasters. UCL Press Ltd., London
- Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
- Chandna, R. C., 2000. A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
- Copola P Damon, 2007, Introduction to International Disaster Management
- Cuny, F. 1983, Development and Disaster, Oxford University Press.
- Govt. of India, 2005, Disaster Management Act Government of India, New Delhi.
- Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.

- Huggett, D.A., 2004. Fundamentals of Biogeography, Routledge.
- Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
- Knox, P. and Agnew J., 1998. The Geography of the World Economy, Arnold, London.
- Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice Hall, Englewood Cliffs, New Jersey, USA.
- Ross, D. A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
- Saptarshi P. G., More J. C., Ugale V. R. and Arjun Musmade (2009), “Geography and Natural Hazard” Diamond, Pune.
- Savindra Singh, (2000): Environmental Geography. PrayagPustakBhavan, Allahabad
- Singh, S., 1998. Geomorphology, PrayagPustakBhavan, Allahabad.
- Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
- Musmade Arjun. H., More J. C., 2014, Geography of Disaster Management, Diamond, Pune.
- A.H.Choudhar ,P.N.Salve, S.M.Kadam.R.H.Choudhar,V.C.Ithape (2010), “Contemporary Issues and Geography”,Atharva ,Pune.
- More, Musmade, (2021), Geography of Disaster Management -I, Nirali Publication, Pune.

Semester V
Geography of Tourism- I CC1E (No. of Credits: 03)

Objectives:

- 1) To understand the importance of Tourism
- 2) To introduce the students to the basic concepts in Tourism Geography.
- 3) To understand the types of Tourism
- 4) To gain knowledge different aspects of Tourism Geography.

Course Outcome:

1. Understand the history of Tourism.
2. Introduce the students to the basic concepts in Tourism Geography
3. Understand the types of Tourism.
4. To gain knowledge different aspects of Tourism Geography.

Sr. No.	Topic	Sub Topic & Learning Point	No. of Lectures
1	Introduction	a) Definition and Nature <ol style="list-style-type: none"> i. Definition of Tourists and Tourism ii. Nature of Tourism iii. Importance of Tourism b) Scope and Extent <ol style="list-style-type: none"> i. Tourism and Travel as basic needs of mankind. ii. Tourism and Development. iii. Tourism as product c) Role of Geography in Tourism	12
2	Determinants of Tourism Development	a) Physical <ol style="list-style-type: none"> i. Relief ii. Climate iii. Forest b) Socio-Cultural <ol style="list-style-type: none"> i. Religious ii. Historical iii. Sports c) Political <ol style="list-style-type: none"> i) Policies, ii) Safety of Tourists, iii) Accessibility 	12
3	Concept and Classification of Tourism	a) Classification of tourism based on: <ol style="list-style-type: none"> i. Nationality ii. Travel Time iii. Purpose b) Concept of Tourism - I <ol style="list-style-type: none"> i. Agro-Tourism ii. Eco- Tourism iii. Wildlife Tourism iv. Geo-Tourism c) Concept of Tourism - II <ol style="list-style-type: none"> i. Health/medical Tourism ii Sports Tourism 	12

4	Role of Infrastructure in Tourism Development	a) Mode of Transportation: i) Road, ii) Rail, iii) Water, iv) Air b) Communication: i. Role of Guide in tourism development ii. Internet/Telephone/Mobile/TV iii. Electronic and Printing Media c) Travel and Tourism Agencies:	12
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Reference Books

1. Geography of Tourism: Robinson H. (1996)
2. Tourism Development, Principles and Practices: Bhatia A.K., Sterling Publisher Ltd., New Delhi
3. Geography of Tourism and Recreation: S. N. Singh (1985)
4. Tourism Today: A Geographical Analysis: Douglas Pearce (1987)
5. Tourism: Economic Physical and Social Impact: Mathieson A. and Wall C, Logman, U.K.
6. India: A Tourist Paradise: Manoj Das.
7. Tourism Today: An Indian Perspectives: Maneet Kumar
8. Geography of Travel and Tourism: Hudman L.E.
9. Successful Tourism Management: Seth P.N. (1985) Sterling Publisher Ltd., New Delhi.
10. Tourism Analysis: Smith S.L.J.
11. Tourism in India: Gupta V.K.
12. Dynamics of Tourism: Kaul R. N., Sterline Publisher Ltd.
13. Geography of Tourism: S.B. Shinde, Phadke Prakashan, Kolhapur
14. Muluk, Musmade, Doke, More, (2021), Geography of Tourism-I, Nirali Publication, Pune.

Semester V
Geography of India -I DSE 1 C(No. of Credits: 03)

Objective:

1. To acquaint the students with geography of our Nation.
2. To make the student aware of the magnitude of problems and Prospects at National level.
3. To help the students to understand the inter relationship between the subject and the society.
4. To help the students to understand the recent trends in regional studied

Course Outcome:

1. Explain the importance of geography of our Nation.
2. Make the aware of the magnitude of problems and Prospects at National level.
3. Identify the inter relationship among the subject and the society.
4. Understand the current trends in regional studied
5. Realize about diversity of our nation i.e. Religious, Languages, Tribes etc
6. Acquaint the knowledge about different types of resources and their utility

Sr. No	Unit	Subunit	No. of Lectures
1	Introduction	a) Location and Extent b) Historical Background c) International boundaries of India and related issues d) States and Union territories	12
2	Physiography	a) The Northern Mountains b) The North Indian Plains c) The Peninsular Plateau d) The Coastal lowlands and Islands	12
3	Drainage System	a) Himalayan Rivers: Indus , Ganga, Brahmaputra b) East Flowing Rivers: Mahanadi, Godavari, Krishna, Kaveri c) Major West Flowing Rivers: Narmada, Tapi, Mahi d) Minor West Flowing Rivers: originating in Western Ghat	12
4	Climate, Soils and Natural Vegetation	a) Various Seasons and Weather Associated with them b) Types of Soils and its Distribution c) Types of Natural Vegetation and its Distribution	12

Reference Books

1. Aher A.B , Chaodhari A. P & Chaodhari Archna. Regional Geography of India Prashant Publication Jalgaon 2015
2. Deshpande C.D: India-A Regional Interpretation Northern Book Centre, New Delhi.1992.
3. Farmer, B.H.: An Introduction to South Asia. Methuen, London, 1983.
4. Govt. of India: India - Reference Annual, 2001 Pub. Div, New Delhi, 2001.
5. Govt. of India: National Atlas of India, NATMO Publication, Calcutta..
6. Govt. of India: The Gazetteer of India. Vol I & III Publication Division, New Delhi, 1965.
7. Learmonth, A.T.A. et.al(ed.) : Man and Land of South Asia Concept, New Delhi.

8. Mitra, A.: Levels of Regional Development India Census of India, Vol I, Part I-A (i) and (ii) New Delhi, 1967.
9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok, 1993.
10. Shafi, M: Geography of South Asia, McMillan & Co., Calcutta, 2000.
11. Singh, R.L.(ed.): India: A Regional Geography. National Geographical Society. India, Varanasi, 1971.
12. Spate, O.H.K. and Learmonth, A.T.A.; India and Pakistan - Land, People and Economy Methuen & Co., London, 1967.
13. P. G. Saptarshi, J. C. More, V. R. Ugale & A. H. Musmade :A Geographical Region of India : Diamond Publication (2009) (Marathi)
14. Patil S. G., Suryawanshi R. S., Pacharne S., Choudhar A. H. : Economic Geography, Atharav Prakashan, Pune. (2014) (Marathi).
15. Musmade Arjun. H., More J. C., 2015, Geography of India , Diamond, Pune.
16. Musmade, More, (2021), Geography of India-I, Nirali Publication, Pune.

Semester V

Geography of Rural Development -I DSE 1 C (No. of Credits: 03)**Objectives:**

1. To understand the concept, nature and scope of rural development in India.
2. To overview various approaches to rural development.
3. To discuss some important issues related to rural development.
4. To study various schemes and policies for rural health in India.

Course Outcome:

1. Understand the concept, nature and scope of rural development
2. An overview several approaches to rural development.
3. Introduce the significant issues associated to rural development.
4. Study various schemes and policies for rural health

Sr. No.	Topic	Sub Topic	Learning Points	No. of Lectures
1	Introduction	Nature and Scope	a) Concept of Rural Development b) Definition and meaning of Rural Development c) Causes of Rural Backwardness d) Nature and Scope of Rural Development in India	12
2	Approaches to Rural Development in India	Approach	a) Gandhian Approach b) Decentralized Planning Approach c) Sectoral Approach d) Participatory Approach	12
3	Issues of Rural Development	Issues	a) Lack of safe drinking water b) Rural Sanitation Problems and Programs c) Green revolution and its benefits to Urban and Rural Sectors d) Urban-Rural Divide	12
4	Rural Health	Health Care and Services	a) Health Care Services in Rural Areas b) Maternal and Child Health c) National Health Policy of India d) National Rural Health Mission	12

Reference Books

1. Vasant Desai: Rural Development in India, Himalaya Publishing House, Mumbai, 2012.
2. Singh, R.B. (1985): *Geography of Rural Development*. New Delhi, India: Inter India.
3. Mukherjee, Neela. (1993). *Participatory Rural Appraisal: Methodology and Application*. Delhi, India: Concept Pubs. Co.
4. Rural Development Satya Sundaram, Himalaya publication House Mumbai
5. Indian economy R. D. Sudharam Chand and co. Ramnagar New Delhi.
6. Commercial Geography Dr. B.S.Nagi. Kedarnath Ramnath publications Meerut,
7. Human Resource Development T.Y. Rao SAGE Publication New Delhi.

8. Katar Singh -Rural Development –Principles, Policies and Management.
9. Agricultural Geography (second edition) Jasbir singh and S.S. Dhillon Tata mc crow publication
10. Interntation Technology and Globalization S.K. Bansal APII Publishing Corp. Ansari Rd. Dayraganj Delhi.
11. Economic Geography. Sadha –Khan 8. Ruural Energy criai S. Giriappa Himalaya Publishing House Mumbai
12. Anand, Subhash. (2013). *Dynamics of Rural Development*. Delhi, India: Research India Press.
13. Mukundan,N.-Rural Development and Poverty eradication in India.
14. Krishnamurthy, J. (2000). *Rural Development - Problems and Prospects*. Jaipur, India: Rawat Publs.
15. Ramachandran, H., and Guimaraes, J.P.C. (1991). *Integrated Rural Development in Asia–Leaning fromRecent Experience*. New Delhi, India: Concept Publishing.
16. Palione, M. (1984). *Rural Geography*. London, UK: Harper and Row.
17. Dutt and Sundaram- Indian Economy, S.Chand Publications, New Delhi, 2013-07-02.
18. Mishra,S.K. and PuriV.K. - Economics of Development and Planning, Himalaya Publishing House, Mumbai, 2012.
19. K Vijayakumar Empowerment of weaker section future planning and strategies for Rural Development in India.
20. Shankar Chatterjee- Implementation of Rural Development.
21. Gilg A. W., 1985: An Introduction to Rural Geography, Edwin Arnold, London.
22. Misra R. P. and Sundaram, K. V. (eds.), 1979: Rural Area Development: Perspectives
23. Pagar, Thorat, Musmade, More, (2021), Geography of Rural Development-I, Nirali Publication, Pune.

Semester V
Practical Geography- I
(Techniques of Spatial Analysis) DSE- 2 C
(No. of Credits: 04)

Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objective:

1. To introduce the basic concepts and techniques of Geographical Analysis.
2. To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation.
3. To introduce the students with Weather Maps and acquire the Knowledge of its interpretation.
4. To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it .
5. To acquaint students with the spatial and structural characteristics of Practical Geography.
6. To explain the elementary and essential principles on field of practical work.

Course Outcome:

1. Interpret and analysis of survey of India's Toposheet/ map
2. Identify different methods of Relief Representation
3. Describe and analysis of Indian Daily weather maps and their applications.
4. Apply Remote Sensing Techniques in Geography

Note:

1. Students must check the practicals regularly and journal should be certified by practical in-charge and Head of the Department before examination.
2. Use of Map stencils, Log tables, Calculator, Computer, Statistical Tables are allowed at the time of examination.
3. Students without a certified journal should not be allowed for the practical examination.
4. Each of the practical batches needs a separate question paper.
5. Internal and External examiner should set jointly the question paper for each batch.

Sr. No.	Topic	Sub Topic & learning Points	No. of Lectures
1.	Introduction of S.O.I. Toposheet and Relief Representation	a. Introduction of Survey of India Toposheets: Marginal Information, Conventional Signs and Symbols and Colours in S.O.I. Toposheets. b. Types of Toposheets / Indexing of Toposheets c. Methods of Relief Representation i) Qualitative: Hachures, Hill Shading, Layer Tint. ii) Quantitative: Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r) iii) Drawing of Cross Section	15
2.	Interpretation of S.O.I. Toposheets and Data generation	a. Reading of SOI Toposheets from plain, plateau and Mountainous region. (Minimum one Toposheet per region) b. One day field Excursion for orientation of toposheets, observation and Identification of Geographical Features and Preparation of a Brief Report	15
3.	Introduction and Interpretation Weather Maps	a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by Indian Meteorological Department (IMD) c. Isobaric Pattern d. Reading of Weather Map from i) Summer ii) Monsoon iii) Winter Season (Minimum one weather map from each season)	15
4.	Introduction and Application of GIS and Remote Sensing Techniques	a. Definition and Components of GIS b. GIS Data Types (spatial and non-spatial), Raster and Vector data c. Introduction of Aerial Photographs & Satellite Images d. Use of Computer open source Software for GIS and RS techniques in Geography	15

Reference Books:

1. Ahirrao, D. Y. and Karanjkele, E.K., 2002. Pratyakshik Bhugol, Sudarshan Publication, Nashik.
2. Buoygoot, J. 1964., An Introduction to Map work and Practical Geography, University Tutorial, London.
3. Burrough, P. A., and McDonnell, R. A., 2000. Principles of Geographical Information System, Oxford University Press.
4. Curran, P. 1989., Principles of Remote Sensing, Logman, London.

5. Dickinson, G. C., 1979, Maps and Air Photographs, Arnold Publisher, New Delhi.
6. Dr. P. G. Saptrashi and Dr. S. R. Jog., 1991, Statistical Methods (Marathi)
7. Ebdon, D., 1977. Statistics in Geography: A Practical Approach, Basil Blackwell, Oxford.
8. Kumbhar, A., 2000. Pratyakshik Bhugol, Sumeru Publications, Mumbai.
9. Lillesand, T. M. and Kiefer, R. W., 2002. Remote Sensing and Image Interpretation, John Wiley and Sons, New Delhi.
10. Lutgens, F. K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice hall, Englewood Cliffs, New Jersey, USA.
11. Monkhouse, F. J. and Wilkinson, H. R. 1971. Maps and Diagrams. Methuen and Co. Ltd. London, UK.
12. Ramamurthy, K., 2006. Map Interpretation, Rex Printers, Madras.
13. Siddhartha, K., 2006. Geography Through Maps, Kisalaya Publication, Pvt. Ltd, New Delhi.
14. Singh L. R. and Singh R., 1973. Map Work and Practical Geography, Central Book Depot, Allahabad.
15. Singh R. L. and Dutt, P.K., 1968. Elements of Practical Geography, Students Friends, Allahabad.
16. Singh R. L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi.
17. Singh, G., 2005. Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
18. Strahler, A. A. and Strahler, A. N., 2002. Physical Geography. Science and Systems of the Human Environment, John Wiley & Sons, INC.
19. Strahler, A. H. and Strahler, A. N., 1992. Modern Physical Geography. John. Wiley & Sons, INC.

Semester V
SEC 2 C
Value/Skill based Course
Research Methodology - I
CREDIT - 2

Objectives:

1. To develop the understanding of the basic concept of research
2. To develop the understanding of the basic framework of sampling and data collection
3. To develop the understanding of various sampling methods and techniques

Course Outcome:

1. To develop the understanding of the basic concept of research
2. To develop the understanding of the basic framework of sampling and data collection
3. To develop the understanding of various sampling methods and techniques
4. To identify various sources of information about data collection.
5. Understanding of the conducting survey on various issues and develop the Report writing skill

Topic No.	Topic	Sub-Topic	No. of Lectures
1	Introduction to Research Methodology	i. Meaning and Objectives of Research ii. Characteristics of Research iii. Types of Research iv. Various Steps in Research Process	10
2	Research Design	i. Introduction of Research Design ii. Purpose of Research Design iii. Characteristics of Good Research Design	10
3	Research Problem	i. Definitions of Research Problem ii. Identification of a Research Problem iii. Technique Involved in Defining a Research Problem	10

References

1. Montello Daniel R. and Sutton Paul C. (2006) – Introduction to scientific research Methods if Geography. By Saga Publication
2. Kothari , C. R. (2004) – Research Methodology -Methods and techniques, New Age.
3. Mishra, H.N. and Sing, V.P. (1998)- research Methodology in Geography, Rawat Publication
4. Clifford, N. Fresh S, Valentine, G. (2010) - Key Methods in Geography , Saga Publication
5. Gregory , K. J. (2000) – The changing Nature of Physical Geography, Arnold,London
6. Gomez basil and Jones, III John Paul (editor) (2010) – Research Methods ingeography : A Critical, Wiley – Blackwell
7. Harvey, David (1971) – Explanation in Geography, Edward Arnold , London
8. Chorley, R. J. and P. Hagg-tt(ed) (1967) – Models in Geography , Methuen

Semester VI

T.Y.B.A. (Geography) Choice Based Credit System Syllabus

be implemented from Academic Year 2021-2022

Paper Code	Semester	Paper	Subject
Gg: 310(B)	VI	CC1F	Geography of Disaster Management-II OR Geography of Tourism -II
Gg: 320(B)	VI	DSE 1D	Geography of India -II OR Geography of rural development -II
Gg: 301(B)	VI	DSE 2D	Practical Geography – II (Techniques of Spatial Analysis, Surveying and Excursion / Village / Project Report
(Value/skill based course)		SEC 2 D	Research Methodology – II

Semester VI**Geography of Disaster Management-II CC1F (No. of Credits: 03)****Course Outcome:**

1. Describe concepts of anthropogenic disaster, its types, causes and management.
2. Explain important global level disasters i.e, acid rain, ozone depletion and global warming.
3. Demonstrate Disaster Management at local level.
4. Suggest methods of protection from disaster and will be able to do disaster management.

Sr. No.	Topic	Learning Points	No. of Lectures
1	Geological and Geomorphic disasters and their management	a) Earthquakes b) Landslides c) Tsunami	12
2	Anthropogenic disasters and their management	a) Deforestation b) Forest fire c) Soil degradation	12
3	Global Environmental issues	a) Global warming b) Ozone depletion c) Marine Pollution	12
4	Case Studies of disaster	a) Tsunami in Indian Ocean -2004 b) Fukushima Nuclear Disaster -2011 c) Kedarnath Cloud Burst -2013	12

Reference books:

- Alexander, D. (1993): Natural Disasters. UCL Press Ltd., London
- Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
- Chandna, R. C., 2000. A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
- Copola P Damon, 2007, Introduction to International Disaster Management
- Cuny, F. 1983, Development and Disaster, Oxford University Press.
- Govt. of India, 2005, Disaster Management Act Government of India, New Delhi.
- Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
- Huggett, D.A., 2004. Fundamentals of Biogeography, Routledge.
- Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
- Knox, P. and Agnew J., 1998. The Geography of the World Economy, Arnold, London.
- Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice Hall, Englewood Cliffs, New Jersey, USA.
- Ross, D. A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
- Saptarshi P. G., More J. C., Ugale V. R. and Arjun Musmade (2009), "Geography and Natural Hazard" Diamond, Pune.
- Savindra Singh, (2000): Environmental Geography. PrayagPustakBhavan, Allahabad
- Singh, S., 1998. Geomorphology, PrayagPustakBhavan, Allahabad.
- Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
- A.H.Choudhar ,P.N.Salve, S.M.Kadam.R.H.Choudhar,V.C.Ithape (2010), "Contemporary Issues and Geography",Atharva ,Pune.
- Musmade Arjun. H., More J. C., 2014, Geography of Disaster Management, Diamond, Pune.
- More, Musmade, Muluk, Doke, (2021), Geography of Disaster Management-II, Nirali Publication, Pune.

Geography of Tourism- II CC1F(No. of Credits: 03)

Objectives:

1. To understand the activities of Tourism
2. To introduce the students to the basic concepts in Tourism Geography.
3. To understand the types of Tourism
4. To gain knowledge different aspects of Tourism Geography.

Course Outcome:

1. Understand the accommodation types.
2. The students should be able to integrate various factors of economic development and dynamic aspect of tourism geography.
3. Understand the planning and policy of tourism word wide.
4. To make aware the students about some Hill Station, Historical and National Parks

Sr. No.	Topic	Sub Topic & Learning Point	No. of Lectures
1.	Role of Accommodation in Tourism	a) Accommodation Types <ol style="list-style-type: none"> i. Hotels, Motels, Inn, Dharmashalas, Youth Hostel ii. Govt. Accommodation, Tourist Homes iii. Private accommodations and unrecognized accommodations b) Factors affecting choice of Accommodation c) Role of Accommodation in Tourism Development	12
2.	Impact of Tourism	a) Economic impacts <ol style="list-style-type: none"> i. Effect on foreign exchange ii. Employment generation iii. Infrastructure development b) Physical and Environmental impacts <ol style="list-style-type: none"> i. Land Degradation ii. Impacts on Bio-diversity iii. Air and water pollution c) Social cultural impacts <ol style="list-style-type: none"> i. Crime and Gambling activities ii. Languages iii. Traditional arts 	12
3.	Planning and Policies of tourism development	a) World Tourism Organization (WTO) b) India Tourism Development Corporation (ITDC) c) Maharashtra Tourism Development Corporation (MTDC)	12
4.	Case studies of Major Tourist Centers in India	a) Hill Station- Manali and Mahabaleshwar b) Historical- Tajmahal and Raigadh Fort c) National Parks- Kaziranga, Melghat d) Preparation of Tourist Plan on any of above tourist destination	12

Reference Book

1. A Geography of Tourism: Robinson H. (1996)
2. Tourism Development, Principles and Practices: Bhatia A.K., Sterling Publisher Ltd., New Delhi
3. Geography of Tourism and Recreation: S. N. Singh (1985)
4. Tourism Today: A Geographical Analysis: Douglas Pearce (1987)
5. Tourism: Economic Physical and Social Impact: Mathieson A. and Wall C, Logman, U.K.
6. India: A Tourist Paradise: Manoj Das.
7. Tourism Today: An Indian Perspectives: Maneet Kumar
8. Geography of Travel and Tourism: Hudman L.E.
9. Successful Tourism Management: Seth P.N. (1985) Sterling Publisher Ltd., New Delhi.
10. Tourism Analysis: Smith S.L.J.
11. Tourism in India: Gupta V.K.
12. Dynamics of Tourism: Kaul R. N., Sterline Publisher Ltd.
13. Muluk, Doke, Musmade, More (2021), Geography of Tourism – II, Nirali Publication, Pune.
14. Geography of Tourism: S.B. Shinde, Phadke Prakashan, Kolhapur

Semester VI
Geography of India -II DSE1 D (No. of Credits: 03)

Objective:

1. To acquaint the students with geography of our Nation.
2. To make the student aware of the magnitude of problems and Prospects at National level.
3. To help the students to understand the inter relationship between the subject and the society.
4. To help the students to understand the recent trends in regional studied

Course Outcome:

1. Explain the importance of geography of our Nation.
2. Make the aware of the magnitude of problems and Prospects at National level.
3. Identify the inter relationship among the subject and the society.
4. Understand the current trends in regional studied
5. Realize about diversity of our nation i.e. Religious, Languages, Tribes etc
6. Acquaint the knowledge about different types of resources and their utility

Sr. No	Unit	Subunit	No. of Lectures
1	Cultural Setting	a) Religions of India b) Languages of India c) Major tribes, tribal areas and their problems : Naga and Gond Tribe	12
2	Transportation and Communication	a) Land ways, Airways and Waterways b) Role of Transportation in regional development of India c) Developments in communication technology	12
3	Resources	a) Iron ore and Manganese b) Coal and Petroleum c) Hydro Power and Thermal Power	12
4	Agriculture	a) Significance of agriculture in Indian Economy. b) Agro Based Industries: Sugar, Cotton and Textile c) Agriculture Revolution in India: Green, White and Blue	12

Reference Books

1. Aher A.B , Chaodhari A. P & Chaodhari Archana. Regional Geography of India Prashant Publication Jalgaon 2015
2. Deshpande C.D: India-A Regional Interpretation Northern Book Centre, New Delhi.1992.
3. Farmer, B.H.: An Introduction to South Asia. Methuen, London, 1983.
4. Govt. of India: India - Reference Annual, 2001 Pub. Div, New Delhi, 2001.

5. Govt. of India: National Atlas of India, NATMO Publication, Calcutta..
6. Govt. of India: The Gazetteer of India. Vol I & III Publication Division, New Delhi, 1965.
7. Learmonth, A.T.A. et.al(ed.) : Man and Land of South Asia Concept, New Delhi.
8. Mitra, A.: Levels of Regional Development India Census of India, Vol I, Part I-A (i) and (ii) New Delhi, 1967.
9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok, 1993.
10. Shafi, M: Geography of South Asia, McMillan & Co., Calcutta, 2000.
11. Singh, R.L.(ed.): India: A Regional Geography. National Geographical Society. India, Varanasi, 1971.
12. Spate, O.H.K. and Learmonth, A.T.A.; India and Pakistan - Land, People and Economy Methuen & Co., London, 1967.
13. P. G. Saptarshi, J. C. More, V. R. Ugale & A. H. Musmade :A Geographical Region of India : Diamond Publication (2009) (Marathi)
14. Patil S. G., Suryawanshi R. S., Pacharne S., Choudhar A. H. : Economic Geography, Atharav Prakashan, Pune. (2014) (Marathi).
15. Musmade Arjun. H., More J. C., 2015, Geography of India , Diamond, Pune.
16. Musmade, More, Munde, Thakare, (2021), Geography of India-II, Nirali Publication, Pune.

Semester VI**Geography of Rural Development II DSE 1 D (No. of Credits: 03)****Objectives-**

1. To study the problems and policies related to education in rural areas.
2. To create awareness among the students about various area development programmes and Target Group Programmes implemented in India.
3. To create a positive approach for rural development among the students through the examples of successful case studies.

Course Outcome:

1. Study various schemes and policies for rural health
2. Recognize the problems and policies related to education in rural areas.
3. Create awareness among the students about various area development programmes and
4. Target Group Programmes implemented in India.
5. Develop a positive approach for rural development through with examples of successful case studies.

Sr. No.	Topic	Sub Topic	Learning Points	No. of Lectures
1	Education in Rural Areas	Problems and Prospects	a) Problems in School Education b) School Dropouts c) Girl Child Education d) Sarva Siksha Abhiyan: National Literacy Mission	12
2	Area Development Programmes:	Programmes	a) Drought Prone Area Programme b) Command Area Development Programme c) Desert Development Programme d) Hill Area Development Programme	12
3	Target Group Programmes	Programmes	a) Suwarnajayanti Gram Swoyam Rojgar Yojana b) National Rural Livelihoods Mission c) Micro Finance d) Self-help Groups for Women Empowerment	12
4	Case Studies:	Case Studies	a) Study of a successful case: Hivare Bazar b) Study of successful case: Mendhalekha c) Study of people's movement: Chipco movement d) Study of your own village to highlight issues and remedial measures of Rural area development	12

Reference Books

1. Vasant Desai: Rural Development in India, Himalaya Publishing House, Mumbai, 2012.
2. Singh, R.B. (1985): *Geography of Rural Development*. New Delhi, India: Inter India.
3. Mukherjee, Neela. (1993). *Participatory Rural Appraisal: Methodology and Application*. Delhi, India: Concept Publs. Co.
4. Rural Development Satya Sundaram , Himalaya publication House Mumbai
5. Indian economy R. D. Sudharam Chand and co. Ramnagar New Delhi.
6. Commercial Geography Dr. B.S.Nagi. KedarnathRamnath publications Meerut,
7. Human Resource Development T.Y. Rao SAGE Publication New Delhi.
8. Katar Singh -Rural Development –Principles, Policies and Management.
9. Agricultural Geography (second edition) Jasbir singh and S.S. Dhillon Tata mc crow publication
10. Interntation Technology and Globalization S.K. Bansal APII Publishing Corp. Ansari Rd. Dayraganj Delhi.
11. Economic Geography. Sadha –Khan 8. Ruural Energy criai S. Giriappa Himalaya Publishing House Mumbai
12. Anand, Subhash. (2013). *Dynamics of Rural Development*. Delhi, India: Research India Press.
13. Mukundan,N.-Rural Development and Poverty eradication in India.
14. Krishnamurthy, J. (2000). *Rural Development - Problems and Prospects*. Jaipur, India: Rawat Publs.
15. Ramachandran, H., and Guimaraes, J.P.C. (1991). *Integrated Rural Development in Asia–Leaning fromRecent Experience*. New Delhi, India: Concept Publishing.
16. Palione, M. (1984). *Rural Geography*. London, UK: Harper and Row.
17. Dutt and Sundaram- Indian Economy, S.Chand Publications, New Delhi, 2013-07-02.
18. Mishra,S.K. and PuriV.K. - Economics of Development and Planning, Himalaya Publishing House, Mumbai, 2012.
19. K Vijayakumar Empowerment of weaker section future planning and strategies for Rural Development in India.
20. Shankar Chatterjee- Implementation of Rural Development.
21. Gilg A. W., 1985: An Introduction to Rural Geography, Edwin Arnold, London.
22. Misra R. P. and Sundaram, K. V. (eds.), 1979: Rural Area Development: Perspectives
23. Pagar, Thorat, More, (2021), Geography of Rural Development-II, Nirali Publication, Pune.

Semester VI**Practical Geography- II (Techniques of Spatial Analysis, Surveying and Excursion /Village/ Project Report) DSE- 2 D****(No. of Credits: 04)****Course Outcome:**

1. Create the awareness about the open source software and techniques of visualization
2. Describe basic of Statistical data and the skill of data representation
3. Calculate Central Tendency, Variance and Standard Deviation, Correlation and Regression, and Testing of Hypothesis
4. Conduct Survey of socio-economic conditions of a village/ field investigation and report writing.

Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Sr. No.	Topic	Sub Topic & learning Points	No. of Lectures
1.	Geographical Data and its Basic Analysis	a. Introduction and Types of Geographical Data: i) Spatial and Temporal data ii) Discrete and Continuous series iii) Ungrouped and Grouped data b. Basic Analysis : i) Tally marks and frequency table ii) Frequency distribution (Histogram and Polygon) iii) Cumulative Frequency & Ogive curve	15
2.	Measures of Central Tendency and Dispersion	a. Meaning and description of central tendencies- Mean, Mode and Median b. Measures of Mean, Mode, Median for ungrouped and grouped data (two examples each) c. Measures of Dispersion: Ungrouped and Grouped data, Mean Deviation and Standard Deviation (two exercise each)	15
3.	Testing and Application of Hypothesis	a) Meaning, Definition of Hypothesis and Types of Hypothesis: i) Null and Alternative hypothesis ii) Level of significance, iii) Degrees of freedom in Hypothesis b) Concept of Correlation and Regression i. Concept of bivariate correlation and Regression ii. Meaning of coefficient of correlation iii. Parametric and Non parametric test: Chi-square test (two examples each) iv. Calculation of Spearman Rank order (Min. two examples for each test)	15

4.	Field Excursion / Village Survey	<p>a. One Short tour of two days duration and preparation of tour report OR</p> <p>b. One long tour of more than Five days duration anywhere in the country and preparation of tour report OR</p> <p>c. Village / City / Area Survey and preparation of report</p>	15
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Reference Books:

1. Acevedo, M. F., 2012. Data Analysis and Statistics for Geography, Environmental Science and Engineering, CRC Press.
2. Ahirrao, D. Y. and Karanjkehele, E.K., 2002. Pratyakshik Bhugol, Sudarshan Publication, Nashik.
3. Creswell J., 1994. Research Design: Qualitative and Quantitative Approaches, Sage Publications.
4. Dikshit, R. D., 2003. The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
5. Hammond, R. and McCullagh, P. S., 1977. Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford.
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7. Jog. S. R. and Saptarshi, P. G., 1980. Sankhikhi Bhugol, Narendra Publication, Pune.
8. Karlekar, S. N. and Kale, M., 2006. Statistical Analysis of Geographical Data, Diamond Publication, Pune.
9. Kumbhar, A., 2000. Pratyakshik Bhugol, Sumeru Publications, Mumbai.
10. Mc Grew Jr., J. C., Lembo Jr., A. J., Monroe, C. B. 2014. An Introduction to Statistical Problem solving in Geography, 3rd ed, Waveland Press.
11. Pal. S. K., 1998. Statistical Methods for Geoscientists: Techniques and Applications, Concept Pub.co.
12. Robinson, A., 1998. "Thinking Straight and Writing That Way", in Writing Empirical Research Reports: A basic guide for students of the Social & Behavioral Sciences, eds. By F. Pryczak & R. Bruce Pryczak, Publishing, Los Angeles.
13. Rogerson, P. A., 2015. Statistical Methods for Geography: A Student's Guide, 4th ed, Sage.
14. Sarkar, A. 2015. Practical Geography: A Systematic Approach, 3rd ed, Orient Blackswan.
15. Singh R. L. and Dutt, P.K., 1968. Elements of Practical Geography, Students Friends, Allahabad.
16. Singh R. L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi.
17. Stoddard, R. H., 1982. Field Techniques and Research Methods in Geography, Kendall/Hunt.
18. Wokcatt, H. 1995. The Art of Fieldwork, Alta Mira Press, Walnut Creek, CA.

Semester VI
SEC 2 D
Value/ Skill based Course
Research Methodology – II
CREDIT - 2

Objectives:

1. To identify various sources of information for data collection.
2. Understanding of the conducting survey on various issues and develop the Report writing skill of students

Course Outcome:

1. To develop the understanding of the basic concept of research
2. To develop the understanding of the basic framework of sampling and data collection
3. To develop the understanding of various sampling methods and techniques
4. To identify various sources of information about data collection.
5. Understanding of the conducting survey on various issues and develop the Report writing skill

Sr. No.	Topic	Sub-Topic	No. of Lectures
		A) Primary Data Questionnaire Method and Field Visit i.) Questionnaire – definition	
1	Methods of Data Collection	ii.) Characteristics of a good questionnaire iii.) Merits and demerits Questionnaire method	
		B) Secondary Data i) Government Sources	10
		ii) Syndicated Sources iii) Other types of Sources	
2	Types of Research Report	i. Dissertation and Thesis ii) Research paper, review article iii) Characteristics of good Research Report Writing	10
3	Techniques of Research Report Writing	i) Structure and organization of research reports: Title, abstract, key words ii) Introduction, Methodology, results, discussion, conclusion, references, footnotes iii) Concepts of Case Study	10

References

1. Gaum, Carl G., Graves, Harold F., and Hoffman, Lyne, S.S., (1950): Report Writing, 3rd ed., New York: Prentice-Hall.
2. Kothari, C.R. (2004): Research Methodology: Methods and Techniques, New Age International (P) Ltd., New Delhi – 110002.
3. Kothari, C.R., (1984): Quantitative Techniques, 2nd ed., New Delhi: Vikas Publishing House Pvt. Ltd.
4. Mishra Shanti Bhushan and Shashi A. (2011): Handbook of Research Methodology, Education Publishing, New Delhi – 110075.
5. Pandey, P. and Pandey, M.M. (2015): Research Methodology: Tools and Techniques, Bridge Center, Romania, European Union.
6. Tandon, B.C., (1979): Research Methodology in Social Sciences. Allahabad, Chaitanya Publishing House.
7. Ullman, Neil R. (1978): Elementary Statistics, New York: John Wiley & Sons, Inc.
8. Yamane, T., Statistics (1973): An Introductory Analysis, 3rd ed., New York: Harper and Row.