परिप्रेक्ष्य

या परिप्रेक्ष्य के अनुसार सबसे संबंधित तृतीय वर्ष C.B.C.S. (Choice Based Credit System) Pattern नुसार 2018-19 पासून लागू करण्यात येते है. या परिप्रेक्ष्य या तरीके मानवविज्ञान विषयांकन वर्ष 2018-19 के लिए आवश्यक है.

1) हिंदी
2) तंगी
3) कन्नड
4) मराठी
5) पालि
6) संस्कृत
7) उर्दू
8) अंग्रेजी
9) भिदोल
10) जिवहास
11) सैनिकशास्त्र
12) तत्त्वज्ञान
13) राजविज्ञान
14) लोकप्रशासन
15) समाजशास्त्र

सदरील परिप्रेक्ष्य व अभ्यासक्रम प्रस्तुत शिक्षणपूर्ण वर्ष 2018-19 के लिए आवश्यक है। यह सदरील बाबा ही सब संबंधित निदर्शनास जो कविताओं का आधार है।

'जानती' पारिप्रेक्ष्य,
विभाग: नागरी — ४३९ ६०६.
जारा: राजस्थानी—११/परिप्रेक्ष्य/पाठ्य—विद्यायोंक्ष अभ्यासक्रम/ 2018-19/२५२

dिनांक: २५.०६.२०१८.

उपकुलसाधित शैक्षणिक (१—अभ्यासमंदः) विभाग

प्रत माहिती व पुढील कार्यावाहिनी येते होते:
1) मार्ग तुल्य याचे कार्यालय, प्रस्तुत विद्यापीठ.
2) मार्ग मूल व मूलभूत मंडळ याचे कार्यालय, प्रस्तुत विद्यापीठ.
3) प्रारंभ, सर्व संबंधित संलग्नत महाविद्यालय, प्रस्तुत विद्यापीठ.
4) उपकुलसाधित, पदव्युत्तर उपकार, प्रस्तुत विद्यापीठ.
5) सार्वज्यक तुल्य विभाग, पात्रता विधान, प्रस्तुत विद्यापीठ.
6) सिस्टम एसप्लेट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

विद्यापीठ का आवश्यक विभागों की गांगुली होते.
SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

SYLLABUS

GEOGRAPHY

B.A. THIRD YEAR

SEMESTER PATTERN
(Choice Based Credit System)

With Effect From: June, 2018
<table>
<thead>
<tr>
<th>Semester</th>
<th>Core Course</th>
<th>Paper No.</th>
<th>Name of the Paper</th>
<th>Lectures/ Week</th>
<th>Total No. of Lect.</th>
<th>CA</th>
<th>ESE</th>
<th>Total Marks</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>DSE GEOG-I</td>
<td>XIII</td>
<td>Development of Geographical Thought – Part I  <strong>OR</strong> Agricultural Geography</td>
<td>04</td>
<td>60</td>
<td>10</td>
<td>40</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>V</td>
<td>GE GEOG-I</td>
<td>XIV</td>
<td>Geography of India – Part- I</td>
<td>04</td>
<td>60</td>
<td>10</td>
<td>40</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>V&amp;VI</td>
<td>DSE GEOG-II</td>
<td>XV</td>
<td>Practical Geography XV-Projections XVIII-Surveying</td>
<td>3+3 (Per Batch)</td>
<td>90</td>
<td>10</td>
<td>40</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>V</td>
<td>SEC</td>
<td>III</td>
<td>An Introduction to Research Methodology  <strong>OR</strong> Watershed Management</td>
<td>03</td>
<td>45</td>
<td>25</td>
<td>25</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>Semester – V Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17</td>
<td>255</td>
<td>55 145 200</td>
<td>08</td>
</tr>
<tr>
<td>VI</td>
<td>DSE GEOG-III</td>
<td>XVI</td>
<td>Development of Geographical Thought – Part II  <strong>OR</strong> Political Geography</td>
<td>04</td>
<td>60</td>
<td>10</td>
<td>40</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>VI</td>
<td>GE GEOG-II</td>
<td>XVII</td>
<td>Geography of India – Part II</td>
<td>04</td>
<td>60</td>
<td>10</td>
<td>40</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>V&amp;VI</td>
<td>DSE GEOG-IV</td>
<td>XVIII</td>
<td>Practical Geography XVII-Statistical Methods XVIII-Application of Computer and GIS in Geography</td>
<td>3+3 (Per Batch)</td>
<td>90</td>
<td>10</td>
<td>40</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>VI</td>
<td>SEC</td>
<td>IV</td>
<td>Disaster Management  <strong>OR</strong> Interpretation of Aerial Photography and Satellite Imagery</td>
<td>03</td>
<td>45</td>
<td>25</td>
<td>25</td>
<td>50</td>
<td>02</td>
</tr>
<tr>
<td>Semester – VI Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17</td>
<td>255</td>
<td>55 145 200</td>
<td>08</td>
</tr>
</tbody>
</table>

*CC= Core Course, CA= Continuous Assessment (Internal), ESE= End Semester Examination.*
Note:
1. Total working days in a semester are 90
2. Total working weeks in a semester are 15
3. Continues Assessment for each paper = 10 Marks
4. End Semester Examination for each paper = 40 Marks

INSTRUCTIONS:
1. Teaching workload shall be of four periods per week for each theory paper and six periods (03+03) per week for practical.
2. Strength of students for each practical batch shall not be more than 15 (fifteen).
3. Students shall not be allowed for practical examination without certified journal (Practical Book).
4. Total periods for each theory paper shall be 60 per semester.
5. Total periods for each practical paper of 50 marks shall be 90 per year per batch.
6. Practical examination will be held at the end of the academic year (May be in February/March for both paper i.e. paper no. XV and XVIII).
7. CA (Continuous Assessment) Pattern for each paper (including practical paper) - one test and one home assignment of 5 marks each.
Salient Features

1. The aim of this course is to introduce the students with development of geographical thoughts from ancient to modern times. To know the development of various branches of human and physical geography

Utility

1. To help students to know the evolution of geographical knowledge which helps them in analyzing, planning and prediction of various geographical aspects

Learning Objectives

1. To develop the skills among the students to imbibe the classical knowledge and its applicability in the present world
2. To know the contribution of geographers across the globe to the development of geography

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit-I A Brief History of Geographical Thought 20 Periods

1. Greek: Aristotle and Eratosthenes
2. Roman: Strabo and Ptolemy
3. Arab: Al-Biruni and Al-Idrisi
4. India: Aryabhat, Varhamir, Brahmgupta and Bhaskaracharya,

Unit-II Contribution of Modern Geographers 20 Periods

1. British: Halford John Mackinder and Sir Dudley Stamp
2. German: Alexander Von Humboldt and Carl Ritter
3. French: Vidal-de-la-Blache and Jean Brunches
4. American: W.M. Davis and Richard Hartshorne

Unit-III Major Concepts in Geography 20 Periods

1. Determinism
2. Possibilism
3. Neodeterminism
Suggested Reading:

1) Adhikari Sudeepta: Fundamentals of Geographic Thought-
   Chaitanya Publishing House, Allahabad (1972)

2) Dickinson, R.E.: The Makers of Modern Geography Routledge &

   India Limited. 1999.

4) Free Man. T.W.: Geography as Social Science, Harper
   York (1965).

5) Dr. Koushik: भौगोलिक विचारधाराएँ एवं विज्ञान

6) Dr. Mamoria and Jain: भौगोलिक चित्रण एवं तीन दक्षिणी महाद्वीप

7) Dr. Brij. Chandra Prakash
   Dr. K. K. Kanwar
   Dr. R. Singh
   Pr. Vasant Ugarde
   संस्था प्रकाशन, उदगीर जी.जी.लातूर

8) Dr. K. K. Kanwar
   Dr. Mankar
   संस्था संग्रहालय

9) Sud. Siddes: आधुनिक भौगोलिक विकास

10) Mohan G. G.: राजकीय भौगोलिक, कैलास पत्रिकेशन औरंगाबाद
Salient Features
1. The aim of this course is to introduce the students with knowledge of origin and evolution of agriculture in different parts of the world and their limitations

Utility
1. To know the various agricultural determinants, land capability and crop suitability in different parts of the world

Learning Objectives
1. To know the major agricultural issues in India and to develop strategy to solve them
2. To know the different agricultural theories and their applicability in the present times

Prerequisites
1. Books, Maps, Globe,
2. ICT

Unit I Introduction 15 periods
1. Definition, nature and scope of agricultural geography
2. Approaches to study agricultural geography.
3. Origin and evolution of agriculture

Unit II Agricultural Determinants 15 periods
1. Determinants of Agricultural Landuse
2. Physical determinants
3. Socio-economic determinants
4. Technological determinants

Unit III Agricultural Regionalization and Theory 15 periods
1. Methods of agricultural regionalization, crop concentration, crop diversification, agricultural productivity.
2. Von-Thunen’s Theory of agricultural location
3. Recent modification in Von-Thunen’s model

Unit IV Major issues in Indian Agriculture 15 periods
1. Green revolution
2. White revolution
3. Environmental degradation
**Suggested Reading:**

1. Symons : Agricultural Geography
2. Morgan & Munton : Agricultural Geography
3. Mamoria C.B. : Geography of India
4. Noor Mohammad : Perspective in Agricultural Geography
5. Majid Husain : Agricultural Geography
6. Dr. Jainendra Kumar : Landuse Analysis
8. तिवारी सिंह : कृषी भूगोल, प्रयाग पुस्तक भवन, हलाहाल
9. चंद्रशेखर यादव : कृषी भूगोल, विश्वभारती प्रकाशन, नई दिल्ली
10. नेगी बी.एस. : संसाधन भूगोल, केंद्रीय रामनाथ, नई दिल्ली
11. दाते -सी.दाते : सुगम शोली भूविज्ञान
12. देशमुख पी.जी. : भारतीय फलझाडंची लागवड
13. सवदी-के.चे : कृषी भू-विज्ञान
14. फुले सुरेश : कृषी भूगोल
B. A. Third Year  
Semester-V  
GE GEOG-I, Paper No.-XIV  
Geography of India Part-I  

Salient Features  
1. The aim of this course is to introduce the students with location and physical settings of India and to understand the significance of unity in the diversity  
2. To acquaint the students with regional knowledge of India  

Utility  
1. To appreciate the regional diversity and to develop acclimatizing temperament among the students  

Learning Objectives  
1. To know the physical regions, climatic regions and natural resources of India  
2. To bring awareness among the students for judicious and optimum use of natural resources and adherence to sustainable development  

Pre-requisites  
1. Books, Maps, Charts, Models  
2. Field visits  
3. ICT  

Unit I Location and Physical Regions and Drainage  
20 Periods  
1. India in the context of south-east & south Asia  
2. India a land of diversities; unity within diversity  
3. Physical regions of India  
4. Drainage systems of India  

Unit II Climate and Climatic Regions  
20 Periods  
1. Regional and seasonal variations of climate  
2. The monsoon, western disturbance, nor-westers  
3. Climatic regions of India according to Koppen  

Unit III Natural Resources  
20 Periods  
1. Soil types and their characteristics and distribution  
2. Vegetation types and their distribution  
3. Forests, water, minerals and power resources-the status of their use and need for conservation.
**Suggested Readings:**

14. डॉ.एस.टी.शेट : भारताचा भूगोळ, अभिन्नीत प्रकाशन, लातूर
15. केचे पांडूरंग : भारताचा भूगोळ, पिंपड़ापूरे प्रकाशन, ओऱंगावाद.
Salient Features
   1. The aim of this course is to introduce the students with knowledge of making of Projections
   2. To know the characteristics and uses of different projections

Utility
   1. To know the use of particular projection for making particular map

Learning Objectives
   1. To know the skills of construction of projection and map making
   2. To use different projections for the representation of different parts of the globe

Pre-requisites
   1. Books, Maps, Globe
   2. Geometry box, ICT

-----------------------------------------------------------------------------------

Paper XV - Projections

Unit I  Introduction                      25 Periods
   Projection, Definition, Classification and construction (By Graphical method only).
   Properties and use of the following projections.

Unit II  Zenithal Polar Gnomonic Projection
         Zenithal Polar equal area Projection

Unit III Conical Projection with one Standard Parallel.
          Bonne’s Projection

Unit IV  Cylindrical Equal area Projection
          Mercator’s Projection

Paper XVIII - Surveying                    20 Periods

Unit I  Chain-tape Survey-open and close traverse.

Unit II Plane table survey-intersection method-open and close traverse.

Unit III 1. Prismatic compass survey-open and close traverse.
         2. Bowditch’s method with correction of bearing.
         3. Conversion of bearing. Whole circle bearing to Quadrant bearing & Vice versa.
**Suggested Reading:**

1. Sing and Singh : Mapwork and Practical Geography
3. Hammod & Mc Gullah : Quantitative Techniques in Geography
7. डॉ. नागलौंड / डॉ. लांजेवार : नकाशाशास्त्र व प्रात्येकिक्षक भूगोलशास्त्र, पिप्पापुरे अंड कं. पब्लिकेशन, नागपूर.
8. महाजन वायु.आर. : सांख्यिकी, पिप्पापुरे प्रकाशन,नागपूर
9. डॉ. कनकुरे, डॉ. मानकरी/रमेश मुगावे : प्रात्येकिक्षक भूगोल, अरुणा प्रकाशन, लातूर.
10. जे.पी. शर्मा : प्रात्येकिक्षक भूगोल, रस्तोंगी प्रकाशन, मेरठ
11. हिरालाल बादव : प्रात्येकिक्षक भूगोल
Salient Features
1. The aim of this course is to introduce the students with basic nature of research methodology
2. To develop skills of research report writing

Utility
1. To enable students with the basic idea of data collection, analysis and interpretation skills

Learning Objectives
1. To develop the temperament among the students to study the subjects in a systematic and scientific way

Pre-requisites
1. Books, Maps, Charts
2. Field survey and ICT

Unit-I Introduction 15 Periods
1. Definition, Nature, Scope and Significance of research and Types of Research
2. Geographical Enquiry

Unit-II Data Collection 15 Periods
1. Importance of data in research. Types and Sources of Data
2. Methods of Collection of Data: Primary and Secondary
3. Data Analysis and Data Representation Techniques: Statistical and Cartographic Techniques

Unit-III Structure and Preparation of Research Report 15 Periods
1. Selection of Topic, Statement of Problem, Review of Literature, Objectives, Methodology,
2. Data Collection and Analysis, Conclusion and Suggestions
3. Reference, Bibliography, Annexure

Suggested Reading:
4. डॉ. पद्मप्रकाश आगल दे, संशोधन पद्धती शक्ति व तंत्रे
5. डॉ० नीलम धूरी, संशोधन पद्धती, फडके प्रक्रिया शनि, कोल्हु पृ 2008
6. सद परहे दे, संशोधन सिद्धार्थ त आणि पद्धती
Salient features

1. Watershed management is need of the time. It is useful to conserve soil moisture, to recharge the aquifers, to control soil erosion, it acts as a drainage channel during heavy rains and allows percolation

Utility

1. It will help to increase agriculture land and agriculture produce, to conserve the wildlife, grassland, forestry, to maintain environmental balance and to eradicate draught prone areas

Objectives

1. To manage and utilize the runoff water, to protect, conserve and improve the land of watershed, to moderate the floods peaks at down stream area, to rehabilitate the water supply schemes in rural areas and to create water balance sheet for rural area

Pre-requisites

1. Books
2. Maps, Models,
3. Field Visit and ICT

Unit I Introduction and Concept of Watershed Management 10 Periods

1. Definition, aims and objectives of watershed management
2. Need for watershed management.
3. Principles of watershed management.
4. Types and properties of watershed
5. Factors affecting on watershed management
6. Integrated and multidisciplinary approach for watershed management.

Unit II Soil Erosion and Control Measures 10 Periods

1. Definition and types of Soil erosion
2. Factors affecting on soil erosion
3. Measures to control erosion
   a) Agronomical control erosion
   b) Engineering control erosion
Unit III Techniques in Watershed Management 10 Periods

1. Grassland development
2. Gully plugs
3. Tree plantation
4. Contour bunding
5. Land leveling
6. Water conservation structures
7. Jalyukt shivar

Unit IV Water Harvesting, Water budgeting, Model Village and Schemes 15 Periods

1. Importance, significance and methods of Rainwater Harvesting
2. Importance, significance and methods of Ground water harvesting
3. Model Village
4. Water budgeting and funding
5. Schemes of central and state Government for watershed management
6. Visit- To watershed projects Rain water harvesting projects, Jalyukta shivars

Suggested Reading:

9. महाराष्ट्रातील जलसंपादन- प्रा. डॉ. एस.की. डमबरे-डायर्स प्रकाशक,पूणे.
10. पाणलेल विकास विस्तार प्रकार -टी. एस. खुरपे/ शिवाजी ठोळवे, कॉन्टिनेंटल प्रकाशन, विजयनगर, पूणे.
11. पत्यांवरणशास्त्र – (दूसरी आवृत्ति) ए.वी. सनबे, पी.एस. कोठेकर, निराली प्रकाशन,पूणे.
Salient Features
1. The aim of this course is to introduce the students with concepts like region and spatial organization, and various approaches in the study of geography and need for models in geography.

Utility
1. To enable students to study, understand and examine the existing concepts, approaches and models in geography and evolve with new concepts and approaches.

Learning Objectives
1. To develop the skills among the students to apply approaches and models of geography to the real world problems.
2. To know the contribution of geographers across the globe to the development of geographical concepts, theories and models.

Pre-requisites
1. Books, Maps, Globe,
2. ICT

Unit I  Concepts in geography  15 Periods
1. Concept of region
2. Concept of Spatial organization

Unit II  Approaches in Geography  25 Periods
1. Systematic Approach
2. Regional Approach
3. System Approach
4. Quantitative Approach
5. Behavioral Approach
6. Radical Approach

Unit III  Models in Geography  20 Periods
1. Models in Geography: Significance, need, features and general classification of models.
Suggested Reading:

6) डॉ.मामोरिया एवं जैन : भौगोलिक चितन एवं तीन दक्षिणी महादिप
7) डॉ.बी.जो.वेंगापुरकर : भौगोलिक विचारशाराचा विकास
   डॉ.के.बी.कनकरे संघ ग्रामोश, उरगीर ज.ला०
   डॉ.एच.बी.राठोड प्रा.दर्द उगळे
8) डॉ.के.बी.कनकरे : भौगोलिक संकल्पना, अरुणा प्रकाशन, लातूर
   डॉ.मानकरी संतोष मंगनावळे
9) सु.द.शिवेद : आधुनिक भौगोलिक विकास
10) मोहन गुळवे : राजको कैलास पवित्रकेशन औंगावाद
Salient Features
1. The aim of this course is to introduce the students with knowledge of political geography, recent development and its significance in present scenario

Utility
1. To enable students to study, understand the themes like nation-state, state and nation building and their significance in current times

Learning Objectives
1. To make students acquaint with the concepts like frontier, boundaries and core areas and their importance in international relations
2. To know the strategic views and importance of political geographers in terms of global security, hegemony and power balance

Pre-requisites
1. Books, Maps, Globe,
2. ICT

----------------------------------------------------------------------------------------------------------------

Unit I Introduction 15 Periods
1. Definition, nature and scope of political geography.
2. Recent development of political geography.
3. Significance of Study of political geography.

Unit II Geographic elements of the state 15 Periods
1. Physical elements
2. Cultural elements
3. Economic elements

Unit III Themes in political Geography 15 Periods
1. State, nation, nation-state and nation building
2. Frontier, boundaries and core areas.

Unit IV Global strategic views 15 Periods
1. A.T. Mahan’s Sea Base Power
2. Halford Mackinder’s Heartland Theory
3. Spykman’s Theory of Rimland

---
Suggested Readings:

2) Prescott, J.R.V. : Political Geography, Methuen, London
4) भट्टाचार्य-आच्छा : राजनीतिक भूगोल, राजस्थान हिंदी ग्रंथ अंकादमी, जयपुर
5) सक्सेना : राजनीतिक भूगोल - रस्तोंग पब्लिकेशन, मेरठ
6) मगर जयकुमार : राजकीय भूगोल, विद्या प्रकाशन, नागपुर
7) मोहन गुल्लवे : राजकीय भूविज्ञान, केलास पब्लिकेशन ओरंगाबाद
8) भागवत अ.वि. : राजकीय भूगोल
9) वेंकापूरकर, कणकुरे, राठोड, उगाडे : भौगोलिक विचारधारा, अभिभूति पवित्रकेशन, नालूर
Salient Features
1. The aim of this course is to introduce the students with different socio-economic aspects of India
2. To make brief up the students with regional knowledge of India

Utility
1. To enable students to know the socio economic aspects and their regional variations in planning and development

Learning Objectives
1. To develop a sense of regional understanding and cooperation
2. To channelize the thought process of the students for planning and balanced regional development for harmonious coexistence

Prerequisites
1. Books, Maps and Charts
2. ICT

Unit-I Population 10 Periods
1. Spatial distribution of population and density. Factors affecting on distribution and density of population
2. Socio-economic implications of population explosion

Unit-II Agriculture 15 Periods
1. Agricultural regions of India and important crops of the region
2. Green revolution and regional disparity in agricultural growth
3. Impact of globalization on Indian agriculture

Unit-III Industries and Trade 10 Periods
1. Industrial regions of India
2. Industrial development and Indian economy
3. Composition of domestic and international trade

Unit-IV Settlement 10 Periods
1. Growth of urbanization in India, problems and planning
2. Rural settlement pattern and morphology in India

Unit-V Contemporary Issues 15 Periods
1. Indicators of regional disparity in socio economic development
2. Poverty and food security
3. Gender discrimination and women empowerment
4. Globalization
Suggested Reading:

2. Deshpande, C.D.: India: A Regional Interpretation, Northern Book Centre, New Delhi 1992
5. Govt. of India: National Atlas of India, NATMO Publications, Kolkata
6. Hussain, Majid,: Geography of India, McGraw Hill Education (India) Chennai Pvt. Ltd. 2018
7. Learmonth, A. T. A. Man and Land of South Asia, Concept, New Delhi
8. Mitra, Ashok: Levels of Regional Disparity in India- Census of India- Vol-2 (A) (1) & (2) New Delhi, 1987
9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok, 1993
10. Sharma, T.C. & Coutino: Economic and Commercial Geography of India, Vikas Publication House, New Delhi,
13. Wadia, D. N.: Geography of India- McMillan 7 Co. London
14. डॉ एस टी शेते, डॉ. के. बी. कनकुरे, आणि इतर, भरत च भूगोल, अभिजित प्रक शन, ल तूर
15. केचे पंढरंग : भरत च भूगोल , कैल स प्रक शन ,औरंग ब द
Salient Features
1. To acquaint students with different methods of surveying and their use in measurement and planning of land use.
2. To promote the use of computer and GIS skills in the study of geography among the students for surveying and planning.

Utility
1. The course will help the students to develop surveying skills, and their application in land measurement and planning.

Learning Objectives
1. To make students acquaint with the basic concepts of different survey methods and their use in the field.
2. To develop the skills of village survey and report writing.

Pre-requisites
1. Books, Maps, Globe,
2. ICT
3. Field visit and survey

---

**Paper XV - Statistical Methods**

**Unit I**  
**Measurement of central tendencies**  
Mean, Median and Mode in Simple, Discrete and Continuous series.  

**Unit II**  
**Measurement of Deviations**  
Measurement of Deviations - Quartile, Mean and Standard deviation and their co-efficient, in Simple, Discrete and Continuous series.

**Paper XVIII - Application of computer and GIS in Geography**

**Unit I**  
Application of Computer in geography  
05 Periods

**Unit II**  
Concept of GIS and its application in geography  
05 Periods

**Unit III**  
Excursion or village survey report or part of city or Town survey report  
05 Periods
Suggested Reading:
1) Sing and Singh : Mapwork and Practical Geography
2) Singh L. & Dutta P.K. : Elements of Practical Geography-
3) Hammod & Mc Gullah : Quantitative Techniques in Geography
4) Croxton & Cowden : Applied General Statistics
5) Sarkar, A. : Practical Geography – A Systematic
6) Khan Z.A. : Text Book of Practical Geography
7) डॉ.नागलोंड / डॉ.लांजेवार : नकाशाशास्त्र व प्रात्यक्षिक भूगोलशास्त्र, पिप्पलपूरे, अंड रंग.
   प्रकाशन, नागपूर.
8) महाजन वाष्प.आर. : सांख्यिकी, पिप्पलपूरे प्रकाशन,नागपूर.
9) डॉ.कनकर, डॉ.मानकरर/रमेश मुम्बई : प्रात्यक्षिक भूगोल, अरुणा प्रकाशन, लातूर.
10) जे.पी. शर्मा : प्रात्यक्षिक भूगोल,
    रसलोगी प्रकाशन, मेरठ.
11) हिरालाल यादव : प्रात्यक्षिक भूगोल
B. A. Third Year  
Semester-VI  
SEC-IV  
Disaster Management  
Marks: 50  
Credits: 02  
Periods: 45

Salient Features
1. The aim of this course is to introduce the students with few basics of Aerial Photography and Remote Sensing  
2. To develop skills of interpretation of aerial photographs and satellite imageries

Utility
1. To make use of interpretation skills of aerial photographs and satellite imageries in understanding and analyzing the physical and human world

Learning Objectives
1. To keep students abreast with recent developments in geoinformatics  
2. To help students to make use of interpretation skills in decision making and planning for the benefit of society

Pre-requisites
1. Aerial Photographs and Satellite Imageries  
2. Pocket and /or Prism stereoscope  
4. Field visit and ICT

Unit I Introduction  
10 Periods  
1. Meaning, nature, scope and types of disaster  
3. Yokohama strategy -1994  
4. Functionings of centre, state and District disaster management departments

Unit II Disaster Management  
08 Periods  
1. Disaster management plan  
a. Pre-Disaster management  
b. During disaster management  
c. Post disaster management  
2. Application of Remote sensing and GIS for disaster management

Unit III Role of Agencies in Disaster Management  
10 Periods  
Unit IV Training Centers for Disaster Management
09 Periods

Unit V Role of Media in Disaster Management
08 Periods
The role of Media in disaster management: Social Media, Print Media, Electronic Media, All India Radio, Common people and Government GR

Suggested Reading:
1. P. P. Marathe: Practical Disaster Management, Diamond Publication, Pune
4. R. B. Singh: Natural Hazards and Disaster Management (Vulnerability and Mitigation), Rawat Publication, Jaipur.
   (Marathi references 10th)

Websites
https://www.ndma.gov.in
https://www.nidm.gov.in
http://www.en.m.wikipedia.org
http://www.ndmindia.nic.in
http://www.aidmi.org
http://www.nhp.gov.in
https://www.maharashtra.gov.in
Silent Features
1. The aim of this course is to introduce the students with few basics of Aerial Photography and Remote Sensing
2. To develop skills of interpretation of aerial photographs and satellite imageries

Utility
1. To make use of interpretation skills of aerial photographs and satellite imageries in understanding and analyzing the physical and human world

Learning Objectives
1. To keep students abreast with recent developments in geoinformatics
2. To help students to make use of interpretation skills in decision making and planning for the benefit of society

Pre-requisites
1. Aerial Photographs and Satellite Imageries
2. Pocket and/or Prism stereoscope
3. Geometry box

Unit-I Introduction 15 Periods
1. Definition and Development of Remote Sensing
2. Meaning of Platform and Their Types
3. Electromagnetic Spectrum
4. Sensors

Unit-II Aerial Photographs and Satellite Imageries 15 Periods
1. Concept of Aerial Photographs and Satellite Imageries
2. Scale of Aerial Photograph and Satellite Imagery
3. Types of Aerial Photographs
4. Types of Satellite Imageries

Unit- III Interpretation of Aerial Photographs and Satellite Imageries 15 Periods
1. Basic Principles of Interpretation
2. Elements of Interpretation
Suggested Reading:


4. पेशव वि. वि. (१९९०) : दूरसंवेदन, मर ठी विज न परिषद प्रक शन, पुणे

5. डॉ. श्रीकंत क लंकर (२००६): दूरसंवेदन, ड यमंड पुंकिशन, पुणे

* * * * *