

SOLAPUR UNIVERSITY, SOLAPUR



NAAC Accredited-2015
'B' Grade (CGPA 2.62)

Name of the Faculty – Science & Technology

Syllabus-CBCS Pattern

Name of the Course- B.A.III Geography

(Sem-V&VI)

With effect from June- 2018

SOLAPUR UNIVERSITY, SOLAPUR
CHOICE BASED CREDIT SYSTEM SYLLABUS
B. A. Part III GEOGRAPHY
Semester V & VI (w. e. f. June 2018)

Semester V

Sr. No.	Course No.	Paper No.	Name of the Paper	Internal Marks	External Exam Marks	Total Marks	Credit
1.		VII	Resource Geography	30	70	100	4
2.		VIII	Urban Geography	30	70	100	4
3.		IX	Development of Geography	30	70	100	4

Semester VI

Sr. No.	Course No.	Paper No.	Name of the Paper	Internal Marks	External Exam Marks	Total Marks	Credit
1.		X	Geography of Economic Activities	30	70	100	4
2.		XI	Political Geography	30	70	100	4
3.		XII	Applied Geography	30	70	100	4

Practical Examination: (CBCS)

Annual Practical Examination will be of 400 marks. The Distribution of marks will be as follows

Sr. No.	Course No.	Paper No.	Name of the Paper	Internal Marks	External Exam Marks	Total Marks	Credit
1.		I	Elements of Map Work and Weather Reports	30	70	100	4
2.		II	Cartographic and Advanced Techniques in Geography	30	70	100	4
3.		III	Topographical Maps and Statistical Methods	30	70	100	4
4.		IV	Surveying and Field work	30	70	100	4

B.A. Part- III GEOGRAPHY

Semester-V

(w. e. f. June 2018)

Paper Title: -Resource Geography (Paper- VII)

Course No:

Total Marks: - 70+30 =100

Total Lectures: 60

No. of Credit: 04

Objectives:-

Development in science and technology has changed the pattern of economic activities throughout the world. The major objectives of Economic Geography are as follows.

1. To acquaint the student with basic concepts of Economic Geography.
2. To Study the various types of Resources the basis for various economic activities.

Course Contents

Unit No.	Name of the Topic	Sub topic	No. of Lectures
1	Economic Geography	1.1 Meaning of Economic Geography 1.2 Nature and Scope of Economic Geography 1.3 Branches of Economic Geography 1.4 Approaches to the study of Economic Geography 1.5 Significance of Economic Geography	15
2	Resources	2.1 Meaning and Concept of Resources 2.2 Classification of Resources 2.3 Utilization of Resources for the sustainable Economic growth 2.4 Need and nature of conservation of Resources	15
3	Mineral and Power Resources	Distribution, Production and Trade of following Minerals and Power Resources A) Mineral Resources- 3.1 Iron-Ore: China., India 3.2 Manganese- India, South Africa 3.3 Bauxite- India, Australia B) Power Resources: 3.4 Coal-China, India 3.5 Petroleum- India, Middle East Countries 3.6 Hydel Power- India, Japan	15
4	Non Conventional Energy and Bio-Resources	4.1 Non conventional energy resources- Solar and Wind energy Distribution, Production and Trade of following Bio-Resources. 4.2 Forests 4.3 Live stocks-(Cattle, Sheep and Goat)	15

References:

1. Alexandar J.W. (1976): Economic Geography Printace Hall of India New Delhi.
2. Berry conkling and Ray (1988): Economic Geography Printace Hall of India New Delhi.
3. Hamilton I (Ed) (1992): Resource and Industry Oxford University Press New York.
4. Janaki V.A. (1985): Economic Geography, Concept Publication Co, New Delhi. 5. Robinson H. (1978): Economic Geography Madanlal and Evans.
५. प्रकाश सावंत-आर्थिक भूगोल
६. खतीब के. ए. व भांजे बी.एम.-साधन संपत्ती भूगोल

B.A. Part- III GEOGRAPHY
Semester-V
(w. e. f. June 2018)
Paper Title: -Urban Geography (Paper- VIII)

Course No: -

Total Marks: - 70+30 =100

Total Lectures: 60

No. of Credit: - 04

Objectives:-

1. To familiarize the students with the conceptual theoretical & empirical development in settlement studies in geography and current settlement scenario in the world & India.
2. To provide the students in idea about international & national concerns on settlement issues.

Course Contents

Unit No.	Name of the Topic	Sub topic	No. of Lectures
1	Urban Geography	1.1 Definition of Urban Geography 1.2 Nature of Urban Geography 1.3 Scope of Urban Geography 1.4 Approaches to the study of Urban Geography 1.5 Significance of Urban Geography	15
2	Urbanization & Urban Function	2.1 Concept of Urbanization 2.2 Factors of Urbanization 2.3 Trends of Urbanization in World 2.4 Functional Classification of Towns & Cities	15
3	Site and Situation	3.1 Site -Significance & Classification 3.2 Situation -Significance & Classification	15
4	Urban Morphology, Urban Problem & Urban Planning	4.1 Development of Town structure: Theories-Concentric Zone theory, The sector theory, The Multi-Nuclei theory. 4.2 Central Business District 4.3 Residential & Manufacturing areas in the city 4.4 Rural-Urban fringe 4.5 Urban Problems 4.6 Solution of Urban Problems 4.7 Urban Planning: Importance of planning	15

References:

1. Carter H. (1972): The Study of Urban Geography, Edward Arnold. London.
2. Singh R.Y. (1994): Geography of Settlement, Rawat Publication, Jaipur.
3. Bose A.: India Urbanization 1974-2000, Tata McGraw Hill, New Delhi.
4. Mayer H.M. & Kohn C.F. (1967): Readings in Urban Geography, Chicago printing press.
5. Rao V.L.S.P.: Urbanization in India: Spacial Dimensions, Concept Publication Co. New Delhi.
6. Deckinson R.E. (1964): City and Region Rouledge, London.
७. खतीब के. ए. व भांजे बी. एम- नागरी भूगोल, संजोग प्रकाशन, कोल्हापूर.
८. प्रकाश सावंत - नागरी भूगोल, फडके प्रकाशन, कोल्हापूर.
९. ए. बी. सवदी- नागरी भूगोल, निराली प्रकाशन, पुणे.
१०. विठ्ठल धारपुरे - नागरी भूगोल, पिंपळापूर प्रकाशन, नागपूर
११. एन. जी. शिंदे-नागरी भूगोल, चिन्मय प्रकाशन, औरंगाबाद

B.A. Part- III GEOGRAPHY
Semester-V
(w. e. f. June 2018)
Paper Title: Development of Geography (Paper- IX)

Course No: -

Total Marks: - 70+30 =100

Total Lectures: 60

No. of Credit: - 04

Objectives:-

1. To introduce the students to the Philosophical and Methodological foundation of the geography.
2. To provide information related to the major landmarks in development of geographical thought.

Course Contents

Unit No.	Name of the Topic	Sub topic	No. of Lectures
1	History of Geographical idea: brief review &	1.1 Contribution of Greek & Roman 1.2 Ancient Indian geographical concepts 1.3 Alexandar Von Humboldt 1.4 Carl Ritter	15
2	Dichotomy in Geography	2.1 Physical Vs Human 2.2 General Geography Vs. Regional Geography	15
3	School of Geographical Thoughts	3.1 The German School of Geography : Contribution of Friedrich Ratzel 3.2 The French School of Geography : Contribution of Vidal – de-la-Blache 3.3 The American School of Geography : Contribution of Ellen Semple	15
4	Development of Geography after World War II	4.1 The Quantitative revolution in Geography: Concept, Objectives, merits and demerits. 4.2 Behavioural Geography 4.3 Humanistic Geography	15

References:

1. HarsorneRechard (1959) - Perspective on the nature of Geography Rand McNally& Co., New York
2. Dixit R.D. - Geography Thought
3. Dickinson R.E. - Makers of Modern Geography
4. Taylor Griffith - Geography of 20th Century
5. Harvey David (1980) - Explanation in Geography Edward - Arnold Landon
6. Husain Majid (1984) - Evolution of Geographical Thought Rawat Publication, Jaipur
७. खतीब के. ए. व भांजे बी. एम- भूविज्ञान विकास, संजोग प्रकाशन, कोल्हापूर.

GEOGRAPHY (Special)

Practical Paper I

ELEMENTS OF MAP WORK AND WEATHER REPORTS

(W.E.F. June 2018)

Course No:

Marks: 70+30=100

Objectives:

1. To enable the students to use elements of map work.
 2. To introduce students to Weather instruments and weather charts.
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UNIT 1. CARTOGRAPHY

30

- Map definition, Basic components of Map
 - Map Scale- Definition, Methods of expression of Scales: Statement Scale (Verbal Scale), Numerical Scale/Representative Fraction, Graphical Scale.
 - Conversion of Scale
 - Construction of Scale: (Metric System Only)
- i) Simple Graphical scale ii) Time and Distance Scale iii) Diagonal Scale.

UNIT 2. MAP PROJECTION

30

- Definition and Classification of Projection.
 - a) Based on method of construction
 - b) Based on the developed surface used
 - c) Based on the position of view point
 - d) Based on preserved quantities
 - e) Based on the position of tangent surface
- Construction, Properties and Uses of the following Projection
 1. Zenithal Polar Gnomonic Projection
 2. Zenithal Polar Equal Area Projection
 3. Simple Conical Projection with One Standard Parallel
 4. Simple Conical Projection with Two Standard Parallel
 5. Cylindrical Equal Areal Projection
 6. Mercator's Projection

UNIT 3. STUDY OF WEATHER INSTRUMENTS AND WEATHER REPORTS 30

- Weather Instruments
 - i) Thermograph ii) Barograph iii) Wet and Dry bulb Thermometer
 - iv) Cup Anemometer v) Rain gauge vi) Hair hygrometer
- Isobaric pattern and weather associated with them:
 - Cyclone, Anticyclone, Secondary Cyclone, Wedge, Ridge, Col.
- The Study of Indian Daily Weather Reports
 - A) Signs and Symbols used in IMD Chart
 - B) Interpretation of Weather Reports: Summer, Rainy and Winter seasons.
- i) Day, Date, Time and Season ii) Air pressure iii) Wind
- iv) Rainfall v) Cloud condition vi) Other phenomena
- vii) Sea condition viii) Temperature departure from normal

UNIT 4. Journal & Viva

10

References: (For Practical Paper I,II,III& IV)

1. Singh R. L. & Dutt P. K. (1979): Element of Practical Geography, Kalyani Publishers, New Delhi.
2. Singh R. & Kanaujia L.R.S. (1970): Map Work & Practical Geography, Central Book Depot, Allahabad.
3. John Bygott: An Introduction to Map Work & Practical Geography
4. Mishra R. P. & Ramesh (1986): A Fundamentals of Cartography, McMillan Co., New Delhi.
5. Robinson A. H. (1995): Elements of Cartography, John Wiley & Sons, U. S. A
6. Ludar D. (1959): Aerial Photography Interpretation: Principles & Application, McGraw Hill, New York.
7. Curran Paul J. (1985): Principles of Remote Sensing, Longman, London.
8. Lillesand T. M. & Kefer R. W. (1994): Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
९. डॉ. कुभार अर्जुन, प्रात्यक्षिक भूगोल
१०. डॉ. डी. जी. गाताडे व डॉ. एस. सी. आडवीतोट-प्रात्यक्षिक भूगोल
११. खतीब के. ए. व भांजे बी. एम- प्रात्यक्षिक भूगोल, संजोग प्रकाशन, कोल्हापूर.

GEOGRAPHY (Special)
Practical Paper IICARTOGRAPHIC AND ADVANCED
TECHNIQUES IN GEOGRAPHY
(W.E.F. June 2018)

Course No:

Marks: 70+30=100

Objectives:

1. To enable the students to use various cartographic Technique.
2. To introduce the importance & basic principles of Remote Sensing, G.I.S. & G.P.S.

UNIT 1. Representation of Statistical Data by following Cartographic Techniques 30

- i) Climograph ii) Hythergraph iii) Ergograph (Crop Calendar & Circular)
- iv) Wind Roses and Star Digram v. Traffic Flow cartogram

UNIT 2. INTRODUCTION TO REMOTE SENSING 30

- Definition & Concept of Remote Sensing
- Types of Sensor and Platform
- Types of Aerial Photograph
- General Equipments used in Aerial Photo interpretation
 - i) Pocket Stereoscope ii) Mirror Stereoscope
- Aerial Photo interpretation elements: Size, Shape Shadow, Tone, Texture, Colour, Associated features.
- Visual interpretation of Aerial Photographs.

UNIT 3. INTRODUCTION TO COMPUTER, G.I.S., G. P.S. 30

A) Computer: Evolution of computer, Components: Input & Output device, application in Geography Construction of Line Graph, Bar Graph and Pie diagram with the help of computer.

B) Geographical Information System (G.I.S.)

- i) Definition, component and technical element of G.I.S.
 - ii) Basic functions of G.I.S.
 - iii) Application of G.I.S. in Geography.

Introduction to GIS Software: Hands on /practical using open source software QGIS: Geo-referencing, Digitization, Point, Line and Polygon, Final Map Layout and Design.

C) Global Positioning System (G.P.S)

- i) Introduction, Determinants and Components of G.P.S
- ii) Application of G.P.S. in Geography

UNIT 4. Journal & Viva

10

References: (For Practical Paper I,II,III& IV)

1. Singh R. L. & dutt P. K. (1979): Element of Practical Geography, Kalyani Publishers, New Delhi.
2. Singh R. & Kanaujia L.R.S. (1970): Map Work & Practical Geography, Central Book Depot, Allahabad.
3. John Bygott: An Introduction to Map Work & Practical Geography
4. Mishra R. P. & Ramesh (1986): A Fundamentals of Cartography, McMillan Co., New Delhi.
5. Robinson A. H. (1995): Elements of Cartography, John wiley& Sons, U. S. A.
6. Ludar D. (1959): Aerial Photography Interpretation: Principles & Application, McGraw Hill, New York.
7. Curran Paul J. (1985): Principles of Remote Sensing, Longman, London.
8. Lillesand T. M. & Kefer R. W. (1994): Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
9. Dr. Kumbhar Arjun: Practical Geography, SumeruPrakashan, Mumbai.
10. Dr. Gatade D.G. & Dr. Adavitot S.C. (2007) - Practical Geography, AksharlanePrakashan, Solapur.
11. Khatib K.A.: Practical Geography, SanjogPrakashan, Kolhapur.

B.A. Part- III GEOGRAPHY
Semester-VI
(w. e. f. June 2018)

Paper Title: Geography of Economic Activities (Paper- X)

Course No: -

Total Marks: - 70+30 =100

Total Lectures: 60

No. of Credit: - 04

Objectives:-

Development in science and technology has changed the pattern of economic activities throughout the world. The major objectives of Economic Geography are as follows.

1. To acquaint the students with economic activities i.e. Agriculture, Manufacturing, Transportation economic & Trade and Tourism.
2. To acquaint the students with basic concepts of Regional Planning.

Course Contents

Unit No.	Name of the Topic	Sub topic	No. of Lectures
1	Agriculture	1.1 Factors Affecting on Agriculture 1.2 Role of Agriculture in Economic development. 1.3 Types, Characteristics and Pattern of the following agricultural practices. Subsistence Agriculture: Shifting cultivation, Intensive farming. Commercial Agriculture: Plantation, Commercial grain farming, Mixed farming & Fruit farming.	15
2	Manufacturing Industries	2.1 Factors of Industrial localization. 2.2 Concept of localization, centralization & decentralization, Weber's Theory of Industrial location 2.3 Brief study of following industries in Japan & U. S. A. i. Iron & Steel Industries ii. Cotton Textile Industries	15
3	Transportation, Communication & Trade	3.1 Significance of Transportation, Communication & Trade. 3.2 Modes of Transport :i) Transcontinental Rail Routes. ii) Major Ocean Routes. 3.3 Modes of Communication 3.4 Trade organizations – OPEC, WTO, EEC	15
4	Tourism, Regional Planning	A) Tourism: 4.1 Meaning Significance & impacts of Tourism. 4.2 Factors influencing on Tourism. 4.3 Tourism management & Planning. 4.4 Major Tourism areas in Asia B) Regional Planning: 4.5 Concept and Types of Region 4.7 Concept of Regional Planning 4.8 Application of Regional Planning for Maharashtra.	15

References:

1. Alexanderson C. (1967): Geography of Manufacturing, Prentice Hall, Bombay.
2. Boesch H (1964): A Geography of World Economy, S. Van Nostrand Co., New York
3. Goh Chang Leong and Morgan (1977): Human and Economic Geography, Oxford University Press.
4. H. Robinson (1978): Economic Geography, Macdonald and Evans.
5. Hamilton I. (Ed) (1992): Resources and Industry, Oxford University Press, New York.
6. Hartshorn T. N. and Alexandar J. W. (1994): Economic Geography, Prentice Hall, New Delhi.
7. Janaki V. A. (1985): Economic Geography, Concept publication Co. New Delhi.
8. Miller E. (1962): Geography of Manufacturing, Prentice Hall, New York.
9. Milton D. (1993) :Gography of World Tourism, Longman, London.
10. Mishra R. P. (1969): Regional Planning: Concepts, Techniques & Policies, University of Mysore.
11. Raza M. and Agrawal Y. P. (1985): Transport Geography of India, Concept publication, New Delhi.
12. Thoms R. S. (1962): The Geography of Economic Activities, McGraw Hill, New York.
13. White H. P. And Senior M. L. (1983): Transport Geography, Longman, London.
१४. खतीब के. ए. व भांजे बी. एम- आर्थिक भूगोल, संजोग प्रकाशन, कोल्हापूर.

B.A. Part- III GEOGRAPHY
Semester-VI
(w. e. f. June 2018)
Paper Title: -Political Geography (Paper- XI)

Course No: -

Total Marks: - 70+30 =100

Total Lectures: 60

No. of Credit: - 04

Objectives:-

1. To understand the basic concepts of political geography.
2. To familiarize the students with the geographical factors which have a bearing on the geopolitical/ administrative organization of space.
3. To enhance awareness of multidimensional nature of geo-political space.

Course Contents

Unit No.	Name of the Topic	Sub topic	No. of Lectures
1	Political Geography	1.1 Definition 1.2 Nature 1.3 Scope 1.4 Relation with allied branches 1.5 Approaches to the study of Political Geography	15
2	Global Strategic views and their Relevance to contemporary world situation	2.1 Sea Power Concept of A.T.Mahan 2.2 The Heartland Theory of H.J. Mackinder 2.3 Rim Land Theory of Spykman	15
3	Major Concepts of State, Nation, Boundaries, Frontiers, Capitals and Core Areas	3.1 Concept of State and Nation 3.2 Elements of State-Location, Shape, Size, Topography, Climate, Vegetation, Resources, Population and Communication. 3.3 Concept of Boundaries and Frontiers. 3.4 Meaning, Classification and Functions of Boundaries, Capital and Core areas. 3.5 Buffer State: Meaning and Examples.	15
4	Geo-Political Issues of India	4.1 Changing Political Map of India 4.2 Inter-State issue of Water disputes 4.3 Conflict resolutions insurgency in Border States. 4.4 Boundary disputes: i) India and Pakistan ii) India and China	15

References:

1. Alexandar L.M. (1963): World Political Patterns, Ran McNally, Chicago.
2. Bhagwati, J. N. (Ed) (1976): New International Economic Order – The North – South Debate. M.I.T Press, London
3. Deckinson R.E. (1964): City and Region Roulledge, London.
4. Deshpande C.D. (1992): India- A Regional Interpretation, Northern Book Center, New Delhi.
5. Dikshit, R.D. (1982): Political Geography: A Contemporary Perspective, Tata McGraw-Hill Publishing Company. New Delhi
6. Glassner M.I. (1993): Political Geography, John Wiley, New York.
7. John R. Short (1982): An Introduction to Political Geography, Methuen, London.
8. Panikkar, K.M. (1956): Geographical factors in Indian History. BharatiyaVidyaBhavan, Bombay.
9. Pounds N.T. (1972): Political Geography McGraw Hill, New York.
10. Short J. R. (1982): An Introduction to Political Geography, Routledge and Kegan Paul, London.
11. Sharma T.C. - Political Geography.
12. Singh R.Y. (1994): Geography of Settlement, Rawat Publication, Jaipur.
13. Tylor Peter (1985): Political Geography, Longman, London.
१४. खतीब के. ए. व भांजे बी. एम- राजकीय भूगोल, संजोग प्रकाशन, कोल्हापूर.

B.A. Part- III GEOGRAPHY
Semester-VI
(w. e. f. June 2018)
Paper Title: -Applied Geography (Paper- XII)

Course No:

Total Marks: 70+30 =100

Total Lectures: 60

No. of Credit: - 04

Objectives:-

1. To familiarize the students Nature & Scope of Applied Geography.
2. To understand the various issues related to physical environment, human resources and economy etc.

Course Contents

Unit No.	Name of the Topic	Sub topic	No. of Lectures
1	Applied Geography	1.1 Definition of Applied Geography 1.2 Nature of Applied Geography 1.3 Scope & Content of Applied Geog.	15
2	Issues related to physical environment : Environmental degradation	2.1 Environmental degradation: i) soil erosion ii) Deforestation iii) Pollution : Air, Water & Noise its causes, effects 2.2 Global environmental issues – Global warming, ozone layers depletion & Acid rain	15
3	Issues related to physical environment : Environmental disaster	3.1 Natural disaster- Floods, Droughts, Earth quakes & Land Slides with special reference to India. 3.2 Environmental management	15
4	Issues related to Human resources and Economy	4.1 Quality Vs. Number 4.2 Social and Demographic issues 4.3 Modern Agriculture & Associated Problem 4.4 Industrialization & Associated problem.	15

References:

1. Hartshorne, Richard (1959): Perspective on the Nature of Geography, Rand McNally & Co. New York.
2. Minshull, R. (1970): The Changing Nature of Geography, London.
3. Dickinson, R. E.: Makers of Modern Geography.
4. Taylor Griffith: Geography of 20th Century
5. Harvey, David (1980): Explanation in Geography, Edward — Arnold, London.
6. Johnston, R. J. & Claval, P. (Ed.) (1984): Geography Since the Second World War, Croom Helm, London.
7. Holt — Jensen, A. (1980): Geography: Its History and Concept, Longman London.
8. Singh Savindar : Environmental Geography
9. Chand & Puri : Regional Geography
10. Dhameja S. K.: Environmental Studies, New Delhi.
11. Lownsburg, R. J. & Aldrich, F. T. (1979): Introduction of Geographical Methods and Techniques, Charles Merrill, Columbus.
12. खतीब के. ए. व भांजे बी. एम- उपयोजित भूगोल, संजोग प्रकाशन, कोल्हापूर.

GEOGRAPHY (Special)

Practical Paper III: Topographical Maps and Statistical Methods(W.E.F. June 2018)

Course No:

Marks: - 70+30=100

Objectives:

1. To acquaint the students with the Topographical Maps
 2. To introduce the students about Statistical Methods in Geography.
-

UNIT 1. METHODS OF REPRESENTATION OF RELIEF

30

- **Methods Representation of Relief by** – Spot height, layer tint, Hatures, Form lines, Contours.
- **Representation of Relief features by Contours** – i) Conical Hill i) Plateau iii) Mountain Cliff iv) Sea Cliff v) Waterfall vi) Valley vii) Gorge viii) Ridge ix) Saddle
- **Representation of Slope by Contours** – i) Gentle ii) Steep iii) Even iv) Uneven v) Concave vi) Convex vii) Terraced
- **Methods of expression of Slope** – Gradient, Degree, Percentage

UNIT 2. STUDY OF S.O.I. TOPOSHEET

30

- Indexing of Toposheet
- Signs and Symbols used in S.O.I. Toposheets.
- **Interpretation of S. O. I. Toposheets** (Plain, Plateau & Mountain region) with respect to following points – A) Marginal information B) Physiographic information – i) Relief ii) Drainage iii) Vegetation C) Cultural information – i) Land use ii) Transportation & Communication iii) Settlement iv) Irrigation
- **UNIT 3. STATISTICAL METHODS** (Simple, Discrete and Continuous data) 30
- **Need and Importance of Statistical Data**
- **Nature of Statistical data**
- **Measures of Central Tendency:** i) Mean ii) Median iii) Mode
- **Measures of Dispersions:** i) Mean Deviation ii) Quartile Deviation iii) Standard Deviation
- **Coefficient of Correlation** by Carl Pearson's method

Note:

- Each department should have at least 2 computers, 1 printer, 1 scanner, 10 pairs of Aerial Photographs, 10 Pocket Stereoscopes, 2 Mirror Stereoscopes and 10 Remote Sensing Images.

References: (For Practical Paper I,II,III& IV)

1. Singh R. L. & Dutt P. K. (1979): Element of Practical Geography, Kalyani Publishers, New Delhi.
2. Singh R. & Kanaujia L.R.S. (1970): Map Work & Practical Geography, Central Book Depot, Allahabad.
3. John Bygott: An Introduction to Map Work & Practical Geography
4. Mishra R. P. & Ramesh (1986): A Fundamentals of Cartography, McMillan Co., New Delhi.
5. Robinson A. H. (1995): Elements of Cartography, John Wiley & Sons, U. S. A
6. Ludar D. (1959): Aerial Photography Interpretation: Principles & Application, McGraw Hill, New York.
7. Curran Paul J. (1985): Principles of Remote Sensing, Longman, London.
8. Lillesand T. M. & Kefer R. W. (1994): Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
9. Dr. Kumbhar Arjun: Practical Geography, SumeruPrakashan, Mumbai.
10. Dr. Gatade D.G. & Dr. Adavitot S.C. (2007) - Practical Geography, AksharlanePrakashan, Solapur.
11. Khatib K.A.: Practical Geography, SanjogPrakashan, Kolhapur.

GEOGRAPHY (Special)

Practical Paper IV: Surveying and Field Work

(W.E.F. June 2018)

Course No:

Marks: -70+30=100

Objectives:

1. To acquaint the students with the Surveying
 2. To introduce the students about Field Work.
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UNIT 1. SURVEYING

30

• Definition, types of survey according to instruments used-

• Preparation of plans of the given area with the following surveys-

A) Plane Table Survey – Object & procedure of plane table survey i) Radial Method ii) intersection method iii) Open traverse survey (at least three points)

B) Chain and Tape Survey - Object & procedure of Chain & Tape Survey i) Triangulation Method ii) Open traverse survey iii) Computation of area by Cross Staff Survey method.

C) Prismatic Compass Survey - i) Radial Method ii) intersection method iii) Open traverse survey iv) Local attraction & correction of bearings.

UNIT 2. PROJECT REPORT

30

(Report on Any One of the following Topic) i) Flood affected Village ii) Problem of Village or City such as Pollution, water resources, Population, Electricity, Slum, Housing, Road, Industry, Health, Education, City traffic, Land use, Productivity any environmental degradation or Any other problem related to local area. **(Period of filed work maximum one week. Student have submit report at the time of University Examination)**

UNIT 3. STUDY TOUR TO IMPORTANT GEOGRAPHICAL PLACES

30

(Geographical places within India for a period of maximum 15 days) (Student have submit excursion tour report at the time of University Examination)

Note: Project work should be allotted in batches. Each batch should be not more than 12 students.

References: (For Practical Paper I,II,III& IV)

12. Singh R. L. & Dutt P. K. (1979): Element of Practical Geography, Kalyani Publishers, New Delhi.
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Equivalent Subject to Old syllabus

Sr. No.	Name of the Old Paper	Name of the New Paper
1.	Resource Geography	Resource Geography
2.	Urban Geography	Urban Geography
3.	Development of Geography	Development of Geography
4	Geography of Economic Activities	Geography of Economic Activities
5	Political Geography	Political Geography
6	Applied Geography	Applied Geography

Practical

Sr. No.	Name of the Old Paper	Name of the New Paper
1.	Elements of Map Work and Weather Reports	Elements of Map Work and Weather Reports
2	Cartographic and Advanced Techniques in Geography	Cartographic and Advanced Techniques in Geography
3	Topographical Maps and Statistical Methods	Topographical Maps and Statistical Methods
4	Surveying and Field work	Surveying and Field work