SOLAPUR UNIVERSITY, SOLAPUR
CREDIT BASED SEMESTER PATTERN SYLLABUS
New Syllabus For B. A. Part III GEOGRAPHY
Semester V & VI
(w. e. f. June 2016)
Semester V

Sr. No.	Course No.	Paper No.	Name of the Paper	Internal Marks	External Exam Marks	Total Marks	Credit
1	ASG-301	VII	Resource Geography	30	70	100	4
2	ASG-302	VIII	Urban Geography	30	70	100	4
3	ASG-303	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	ASG-304	X	Geography of Economic Activities	30	70	100	4
2	ASG-305	XI	Political Geography	30	70	100	4
3	ASG-306	XII	Applied Geography	30	70	100	4

Practical Examination: (CGPA)

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

Sr. No.	Course No.	Practical Paper No.	Name of the Paper	Internal Marks	University Exam Marks	Total Marks	Credit
1	ASG-307 (A)	I	Elements of Map Work and Weather Reports	30	70	100	4
2	ASG-307 (B)	II	Cartographic and Advanced Techniques in Geography	30	70	100	4
3	ASG-308 (A)	III	Topographical Maps and Statistical Methods	30	70	100	4
4	ASG-308 (B)	IV	Surveying and Field work	30	70	100	4

B.A. Part- III GEOGRAPHY

Semester-V

(w. e. f. June 2016)

Paper Title: -Resource Geography (Paper- VII)

Course No: - ASG 301 **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 fallows.

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	**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: U.S.A., India 3.2 Manganese- India, Russia 3.3 Bauxite- India, West Indies **B) Power Resources-** 3.4 Coal-U.S.A., India 3.5 Petroleum- India, Middle East Countries 3.6 Hydel Power- India, Japan 3.7 Non conventional energy resources- Solar and Wind energy	**15**
4.	**Bio-Resources**	Distribution, Production and Trade of following Bio-Resources. 4.1 Forests 4.2 Live stocks-(Cattle, Sheep)	**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.

Semester V
Paper Title: - Urban Geography (Paper- VIII)

(w. e. f. June 2016)

Code No: - **Course No: - ASG 302**
Total Marks: - 70+30=100No. 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.

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	**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:

6. Carter H. (1972): The Study of Urban Geography, Edward Arnold. London.
7. Singh R.Y. (1994): Geography of Settlement, Rawat Publication, Jaipur.
8. Bose A.: India Urbanization 1974-2000, Tata McGraw Hill, New Delhi.
9. Mayer H.M. & Kohn C.F. (1967): Readings in Urban Geography, Chicago printing press.
10. Rao V.L.S.P.: Urbanization in India: Spacial Dimensions, Concept Publication Co. New Delhi.
11. Deckinson R.E. (1964): City and Region Rouledge, London.

Semester V Paper No IX

Paper Title: - Development of Geography

(w. e. f. June 2016)

Total Lectures:- 60

Course No.: - ASG - 303 Total Marks: - 70+30=100

Total No. of Credit : 04

Course 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.

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. Harsorne Rechard (1959) - Perspective on the nature of Geography Rand Mc Nally & 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. प्रा. खतीब के.ए.-भूविज्ञान विकास मेहता पब्लिकेशन, कोल्हापूर.

GEOGRAPHY (Special) Practical Paper I

ELEMENTS OF MAP WORK AND WEATHER REPORTS

(W.E.F. June 2016)

Course No: ASG-307(A) Marks: - 100

Objectives:

1. To enable the students to use elements of map work.

2. To introduce students to Weather instruments and weather charts.

UNIT 1. MAP SCALE **30**

I) Map Scale- Definition, Methods of expression of Scales: Statement Scale (Verbal Scale), Numerical Scale/Representative Fraction, Graphical Scale.

II) Conversion of Scale

III) Construction of Scale: (Metric System Only)

i) Simple Graphical scale ii) Time and Distance Scale iii) Diagonal Scale.

UNIT 2. MAP PROJECTION **30**

I) 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

II) Construction, Properties and Uses of the following Projection

i) Zenithal Polar Gnomonic Projection

ii) Zenithal Polar Equal Area Projection

iii) Simple Conical Projection with One Standard Parallel

iv) Simple Conical Projection with Two Standard Parallel

v) Cylindrical Equal Areal Projection

vi) Mercator’s Projection

UNIT 3. STUDY OF WEATHER INSTRUMENTS AND WEATHER REPORTS **30**

I) Weather Instruments

i) Thermograph ii) Barograph iii) Wet and Dry bulb Thermometer

iv) Cup Anemometer v) Rain gauge vi) Hair hygrometer

II) Isobaric pattern and weather associated with them:

Cyclone, Anticyclone, Secondary Cyclone, Wedge, Ridge, Col.

III) 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.
9. Dr. Kumbhar Arjun: Practical Geography, Sumeru Prakashan, Mumbai.
10. Dr. Gatade D.G. & Dr. Adavitot S.C. (2007) - Practical Geography, Aksharlane Prakashan, Solapur.
11. Khatib K.A.: Practical Geography, Sanjog Prakashan, Kolhapur.

GEOGRAPHY (Special) Practical Paper II

CARTOGRAPHIC AND ADVANCED TECHNIQUES IN GEOGRAPHY

(W.E.F. June 2016)

Course No: ASG-307(B) Marks: - 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, simple and compound v. Traffic Flow cartogram

UNIT 2. INTRODUCTION TO REMOTE SENSING **20**

.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. **40**

A) Computer: Evolution of computer, Components: Input & Output device

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.

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, Sumeru Prakashan, Mumbai.
10. Dr. Gatade D.G. & Dr. Adavitot S.C. (2007) - Practical Geography, Aksharlane Prakashan, Solapur.
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SOLAPUR UNIVERSITY, SOLAPUR

GEOGRAPHY

Paper Title – Geography of Economic Activities

Semester- VI, Paper – X

(W.E.F. June 2016)

Course No.: ASG – 304 **No. of Credit: 04**

Total Marks: 70+30=100 **Lecture-60**

Course objectives: -

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

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.

Unit No.	Name of the Topic	Sub Topic	No. of Lectures
I	**Agriculture**	Brief review of following aspects. 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.	**12**
II	**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	**12**
III	**Transportation, Communication & Trade**	3.1 Significance of Transportation, Communication & Trade. 3.2 Modes of Transport i) Trance continental Rail Routes. ii) Major Ocean Routes. 3.3 Trade organizations – OPEC, WTO, EEC	**12**
IV	**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	**12**
V	**Regional Planning**	5.1 Concept of Region 5.2 Types of Region 5.3 Concept of Regional Planning 5.4 Application of Regional Planning for Maharashtra.	**12**

References:

1. Alexanderson C. (1967): Geography of Manufacturing, Prentice Hall, Bombay.
2. Boesch H (1964):A Geography of World Economy, S. Van Notrand 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) e: 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, NewYork.
13. White H. P. And Senior M. L. (1983): Transport Geography, Longman, London.
14. प्रा. खातीब के. ए. : आर्थिक भूगोल, मेहता पब्लिकेशन्स, कोल्हापूर.

B.A. Part- III GEOGRAPHY

Semester-VI

(w. e. f. June 2016)

Paper Title: - Political Geography (Paper- XI)

Course No: - ASG 305 **Total Marks: - 70+30 =100**

Total Lectures: 60 **No. of Credit: -04**

Objectives:-

3. To understand the basic concepts of political geography.
4. To familiarize the students with the geographical factors which have a bearing on the geo-political/ administrative organization of space.
5. 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**	1.5 Definition 1.6 Nature 1.7 Scope 1.8 Relation with allied branches 1.9 Approaches to the study of Political Geography	**15**
2.	**Global Strategic views and their Relevance to contemporary world situation**	2.5 Sea Power Concept of A.T.Mahan 2.6 The Heartland Theory of H.J. Mackindar 2.7 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:

12. Alexandar L.M. (1963): World Political Patterns, Ran McNally, Chicago.
13. Bhagwati, J. N. (Ed) (1976): New International Economic Order – The North – South Debate. M.I.T Press, London
14. Deckinson R.E. (1964): City and Region Rouledge, London.
15. Deshpande C.D. (1992): India- A Regional Interpretation, Northern Book Center, New Delhi.
16. Dikshit, R.D. (1982): Political Geography: A Contemporary Perspective, Tata McGraw-Hill Publishing Company. New Delhi
17. Dwiwedi- Political Geography.
18. Glassner M.I. (1993): Political Geography, John Wiley, New York.
19. John R. Short (1982): An Introduction to Political Geography, Methuen, London.
20. Panikkar, K.M. (1956): Geographical factors in Indian History. Bharatiya Vidya Bhavan, Bombay.
21. Pounds N.T. (1972): Political Geography Mc Graw Hill, New York.
22. Prescott, J.R.V. (1972): Political Geography Methouen & Co. London.
23. Schwartzberg, J.E. A (1993): Historical Atlas of South Asia, University of Chicago Press, U.S.A.
24. Short J. R. (1982): An Introduction to Political Geography, Routledge and Kegan Paul, London.
25. Sharma T.C. - Political Geography.
26. Singh R.Y. (1994): Geography of Settlement, Rawat Publication, Jaipur.
27. Tylor Peter (1985): Political Geography, Longman, London.
28. प्रा.खतीब के.ए. - राजकीय भूगोल, मेहता पब्लिकेशन

Semester VI
Paper Title: Applied Geography Paper XII
(w. e. f. June 2016)

Course No.: ASG – 306

No. of Credit: 04 Total Marks: 70+30=100

Course objectives: Total Lectures: 60

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.

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 Marrill, Columbus.
12. खतीब के.ए. उपयोजित भूगोल.

GEOGRAPHY (Special)
Practical Paper III-Topographical Maps and Statistical Methods
(W. E. F. June 2016)

Course No.: ASG – 308(A)
Marks :- 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

1 Methods Representation of Relief by – Spot height, layer tint, Hatures, Form lines, Contours

2 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

3 Representation of Slope by Contours –

i) Gentle ii) Steep iii) Even iv) Uneven v) Concave vi) Convex vii) Terraced

4 Methods of expression of Slope – Gradient, Degree, Percentage & Mills

UNIT 2. STUDY OF S.O.I. TOPOSHEET 30

1. Indexing of Toposheet
2. Signs and Symbols used in S.O.I. Toposheets.
3. 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 30

• 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

UNIT 4. JOURNAL AND VIVA **10**

Note:

1. Project work should be allotted in batches. Each batch should be not more than 12 students.
2. 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.
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10. Dr. Gatade D.G. & Dr. Adavitot S.C. (2007) - Practical Geography, Aksharlane Prakashan, Solapur.
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GEOGRAPHY (Special)
Practical Paper IV- Surveying and Field Work
(W. E. F. June 2016)

Course No.: ASG – 308(B) Marks :- 100

Objectives:

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

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) Open traverse survey by intersection method (at least three points) iii) Closed traverse survey by intersection method.

B) Chain and Tape Survey - Object & procedure of Chain & Tape Survey

i) Triangulation Method ii) Open traverse survey by intersection method

Computation of area by Cross Staff Survey method.

C) Prismatic Compass Survey -

i) Radial Method ii) Open traverse survey by intersection method

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**

(Any where in India for a period of maximum 15 days)

(Student have submit excursion tour report at the time of University Examination)

JOURNAL AND VIVA **10**

Note:

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

2. 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.
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10. Dr. Gatade D.G. & Dr. Adavitot S.C. (2007) - Practical Geography, Aksharlane Prakashan, Solapur.
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