

**Kavayitri Bahinabai Chaudhari  
North Maharashtra University,  
Jalgaon**



**S. Y. B.A  
(Semester III & IV)  
Syllabus of Geography  
(Under the Faculty of Science)**

**Choice Based Credit System (CBCS)**

**With effect from June-2019**

## Structure of S.Y.B.A. under CBCS pattern- Geography w.e.f. June-2019

Semester	Discipline Specific Core Courses DSC	Ability Enhancement Compulsory Course AEC	Skill Enhancement Course SEC	Discipline Specific Elective Courses DSE	Generic Grade GE
<b>III</b> Credits: 18 (07 Papers)	<b>Compulsory English</b> (Credits 03) <b>MIL 1</b> (Credits 03) <b>DSC1 C</b> (Credits 02)** <b>DSC 2 C</b> (Credits 02)**	-----	<b>SEC 1</b> (Credits 02)	<b>DSE 1 A</b> (Credits 03) <b>DSE 2 A</b> (Credits 03)	-----
<b>IV</b> Credits: 20 (08 Papers)	<b>Compulsory English</b> (Credits 03) <b>MIL 2</b> (Credits 03) <b>DSC 1 D</b> (Credits 02)** <b>DSC 2 D</b> (Credits 02)** <b>DSC3 D</b> (Credits 02)*	-----	<b>SEC 2</b> (Credits 02)	<b>DSE 1 B</b> (Credits 03) <b>DSE 2 B</b> (Credits 03)	-----

Gg. 231 **(DSC)** Sem. III General Cartography **(DSC1 C)**

Gg. 241 **(DSC)** Sem. IV Human Geography **(DSC1 D)**

Gg. 232 **(DSE 1 A)** Sem. III Geography of Tourism

Gg. 242 **(DSE 1 B)** Sem. IV Geography of India

Gg. 233 **(DSE 2 A)** Sem. III Practical Geography (Scale and Map Projection)

Gg. 243 **(DSE 2 B)** Sem. IV Practical Geography (Surveying)

Gg. 234 **(SEC 1)** Sem. III Regional Planning and Development

Gg. 244 **(SEC 2)** Sem. IV Remote Sensing and GPS Based Project Report

Gg. 245 **(DSC 3 D)** Sem. IV Minor Study Project

In semester IV, DSC 3 D will be Minor Study Project of DSE 1 B and 2 B (Papers of Special Subject)

\* In Sem. IV, DSC 3D will be Minor Study Project of DSE 1 B & 2 B (Papers of specific subject)

\*\* For all other DSC Papers there will be 01 Credit for Practical. ( 01 Credits of Practical= 02 Hours)

## सूचना

1. MIL हि अनिवार्य अभ्यासपत्रिका आहे. द्वितीय वर्षात प्रवेशित प्रत्येक विद्यार्थ्यांने मराठी, हिंदी, संस्कृत, पाली, अर्धमागधी यापैकी महाविद्यालयात शिकवल्या जाणाऱ्या इंग्रजी व्यतिरिक्त कोणत्याही एका भाषा विषयाच्या MIL मधील अभ्यासपत्रिकेची निवड करणे अनिवार्य आहे.
2. DSE 1, 2 मध्ये भूगोल या विषयाच्या अभ्यासपत्रिकांची निवड करणाऱ्या विद्यार्थ्यांनी DSC मधील भूगोल विषयाच्या उपलब्ध सामान्य नकाशाशास्त्र (General Cartography- Sem: III ) आणि मानवी भूगोल (Human Geography- Sem: IV ) अभ्यासपत्रिकेची निवड करणे अनिवार्य आहे.
3. DSE 1, 2 मध्ये भूगोल या विषयाच्या अभ्यासपत्रिकांची निवड करणाऱ्या विद्यार्थ्यांनी चौथ्या सत्रात DSC 3 मधील लघुअभ्यास प्रकल्प (**Minor Study Project**) या अभ्यासपत्रिकेसाठी भूगोल या विषयाची निवड करणे अनिवार्य आहे. प्रकल्पलेखनाची हि अभ्यासपत्रिका फक्त चौथ्या सत्रासाठी आहे.
4. SEC च्या सत्र तीन व चार यांमधील अभ्यासक्रमांसाठी विद्यार्थी महाविद्यालयात उपलब्ध विषयांपैकी कोणत्याही विषयाची निवड करू शकतात.
5. विद्यापीठ परीक्षा **60 गुणांची** आणि अंतर्गत/प्रात्यक्षिक परीक्षा **40 गुणांची** असेल.

## Equivalence courses for SYBA Geography Students

S.Y.B.A Geography (Old Courses)	New Syllabus of S.Y.B.A Geography W.E.F. June 2019
Gg: 211(A) - Sem. III - G2: Human Geography <b>OR</b> Gg: 211(B) – Sem. III - G2: Geography of Resources	Gg. 231 (DSC) Sem. III General Cartography
Gg: 221(A) - Sem. IV - G2: Economic Geography <b>OR</b> Gg: 221(B) - Sem. IV - G2: Geography of Water Resource	Gg. 241 (DSC) Sem. IV Human Geography
Gg: 212(A) - Sem. III - S1: Geography of Tourism - I <b>OR</b> Gg: 212(B) - Sem. III - S1: Physical Geography of Maharashtra	Gg. 232 (DSE 1 A) Sem. III Geography of Tourism
Gg: 222 (A)- Sem. IV - S1: Geography of Tourism - II <b>OR</b> Gg: 222(B) - Sem. IV - S1: Economic Geography of Maharashtra	Gg. 242 (DSE 1 B) Sem. IV Geography of India
Gg: 213 - Sem. III - S2: Practical Geography – I (Scale and Map Projections)	Gg. 233 (DSE 2 A) Sem. III Practical Geography (Scale and Map Projection)
Gg: 214 - Sem. IV - S2: Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)	Gg. 243 (DSE 2 B) Sem. IV Practical Geography (Surveying)
--	Gg. 234 (SEC 1) Sem. III Regional Planning and Development
--	Gg. 244 (SEC 2) Sem. IV Remote Sensing and GPS Based Project Report
--	Gg. 245 (DSC 3 D) Sem. IV Minor Study Project <i>In semester IV, DSC 3 D will be Minor Study Project of DSE 1 B and 2 B (Papers of Special Subject)</i>

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under Faculty of Science and Technology

S.Y.B.A. SEMESTER- III

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

**DSC-C (Gg.231): GENERAL CARTOGRAPHY**

Total Credits – 2

Internal Marks - 40

Total Clock Hours – 45

External Marks – 60

## **Objectives:**

*To acquaint the knowledge about practical and theoretical understanding of Cartographical concepts*

Unit	Topic	Sub-Topics	Hours	Marks
I	Practical Component	<p><b>A) Representation of Data: Symbols, dots, Choropleth, Isopleths and Flow Diagram.</b></p> <p><b>B) Practical Component</b> <i>(Every candidate shall complete the 04 practicals prescribed in the practical component or candidates also perform any practical apart from following practicals from practical component related to concerned course based on regional requirement or importance with the prior permission of course teacher. (Overall 04 practicals must be performed)</i></p> <ol style="list-style-type: none"><li>1. Reading of Map Scale</li><li>2. Actual measurements of land as per scale</li><li>3. Draw a simple graphical Scale</li><li>4. Map labeling</li><li>5. Draw the major parallels of latitudes on the world map</li><li>6. Draw the major meridians of longitudes on the world map</li><li>7. Draw the great circle on the map</li><li>8. Prepare a one air route on a world map</li><li>9. Filling the major city/canal/capital on the world map</li><li>10. Draw the weather symbols</li><li>11. Prepare star diagram</li><li>12. Draw the cylindrical equal area projection</li><li>13. Draw the combined line and bar graph</li><li>14. Construct the conical projection</li><li>15. Interpretation of thematic map</li><li>16. Analyzed of weather data</li><li>17. Criteria of forecasting of weather</li></ol>	30	
II	Introduction of cartography And Maps	<p>(A) Define the cartography</p> <p>(B) Explain the history of cartography in modern India</p> <p>(C) Types of Map</p> <p>(i) Thematic Map</p>	05	15

		(ii) Topological Map (D) Elements Map (E) Uses of Maps in various fields		
<b>III</b>	<b>Maps &amp; Scale</b>	(A) Definition of scale (B) Methods of representing of scale (a) Numerical Scale (b) verbal Scale (c) Graphical Scale (C) Conversion Scale (British & Metric System) (D) Conversion of Nautical Mile in feet & Meters	05	25
<b>IV</b>	<b>Map Projection</b>	<b>(A) Introduction</b> (i) Definition of map & globe (ii) Definition of map projection <b>(B) Classification of map projection</b> (according to constructional approach) (i) Perspective projection (ii) Non- perspective projection <b>(C) Criteria for choice of following projections</b> <b>a) Developable Surface</b> <b>b) Source of Light</b> <b>c) Position of Developable Surface Projections</b> i, Zenithal Gnomonic projection ii, Zenithal stereographic projection iii, Cylindrical equal area Projection iv, Conical Projection with one standard parallel v, Bonne's projection <b>(D) Properties and Uses of following projection</b> i, Zenithal Gnomonic projection ii, Zenithal stereographic projection iii, Cylindrical equal area Projection iv, Conical Projection with one standard parallel v, Bonne's projection	05	20
<b>Total</b>			45	60

**Instructions:**

**I. Nature of Practical Exam. (Internal Practical Test Exam):-**

Practical Exam is of 40 marks (Internal Exam) in each semester. ---

**A. Submission of Practical journal = 20 Marks** (Each Practical 05 Marks (4×5=20))

**B. Oral Exam (at semester end) = 15 Marks**

**C. Attendance & Behavior = 05 Marks**

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**Total = 40 Marks**

2. Every candidate shall complete the 04 practicals entering these practicals in the laboratory journal, which shall be produced at the time of Internal test exam along with the certificate sign by course teacher, head of the department and Principal of the concern college.
3. Practical examination (Internal Test Exam) is to be conducted at the end of the semester prior to the 15 days before theory exam.
4. U.A. Question Paper should be based on Unit No. II, III and IV only.

University Assessment (U.A.)	<b>60</b>
College Assessment (C.A.) (Internal Practical Test Exam)	<b>40</b>

**References: -**

1. Dent B. D., 1999: *Cartography: Thematic Map Design, (Vol. 1), McGraw Hill.*
  2. Gupta K. K and Tyagi V. C., 1992: *Working with Maps, Survey of India, DST, New Delhi.*
  3. Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography, Concept Publishing.*
  4. Robinson A., 1953: *Elements of Cartography, John Wiley.*
  5. Sharma J. P., 2010: *Prayogic Bhugol, Rastogi Publishers.*
  6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography, Kalyani Publishers*
  7. Singh R. L., 1998: *Prayogic Bhoogol Rooprekha, Kalyani Publications.*
  8. Steers J. A., 1965: *An Introduction to the Study of Map Projections, University of London*
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# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

## Under Faculty of Science and Technology

### S.Y.B.A. SEMESTER- IV

#### New Syllabus (CBCS Pattern)

(with effect from: June 2019)

#### DSC-D (Gg. 241): HUMAN GEOGRAPHY

Total Credits – 2

Internal Marks - 40

Total Clock Hours – 45

External Marks – 60

Unit No.	Unit	Sub Unit	Hours	Marks
1	<b>Practical Component</b>	<p><b>Practical Component</b>  <i>(Every candidate shall complete the 04 practicals prescribed in the practical component or candidates also perform any practical apart from following practicals from practical component related to concerned course based on regional requirement or importance with the prior permission of course teacher. (Overall 04 practicals must be performed)</i></p> <ol style="list-style-type: none"> <li>1. Calculate child women ratio of the District/Tahsil/Village.</li> <li>2. Age Sex pyramid</li> <li>3. Dependency ratio</li> <li>4. Population growth rate</li> <li>5. Density of population</li> <li>6. Fertility rate</li> <li>7. Mortality rate</li> <li>8. Study of settlement of any region (Size, Location, Work etc.)</li> <li>9. Study of health facilities of tribal people</li> <li>10. Study of mode of life of local tribes</li> <li>11. Distribution of population</li> <li>12. Occupational structure</li> <li>13. Educational structure</li> <li>14. Socio-economic condition of local area</li> <li>15. Economic status according to income</li> </ol>	30	
2	<b>Introduction to Human Geography</b>	<ol style="list-style-type: none"> <li>1. Definitions, Nature and Scope of Human Geography.</li> <li>2. Branches of Human Geography</li> <li>3. Determinism and Possibilism</li> <li>4. Stop and Go Determinism</li> </ol>	05	15
3	<b>The Race of Mankind, Religion and Language</b>	<ol style="list-style-type: none"> <li>1. Meaning and definition of race</li> <li>2. Physical basis of racial groups</li> <li>3. Classification of World Races (Caucasoid, Mongoloid, Negroid, Australoid)</li> <li>4. Ethnic groups in India.</li> <li>5. Major religion in the world and their distribution</li> <li>6. Major languages in India (Hindi, Marathi, Gujrathi and Tamil)</li> </ol>	05	25

4	Population and Settlement	<b>A) Population:</b> 1. Factors affecting population distribution 2. Distribution of population and growth of Population: Global and National	05	20
		<b>B) Settlement:</b> 1. Definitions of Rural and Urban Settlement 2. Types of Settlements: Rural & Urban 3. Process of Urbanization 4. Patterns of Rural Settlement.		
<b>Total</b>			<b>45</b>	<b>60</b>

**Instructions:**

**I. Nature of Practical Exam. (Internal Practical Test Exam):-**

Practical Exam is of 40 marks (Internal Exam) in each semester. ---

**A. Submission of Practical journal = 20 Marks** (Each Practical 05 Marks (4×5=20))

**B. Oral Exam (at semester end) = 15 Marks**

**C. Attendance & Behavior = 05 Marks**

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**Total = 40 Marks**

2. Every candidate shall complete the 04 practicals entering these practicals in the laboratory journal, which shall be produced at the time of Internal test exam along with the certificate sign by course teacher, head of the department and Principal of the concern college.
3. Practical examination (Internal Test Exam) is to be conducted at the end of the semester prior to the 15 days before theory exam.
4. U.A. Question Paper should be based on Unit No. II, III and IV only.

University Assessment (U.A.)	<b>60</b>
College Assessment (C.A.) (Internal Practical Test Exam)	<b>40</b>

***Reference Books:***

1. Barrett H. R., 1995: Population Geography, Oliver and Boyd.
2. Carter Harold (1977): The study of Urban Geography
3. Clarke, J.I. (1992): Population Geography, Pergamon Press, Oxford.
4. Hans Raj (1978): Fundamentals of Demography
5. Hornby, F. William and Jones, M. (1987): An Introduction to Population Geography, Cambridge University Press, Cambridge.
6. Hudson F.S. (1976): Geography of Settlements
7. Liendsor, J. M. (1997): Techniques in Human Geography, Routledge.
8. Majid Husain, Human Geography,
9. Michael E. and E. Hurse: Transportation Geography

10. Pollard A. H. and Farhat Yusu: Demographic Techniques
11. Singh, R. L. Reading in Rural Settlement Geography
12. Yeats, M. H. (1974). An introduction to Quantitative Analysis in Human Geography.
13. ए. के. खातीब., मानवी भूगोल,
14. डॉ. व्ही. जे. पाटील आणि डॉ. आर. व्ही. भोळे, मानवी व आर्थिक भूगोल,
15. डॉ. नामदेव नरसिंगराव गजरे - मानवी भूगोल, प्रशांत पब्लिकेशन, जळगाव
16. Bhaise S. D. and Mhaski D. A – Loksankhya Bhugol (Marathi Medium) : Atharva Publication, Jalgaon
17. Bhaise S. D. and Mhaski D. A – Medical Geography (Marathi Medium) : Atharva Publication, Jalgaon

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

## Under Faculty of Science and Technology

### S.Y.B.A. SEMESTER- III

#### New Syllabus (CBCS Pattern)

(with effect from: June 2019)

#### Gg. 232 (DSE 1 A): GEOGRAPHY OF TOURISM

Total Credits – 3.

Internal Marks - 40

Total Clock Hours – 45

External Marks – 60

#### Objectives

1. To develop and communicate basic conceptual frame work of Geo Tourism.
2. To realize its potentials and against achieved in the Indian context.
3. To understand the various Geo tourism.
4. To know the role and responsibilities, economic growth of Tourism industry in India.
5. To evaluate the role of various organization of tourism.
6. To know the importance of the sustainable tourism.
7. To develop Socio cultural aspects for the Tourism geography.

Sr. No.	Topic	Sub Topics	Hours	Marks
1	Introduction to Tourism Geography	<p><b>(A) Introduction to Tourism Geography</b> i) Concept of Tourism, ii) Definition of tourism, iii) Nature and scope of tourism geography, iv) Role of geography in tourism, v) Components and characteristics of tourism geography.</p> <p><b>(B) Factors affecting on Tourism.</b> 1) <b>Physical –</b> i) Relief, Beaches, Waterfall, Mountain &amp; Hot – spring ii) Climate – Hill station, Health resort iii) Vegetation – National park, Sanctuaries 2) <b>Cultural –</b> i) Religious and pilgrim centres ii) Historical monuments iii) Archaeological sites. 3) <b>Economic –</b> i) Accommodation ii) Transportation</p>	12	16

2	<b>Recent Trends and Types of Tourism</b>	<b>A) Regional Tourism;</b> <b>i) Domestic-</b> (India) a) Geographical (Hill Station)- Darjeeling b) Historical- Ajanta c) Educational- Kolkata & Pune d) Beaches- Goa <b>ii) Eco-tourism</b> –Sanctuaries, Forts Capital & historical places and national park (M.P., Gujarat & Maharashtra) <b>iii) Sustainable Tourism</b> - Agro tourism, heritage tourism & Adventure tourism <b>B) Role of MICE</b> (Meetings, Incentives, Conventions and Exhibitions) in Tourism <b>C)Types of Tourism:</b> Cultural Tourism, Medical Tourism, Pilgrimage & Eco tourism	10	16
3	<b>Impact of Tourism</b>	<b>A) Economy –</b> i) Employment ii) Increased trade iii) Inflation of land values iv) Increased revenue v) Effect of foreign exchange <b>B) Society –</b> i) Regional language ii) Cultural change iii) Crime & gambling iv) Establish new colonies <b>C) Environment –</b> i) Land ii) water iii) Noise iv) Air	12	14
4	<b>Tourism in India</b>	<b>A) National tourism policy in India</b> <b>B) Infrastructure &amp; support system for tourism</b> <b>C)Tourism development in Konkan region</b> <b>D)Tourism development in Khandesh region:</b> case study of Patna Devi, Toranmal and Pal.	11	14

### **Weightage of Marks**

Unit No	Marks	Hours
1	16	12
2	16	10
3	14	12
4	14	11
<b>University Exam</b>	<b>60</b>	-
<b>Internal examination</b>	<b>40</b>	-

## **Reference Books**

1. Dhar, P.N. (2006) International Tourism: Emerging Challenges and Future Prospects. Kanishka, New Delhi.
2. Hall, M. and Stephen, P. (2006) Geography of Tourism and Recreation Environment, Place and Space, Routledge, London.
3. Kamra, K. K. and Chand, M. (2007) Basics of Tourism: Theory, Operation and Practise, Kanishka Publishers, Pune.
4. Page, S. J. (2011) Tourism Management: An Introduction, Butterworth Heinemann- USA. Chapter 2.
5. Raj, R. and Nigel, D. (2007) Morpeth Religious Tourism and Pilgrimage Festivals Management: An International perspective by, CABI, Cambridge, USA, [www.cabi.org](http://www.cabi.org)
6. Tourism Recreation and Research Journal, Center for Tourism Research and Development, Lucknow
7. Singh Jagbir (2014) "Eco-Tourism" Published by - I.K. International Pvt. Ltd. S- 25, Green Park Extension, Uphaar Cinema Market, New Delhi, India ([www.ikbooks.com](http://www.ikbooks.com)).
8. Sing R.L (1985): Regional Geography of India,
9. Sheth – Tourism Management ( New Delhi Sterling) Sustainable tourism development guide for local planner by WTO
10. Dixit M : Tourism Geography and Trends Royal Publication
11. Bhatia – Tourism development New Delhi Sterling.

## **Marathi Medium Books**

1. Suryawanshi D.S, Pryatan Bhugol, Pritam Prakashan Jalgaon
2. Shinde S B, Pryatan Bhugol, Phadke Prakashan Kolhapur
3. Bhatewal D.P. & Baviskar V. R., Paschim Bhartacha Sanskrutik ani Paryatan Bhogol, Atharva Publication, Jalgaon
4. Gharpure V.T. Pryatan Bhugol Vidya prakashan Nagpur
5. Bhagwat and Joshi Pryatan Bhugol Murlidhar Prakashan pune
6. Wagh & Sonawane Pryatan Bhugol Atharva Prakashan Jalgaon
7. Nagtode Pardhi D A Pryatan Bhugol pimpalpure Prakashan Nagpur
8. Sambhaji Patil Pravas vyawasthapan and Pryatan udyog Atharva Publication Jalgaon
9. Bhatewal D.P. & Baviskar V. R., Paryatan Bhugol, Prashant Publication, Jalgaon
10. Khatib K.A Pryatan Bhugol Ajab Pustakalaya Kolhapur

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under faculty of Science and Technology

S.Y.B.A. SEMESTER- IV

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

Gg. 242 (DSE 1 B): GEOGRAPHY OF INDIA

Total Credits – 3.

Internal Marks - 40

Total Clock Hours – 45

External Marks – 60

## Objectives:

- i. To make the students able to understand Geographical Personality of India.
- ii. To study minerals and power resources in the specific regions of India.
- iii. To study the nature of industries and their development in India.
- iv. To aware the students about agricultural and demographic problems and make them able to find remedial measures on those problems.

Unit	Topic	Sub Topics	Hours	Marks
1	Geographical personality of India	<b>A) Introduction:</b> i) Location, extent and Geographical area ii) Administrative divisions of India iii) Adjoining countries <b>B) Physiography:</b> i) Physiographic divisions of India (a) The Northern Mountainous Region- Himalaya (b) The Northern Indian Plain (c) The Peninsular plateau (d) Coastal Plains (e) Indian Islands <b>C) Drainage:</b> i) Drainage system (a) Himalayan Drainage system (b) Peninsular Drainage system	10	14
2	Climate, Soils and Natural Vegetation	<b>A) Climate</b> i) Characteristics of climate ii) Factors affecting on climate iii) Seasons and rainfall distribution <b>B) Soils:</b> i) Major soil types in India ii) Soil Erosion and conservation in India <b>C) Vegetation:</b> i) Major Types and Distribution of natural vegetation ii) Economic importance of forest	12	16
3	Population and Agriculture	<b>A) Population:</b> i) Growth of population in India Since 1901 ii) Factors affecting the distribution of population in India (Physical and Cultural) iii) State – wise Density distribution of	12	15

		Population in India. iv) Sex Ratio - its regional variation and associate problems of low Sex Ratio. <b>B) Agriculture:</b> i) Study of geographical condition, Production and distribution of following crops: a) Rice      b) Cotton ii) Agro-climatic Regions of India		
4	<b>Resources and Industries</b>	<b>A) Mineral and Power Resources:</b> Production and distribution of following resources: i) Iron ore ii) Bauxite iii) Coal iv) Hydel Power <b>B) Industries:</b> i) Distribution and Production of following Industries. a) Cotton Textile industries b) Sugar Industries ii) Major Industrial Belts in India. iii) Industrial Policy of India	11	15

#### Weightage of Period and Marks

Unit No.	Hours	Marks
1	10	14
2	12	16
3	12	15
4	11	15

**University Assessment (U.A.) = 60**

**College Assessment (C.A.) = 40**

#### **References:**

- 1) Dastane, "Bharat Ek Pahani", Dastane Ramchandra and Company.
- 2) Gharpure V.T. (2004): "Bharatacha Bhugol", Pimplapure Prakashan, Nagpur (Marathi Medium)
- 3) Hussain M. (1992): "Geography of India", Tata MacGraw Hill Education.
- 4) Miller F.P. and et. Al. (2009): "Geography of India", Alphascript Publishing.
- 5) Nag P. and Sengupta S.: "Geography of India", Concept Publishing Company.
- 6) Patil V.J., Sandanshiv L.P. & Mrs. Jangale P.P. (2017): "Physical Geography of India", Prashant Publication, Jalgaon (MS).
- 7) Patil V.J., Sandanshiv L.P. & Mrs. Jangale P.P. (2017): "Economic Geography of India", Prashant Publication, Jalgaon (MS).

- 8) *Puranik Madhav (2005): "Bharatacha Bhugol", Vidya Prakashan, Nagapur.*
- 9) *Rana, Tejbir Singh (2015): "Diversity of India", R.K. Book, Delhi.*
- 10) *Sandanshiv L.P. and et. al. (2015): "NET/ SET Geography", Prashant Publication, Jalgaon (Marathi).*
- 11) *Sinnggh Jasbir, "An Agricultural Atlas of India: A Geographical Analysis". Tata MacGraw Hill Education.*
- 12) *Sinha B.N., "Industrial Geography of India.*

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under faculty of Science and Technology

S.Y.B.A. SEMESTER- III

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

Gg. 233 (DSE 2 A): PRACTICAL GEOGRAPHY

(Scale and Map Projections)

(Work load – 06 Periods per week per batch of 12 students)

Total Credits – 3.

Internal Marks - 40

Total Clock Hours – 90

External Marks – 60

## Objectives

1. To give basic information about various tools and techniques used in making maps.
2. To understand the concept of scale at the initial stage
3. To know how to draw the maps on various scale
4. To acquaint the students with basic of Scale, Map Projections and cartographic Techniques
5. To enable the students to use Scale Map Projections and cartographic techniques

Sr.No.	Unit	Sub Unit	Hours
1	Scale	Definition of Map Scale Methods of Scale Representation Conversion of Scale ( British & Metric System) 1. Verbal Scale to R.F. 2. R. F. to Verbal Scale Construction of scales 1. Simple Graphical Scale 2. Time and Distance Scale 3. Comparative Scale	30
2	Classification of Map Projection	A. Maps and Globe : Definition, Meaning B. Classification and Types of Map C. Importance and use of maps D. Need and Use of Map Projections E. Classification of Map Projection on the basis of their development 1. Perspective Projections 2. Non Perspective Projections 3. Conventional Projections	25
3	Construction of Map Projections	A. Zenithal Polar Projection 1. Zenithal Polar Gnomonic Projection 2. Zenithal Polar Stereographic Projection B. Cylindrical Projection 1. Cylindrical Equal Area Projection	

		2. Mercator's Projection 3. Introduction to Universal Transverse Mercator's (UTM) Projection C. Conical Projection 1. Conical Projection with one Standard Parallel 2. Bonne's Projection. D. Choice of Map Projections	35
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### Weightage of Marks

Unit	Unit	Weightage
1	Scales	20
2	Map Projections	10
3	Construction of Map Projections	30
	University Assessment (U.A.)	60
	College Assessment (C.A.)	40
	<b>Total Marks</b>	<b>100</b>

### Internal Practical Test Exam.

- 1) Attendance and Behavioral: 10 Marks  
2) Internal Test : 30 Marks

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**Total : 40 Marks**

### References Books

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- Gupta K. K and Tyagi V. C., 1992: Working with Maps, Survey of India, DST NewDelhi.
- Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, ConceptPublishing.
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**Websites**

- a) Geological Survey of India: [www.gsi.gov.in](http://www.gsi.gov.in)
- b) Indian National Cartographic Association: [www.incaindia.org](http://www.incaindia.org)
- c) Indian Naval Hydrographic Department: [www.hydrobharat.nic.in](http://www.hydrobharat.nic.in)
- d) National Bureau of Soil Survey and Land Use planning: [www.nbsslup.in](http://www.nbsslup.in)
- e) Survey of India: [www.surveyofindia.gov.in](http://www.surveyofindia.gov.in)

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under faculty of Science and Technology

S.Y.B.A. SEMESTER- IV

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

Gg. 243 (DSE 2 B): PRACTICAL GEOGRAPHY

(Surveying)

(Work load – 06 Periods per week per batch of 12 students)

Total Credits – 3.

Internal Marks - 40

Total Clock Hours – 90

External Marks – 60

## Objectives

1. To acquire knowledge of survey language and sense of technique of surveying.
2. To know the scale and distance of surveying.
3. To know how to draw layout by surveying of region.
4. To acquaint the students with basic knowledge and technique of ground survey.
5. To acquire the knowledge of survey instruments.
6. To provide basic information about mechanism of survey instruments.
7. To acquaint the knowledge how to use survey instruments.
8. To know the importance of surveying and survey instruments.

Unit	Topic	Sub-Topic	Hours
1.	Introduction to Surveying	<b>A) Introduction to Surveying:</b> Definitions <b>B) Basic principles of surveying.</b> <b>C) Types of Survey:</b> a) Plane Survey b) Geodetic Survey <b>D) Classification of Survey:</b> a) <b>According to purpose:</b> 1) Topographical 2) Cadastral 3) Geodetic 4) Engineering 5) Railway 6) Military b) <b>According to instruments used:</b> 1) Chain or Tape Survey 2) Compass Survey 3) Levelling Survey 4) Theodolite Survey <b>E) Various Methods of deciding North direction:</b> True, Magnetic and Grid North.	30

2.	Plane Table Survey	<b>A) Plane Table Survey.</b> <b>B) Necessary Equipments of Plane Table Survey:</b> 1) The plane table with a tripod stand 2) Alidade 3) Chain or Tape 4) Spirit level 5) Trough Compass 6) Ranging Rods 7) Plumb bob 8) Drawing essential: Paper, pencil, rubber, drawing pins, pencil, sharpener, scale etc. <b>C) Methods of Plane Table Survey:</b> 1) Radiation Method 2) Intersection Method <b>D) Advantages and Disadvantages of Plane Table Survey.</b> <b>E) At Least Experiment of Actual Measurement of Piece of Land or Ground.</b>	40
3.	Study Tour/ Village Survey	Tour / Excursion or Village Survey Report	20

### **Weightage of Marks**

Unit No	Weightage
1	15
2	25
3	20
<b>Total</b>	<b>60</b>

University Assessment (U.A)	60
College Assessment (C.A)	40
<b>Total Marks</b>	<b>100</b>

### **Internal Practical Test Exam.**

- 1) Attendance and Behavioral: 10 Marks  
 2) Internal Test : 30 Marks

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**Total : 40 Marks**

**Note:** The educational tour or village survey should be conduct and organized by the directions of Maharashtra Govt. rules and regulations.

## Reference Books:

1. Monkhouse, F.X.J. & Wilkinson, H.R.(1971): Maps & Diagrams, London Methuen
2. Mishra, R.P and Ramesh A. (2000): Fundamental of Cartography, Concept Publishing Company, New Delhi.
3. Robinson, A.H. & Sleep, R.D.(1969): Elements of Practical Geography. New York, John Wiley
4. Singh Gopal (1996): Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi
5. Singh, R.C. and Dutta (1993): Elements of Practical Geography, Kalyani Publications, New Delhi
6. Singh, Lekhraj & Singh Raghunandan (1973): Map work and Practical, Central Book Deopt. Allahabad
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9. Gopal Sing (1973): Map work and Practical Geography, Vikas Publication, Ravindra Mansion, Ram Nagar, New Delhi-110055
10. Dr. D. Y. Ahirrao and Dr. E. K. Karanjkehele, (2002) : Pratyakshik Bhugol, Sudarshan – Nashik
11. Dr. P. G. Saptarshi and Dr. S. R. Jog, Statistical Methods.
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13. डॉ. अर्जुन कुंभार – प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोंबिवली.
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# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under faculty of Science and Technology

S.Y.B.A. SEMESTER- III

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

## Gg. 234 (SEC 1): REGIONAL PLANNING AND DEVELOPMENT

Total Credits – 2.

Internal Marks - 40

Total Clock Hours – 60

External Marks – 60

### Objectives:

1. Student will become well aware about the Regional Planning and Development.
2. Students will get the knowledge of planning, its limitation.
3. Students will be able to participate in planning and regional development.
4. Students will get knowledge about various approaches and models of regional planning and development.
5. Students will be aware of the Special area development plans and Agro Ecological Zones of Maharashtra.

Sr. No.	Topic	Sub Topics	Hours	Marks
1	Regional Planning	A. Concept, Need of regional Planning. B. Characteristics of Regional Planning C. Types of regional planning- Short and long term, physical and economic, developmental and imperative, regional, national, international level planning. D. Approaches to regional planning- Export based, growth based, input based.	18	18
2	Regional Development	A. Concept of growth and development. B. Measures of Regional development. (Indicators-Economic, Social and Environmental)	12	12
3	Models of regional planning and Development	A. Regional Development models – Rastows Model of economic development. B. Models for regional planning- Growth Pole Theory in Indian context.	12	12

<b>4</b>	<b>Regional Planning and Development in India</b>	<p>A. Regional Planning- Special Area Development Plans in India; WGDP (Western Ghats Development Programme) The Success Story and the Failures, Backward Regions of India.</p> <p>B. Regional planning in India. (Through five years plans)</p> <p>I) Rural development planning.</p> <p>II) Tribal area development planning.</p> <p>A. Regionalization of Maharashtra for Planning (Agro Ecological Zones )</p> <p>B. NITI Aayog</p>	<b>18</b>	<b>18</b>
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### ***References:***

1. Blij H. J. De,( 1971): Geography: Regions and Concepts, John Wiley and Sons.
2. Claval P.I,( 1998): An Introduction to Regional Geography, Blackwell Publishers, Oxford and Massachusetts.
3. Friedmann J. and Alonso W. (1975): Regional Policy - Readings in Theory and Applications, MIT Press, Massachusetts.
4. Gore C. G.,( 1984): Regions in Question: Space, Development Theory and Regional Policy, Methuen, London.
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7. Johnson E. A. J.,( 1970): The Organization of Space in Developing Countries, MIT Press, Massachusetts.
8. Peet R.,( 1999): Theories of Development, The Guilford Press, New York.
9. UNDP (2001-04): Human Development Report, Oxford University Press.
10. World Bank (2001-05): World Development Report, Oxford University Press, New

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under faculty of Science and Technology

S.Y.B.A. SEMESTER- IV

New Syllabus (CBCS Pattern)

(with effect from: June 2019)

Gg. 244 (SEC 2): REMOTE SENSING AND GPS BASED PROJECT REPORT

Total Credits – 2.

Internal Marks - 40

Total Clock Hours – 60

External Marks – 60

## Objectives:

1. To understand the principles of Remote Sensing.
2. To acquaint the students with fundamental concepts of Aerial Photography.
3. To introduce students with advance techniques for data collection.
4. To learn principles and applications of GPS.
5. To learn basics of GPS based survey.

No.	Topic	Sub-Topics	Hours	Marks
1	Introduction to Remote Sensing	A) Introduction, Definition and Need of Remote Sensing B) Process of Remote Sensing in brief C) Applications of Remote Sensing D) Advantages and Limitations of Remote Sensing	16	14
2	Basic Principles of Remote Sensing	A) Sources of Energy and Radiation Principles B) Electromagnetic Spectrum C) EMR interaction with Atmosphere- Scattering, Absorption, Reflection D) EMR interaction with earth's surface features- Reflection, Absorption, Emission and Transmission	16	16
3	Types of Remote Sensing and Aerial Photography	A) Classification Based on Energy Source - Active and Passive remote Sensing B) Classification Based on Platforms – Air and Space Born a. Sensors – Major Types b. Orbital Characteristics Satellites C) Introduction, Types ( Vertical and Low Oblique and High Oblique )and Scale of Aerial Photographs	18	20
4	GPS based Project Report	A) Introduction and Segments of GPS B) Applications of GPS C) GPS based Project Report a) Preparing GPS for data collection	10	10

		b) Input in GPS (Way points and Routes) c) Getting data from GPS to GIS d) Output as map or layout (Surfer, Easy GPS etc. software's)		
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<b>Weightage of Marks</b>		
<b>Units</b>	<b>Hours</b>	<b>Marks</b>
<b>1</b>	<b>16</b>	<b>14</b>
<b>2</b>	<b>16</b>	<b>16</b>
<b>3</b>	<b>18</b>	<b>20</b>
<b>4</b>	<b>10</b>	<b>10</b>
<b>Total</b>	<b>60</b>	<b>60</b>
<b>University Assessment</b>	<b>--</b>	<b>60</b>
<b>College Assessment</b>	<b>--</b>	<b>40</b>
<b>Total Marks</b>	<b>--</b>	<b>100</b>

### ***References:***

#### ***English Medium -***

- 1) Bhatta, Basudeb (2011) Remote Sensing and GIS, Oxford University Press, New Delhi.
- 2) Jensen, J.R. 2000, Remote Sensing of the Environment: An Earth resource Perspective. Prentice Hall.
- 3) Joseph George, 2003, Fundamentals of remote sensing. Universities Press
- 4) Lillesand, T.M., and Kieffer, R.M., 1987, Remote Sensing and Image Interpretation, John Wiley.
- 5) Sabbins, F.F., 1985, Remote sensing Principles and interpretation. W.H.Freeman&company
- 6) American society for Photogrammetry and Remote Sensing, 1999, Remote Sensing for the Earth Sciences, Manual of Remote Sensing, 3rd ed., vol. 3, Wiley, New York.

#### ***Marathi Medium -***

- 1) Dr. Shrikant Karlekar (2007) "Bhougholic Mahiti Pranali" Diamond Publication Pune.
- 2) Dr. Shrikant Karlekar (2007) "Dursavedan" Diamond Publication Pune.
- 3) Dr. D. S. Suryawanshi (2018) "Geoinformatics" Prashant Publications, Jalgaon.
- 4) Dr. D. S. Suryawanshi and Dr. S. C. Ahire (2019) – Geoinformatics, Prashant Publication, Jalgaon

**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON**  
**S.Y.B.A. GEOGRAPHY – CBCS PATTERN**  
 Semester – IV  
 Discipline Specific Core Course (DSC)  
**Gg. 245 (DSC 3D): MINOR STUDY PROJECT**  
 W.E.F. – June 2019

Total Credits: 2

Total Clock Hours: 60

**Objectives:**

1. To motivate the students towards Research.
2. To understand the various problems in the field of Geography.
3. To introduce research methodology and to inculcate research aptitude.
4. To enhance analytical thinking and report writing ability of the students.

<i>This is theory part introduce to the students by allotted guide teacher and guiding to the students on selected research problem.</i>		
<b>Unit</b>	<b>Sub Unit</b>	<b>Marks</b>
<b>Introduction to the Research</b>	-Define Research. -Research Motivation. -Types of Research. -Significance of Research. -Defining Research Problem. -Objectives of the Research. -Hypothesis. -Research Methodology. -Research Methods -Data Collection- Primary & Secondary -Tools & Techniques -Analysis & Interpretation. -References. -Project Report Writing.	---

<b>Minor Study Project.</b>		
<b>Unit</b>	<b>Sub Unit</b>	<b>Marks</b>
<b>Minor Study Project</b> <i>one project offers to maximum 5 students (one group)</i>	<i>-The Minor study report on various geographical topics (especially related to the problems in concerned local region i.e. Village/Tahsil/District/Khandesh level) will be a comprehensive work based on conceptual aspects, field work and analysis of primary and secondary data in the laboratory.</i> <i>-Students are required to select an exploratory topic of geographical importance based on empirical evidences of literature. They are expected to carry out field work &amp; generate primary data or collect secondary data, analyze it &amp; prepare a Project Report to submit at the time of examination.</i>	60

## General Guide Lines for the Writing Project Report:-

- The final project report should cover the following aspects.
  - Introduction to the problem.*
  - Aims and objectives of the study.*
  - Methodology*
  - Analysis, description and interpretation.*
  - Results*
  - Conclusions*
  - Bibliography*
  - Appendices*
- Every table, figure, maps, photograph should have a caption and with references.
- The list of references should be given at the end and all the references should be complete in all respects (author(s) name, year, title of the article or book, name of the journal, name of the publisher of the book and place of publication, volume of journal and page numbers).

*Example- Wagh, S. A. (2015) : Physical Geography, Atharva Publications, Jalgaon*  
*Wagh, S. A. And Patil, M. B. (2019) : Gender Disparity in Maharashtra : A Geographical Analysis, Ajanta Research Journal, Vol. III, Issue I, January-March 2019, Pp. 55-63.*
- The total number of pages should be **minimum 30 and maximum 40**, including text, figures, tables, photographs, references and appendices.
- The medium of writing will be Marathi and English. Project report should be **Hand written only**, computer typing strictly prohibited.
- At the time of viva-voce presentation may be given with the help of equipments which are available in the respective department.

### *Internal Marks*

<b>Attendance &amp; Behavior</b>	<b>10</b>
<b>Presentation with PPT OR (Viva-Voce)</b>	<b>30</b>
<b>Total Internal Marks</b>	<b>40</b>

### *External Marks*

<b>Project Report</b>	<b>60</b>
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### *Important Notes:*

- Assessment of the project by guide teacher. One Copy of the Project and Sealed Mark list submit to the College Principal by guide teacher after conducting viva-voce.
- Allocate of Guide Teacher at the start of Sem-III by Head of the concerned department through discussion with all other teachers as per their area of specialization/ interest.

3. Allotted guide teacher should assist the students for selecting research problem, construct objectives and hypothesis and guiding on related topics from beginning of the Sem-III.
4. Guide teacher is expected to guide the students **in his/her regular periods of the week** for data collection, data interpretation and writing project report.
5. Introduce theory part related to research methodology within allotted regular periods.

- **Suggested Topic for Minor Study Project :-**

*Maximum 05 students should have select one topic of their interest through discussion with concern guide teacher. The following inventory is for the convenient only. A guide teacher is free to choose any other topic related to Geography apart from the list given below.*

- **Population Geography-**

1. Sex Ratio
2. Population Growth
3. Population Distribution
4. Population Characteristics
5. Literacy
6. Occupational Structure
7. Social study
8. Migration
9. Tribal/Rural/Urban Population Problems

- **Agricultural Geography-**

1. Land Use
2. Crop Combination/Diversification
3. Cropping Pattern
4. Agricultural Production
5. Irrigation System
6. Agricultural Market
7. Farming
8. Soil
9. Live stock Farming

- **Economic Geography-**

1. Human Occupations
2. Trade and Transport
3. Globalization
4. Agricultural Economy
5. Regional Development

- **Settlement Geography-**

1. Settlement Pattern
2. Rural Settlement study
3. Urban Settlement study
4. Tribal Settlement study

5. Rural Service Centre
  6. Urban Sprawl
  7. Problems of villages/cities
- **Human Geography-**
    1. Human Race
    2. Food Security
    3. Poverty
  - **Geomorphology/Physical Geography-**
    1. Geomorphic study
    2. Watershed Management
    3. Groundwater
    4. Morphometric Analysis
    5. Endogenic Forces
    6. Exogenic Forces
  - **Biogeography/Phytogeography-**
    1. Natural Vegetation
    2. Wildlife
    3. Forest
    4. Biodiversity
  - **Medical Geography-**
    1. Health status
    2. Malnutrition
    3. Fertility/Mortality
  - **Social and Cultural Geography-**
    1. Religion Composition
    2. Social Aspects
    3. Language
    4. Cultural Aspects
  - **Environmental Geography-**
    1. Environmental Issues
    2. Global Warming
    3. Climate Change
    4. Ozone Depletion
    5. Hazards
    6. Pollution
    7. Natural Resources
    8. Water Scarcity
  - **Remote Sensing and GIS-**
    1. Application of Remote Sensing in....
    2. .... Analysis with the help of GIS

## References:-

1. Archer J.E. & dalton T.H. (1968): *The fields work in Geography*, E.t. Batsford Ltd.,London.
2. Dikshit, R. D. 2003. *The Art and Science of Geography: Integrated Readings*. Prentice-Hall of India, New Delhi.
3. Johnes, P.A. (2008): *Field Work in Geography*, Longman.
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9. Sudhir Bodhankar and Vivek Aloni (2007) : *Samajik Sanshodhan Paddhati*, Sainath Prakashan, Nagpur
10. Pradip Aaglave- *Samajik Sanshodhan Paddhati*

## **Nature of Question Paper (CBCS Pattern Class S.Y.B.A.)**

**Time: 2 Hours**

**Total Marks: 60**

**Instructions:**

1. All questions have equal marks.
  2. All questions are compulsory
  3. Draw neat and labeled diagram wherever necessary.
  4. Use of map stencil is allowed.
  5. Figures to right indicate full marks.
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**Q.-1 Answer in one sentence: (Any 6 out of 9 )**

**12 Marks**

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_
- f) \_\_\_\_\_
- g) \_\_\_\_\_
- h) \_\_\_\_\_
- i) \_\_\_\_\_

**Q.-2 Write answer in 3 to 4 sentences. (Any 4 out of 6 )**

**12 Marks**

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_
- f) \_\_\_\_\_

**Q.-3 Answer briefly.**

**(Any 3 out of 5 )**

**12 Marks**

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_

**Q.-4 Write Notes**

**(Any 2 out of 4)**

**12 Marks**

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_

**Q.-5 Write Answer in Detail**

**(Any 1 out of 3 )**

**12 Marks**

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_