

**Rajarshi Shahu
Mahavidyalaya, Latur
(Autonomous)**



**Department of Geography
(UG, PG and Research Centre)**

BoS in Geography

1. Dr. O. V. Shahapurkar - Chairman
2. Dr. A. R. Pathare - Academic Council
Nominee
3. Mr. H. P. Patil - Academic Council
Nominee
4. Dr. N. T. Deshmukh - Expert by VC
5. Mr. R. M. Chavan - Industry Nominee
6. Dr. A. M. Jethé - PG Alumni's
7. Dr. P. D. Pohekar - Other Members
8. Dr. S. J. Phule - Faculty
9. Mr. D. B. Sonkamble - Faculty
10. Mr. V. J. Dalvi - Faculty
11. Mr. K. B. Shinde - Faculty
12. Dr. S. G. Hadule - Faculty

Department of Geography

B. A. Syllabus

CBCS Pattern

B. A. Second Year

(Semester-III)

Rajarshi Sahu Mahavidyalaya, Latur
(Autonomous)

Syllabus

Geography

B.A. Second Year
Revised
(Semester Pattern)
(MCQ + Theory)

w.e.f. June, 2015

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A. I, II and III year

Semester Pattern

Curriculum in Geography

Class	Semester	Course Code	Course Title	Lectures	Marks	Credits
B.A. First Year	I	U-GEO-119	Introduction to Geography	50	50	03
		U-GEO-120	Introduction to Human Geography	50	50	03
		U-GEO-121	Practical Geography	45 (Pra.15)	50	02
	II	U-GEO-218	Principles of Geomorphology	50	50	03
		U-GEO-219	Population Geography	50	50	03
		U-GEO-220	Practical Geography	45 (Pra.15)	50	02
B.A. Second Year	III	U-GEO-318	Principles of Climatology	50	50	03
		U-GEO-319	Economic Geography	50	50	03
		U-GEO-320	Practical Geography	45 (Pra.15)	50	02
	IV	U-GEO-418	Principles of Oceanography	50	50	03
		U-GEO-419	Agricultural Geography	50	50	03
		U-GEO-420	Practical Geography	45 (Pra.15)	50	02
B.A. Third Year	V	U-GEO-518	Environmental Geography	50	50	03
		U-GEO-519	Geography of India: Part-I	50	50	03
		U-GEO-520	Practical Geography	90 (Pra.30)	50	02
	VI	U-GEO-618	Geography of Resources	50	50	03
		U-GEO-619	Geography of India: Part-II	50	50	03
		U-GEO-620	Practical Geography	90 (Pra.30)	50	02

Rajarshi Shahu Mahavidyalaya, Latur

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B.A. Second Year

Semester - III

Course Code	Course Title	Lect. per Week	Lect. per Sem.	Marks		
				Internal	External	Total
U-GEO-318	Principles of Climatology	04	50	20	30	50
U-GEO-319	Economic Geography	04	50	20	30	50
U-GEO-320	Practical Geography - III	03 (Pra.-01) Per Batch	45 (Pra. -15) Per Batch	20	30	50

Semester - IV

Course Code	Course Title	Lect. per Week	Lect. per Sem.	Marks		
				Internal	External	Total
U-GEO-418	Principles of Oceanography	04	50	20	30	50
U-GEO-419	Agricultural Geography	04	50	20	30	50
U-GEO-420	Practical Geography - IV	03 (Pra.-01) Per Batch	45 (Pra. -15) Per Batch	20	30	50

Note:

- Internal marks will be divided as follows:
 - Two tests : 15 Marks
Marks of two tests will be converted into 15
 - Attendance : 05 Marks
- Submission of certify journal and field report is compulsory without which students will not be allowed to appear for practical examination.
- Submission of certified journal is compulsory without which students shall not be allowed to appear for practical examination.

Objectives of the Curriculum:

The basic objectives of the various courses designed in the subject geography are as follows:

1. To create awareness among the students about the subject geography and train them in the subject.
2. To enable the students to face the competitive examinations like MPSC, UPSC etc.
3. To enable the students to face NET/SET examination.
4. To improve the quality of field works, excursions, village or part of city surveys because of which the students can become familiar with different regions.
5. To make a student dynamic by studying innovative concepts and multi-disciplinary approach of the provided curriculum.
6. To develop interest among the students about the geography in which they can make their career.

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.II yr (Semester-III)

Geography

(MCQ + Theory Pattern)

Course Title : **Principles of Climatology**

Course Code : **U-GEO-318**

Paper No.: V

Max. Marks : 50		Credits :03
Total Lectures : 50	Lectures:50	Practices :00

Learning Objectives:

- 1) To Make Student aware about weather and climate phenomena.
- 2) To improve understanding regarding Climatic issues.

Course Outcomes:

- 1) Students are familiar with weather phenomena, dynamics of global animas and generation of climatic information and their application.

Unit-I : **Introduction**

- i) Meaning, Nature and Scope of Climatology.
- ii) Elements of Weather and Climate.

Unit-II : **Atmosphere and Insolation**

- i) **Composition and Structure of the atmosphere.**
- ii) **Insolation and Temperature.**

Unit-III : **Atmospheric Pressure and Winds**

- i) Atmospheric Pressure, Pressure Belts
- ii) Winds-Types of Wind

Reference Books :

- 1) Trewartha , G.T.: An Introduction to Climate , Mc Graw Hill, New York.

2) Critchfield, H: General Climatology, Prentice- Hall, New York.

3) Lal D.S.:Climatology, Sharda Pustak Bhavan, Allahabad.

4) Miller, A.A.: Climatology.

5) «üÖð. ¿Öê™êü «ÃÖ. ™üß. Æü¾ÖÖ'ÖÖ-Ö¿ÖÖÃ¿Ö ¾Ö ÃÖÖ• Ö,ü¾Ö-ÖÖ-Ö,

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7) 'ÖÖ,ü-Öã,êü ×¾ÖšüşËü»Ö- Æü¾ÖÖ'ÖÖ-Ö¿ÖÖÃ¿Ö, Ø-Ö-ÖδûÖ-Öã,êü †Ñ>ü • Óú.

-Ö²»Öß¿ÖÃÖÖ, -ÖÖ• Ö-Öæ,ü.

8) Strahler, A.N. and Strahler, A.H.Modern Physical Geography, John Wiley and Sons, London.

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.II yr (Semester-III)

Geography

(MCQ + Theory Pattern)

Course Title : **Physical Geography of Maharashtra**

Course Code : **U-GEO-319**

Paper No.: VI

Max. Marks : 50

Total Lectures : 50

Lectures:50

Credits :02

Practicals :00

Learning Objectives:

Objectives:

- 1) The students should learn the regional Geographical aspects.
- 2) The students aware about integrated & empirical profile of Maharashtra

I) Maharashtra: Location and Extent

- i) Location, Size and Boundaries.
- ii) Location of Maharashtra in India.
- iii) Administrative Divisions.
- iv) Regional Divisions.

II) Physical Divisions of Maharashtra

- i) Coastal Region.
- ii) The Sahyadri and Hilly Ranges.
- iii) Plateau Region.

III) Climate and Drainage

- i) Nature of Climate in Maharashtra.
- ii) Seasons in Maharashtra.
- iii) Divisions of Rivers According to their directions and Water Divide.
- iv) River Basins in Maharashtra.

IV) Soils and Vegetation.

- i) Factors Affecting on Soil Formation.
- ii) Types of Soils in Maharashtra and Soil Conservation.
- iii) Factors affecting on Natural Vegetation.
- iv) Types of Forests in Maharashtra and Forest Conservation.

Reference Books :

- 1) B. Arunachalam : Maharashtra, A.R. Shethe & Co. Educational Publisher, Bombay.
- 2) b÷Èì. °ÉÖ|ÉÉ'ÉSÉÆpù °ÉÉ®ÆúMÉ : °É½pÉ®úÉ']ÅðÉSÉÉ |ÉÚMÉÉä±É, Ê'ÉtÉ |ÉÉðÉ¶ÉxÉ, xÉÉMÉ{ÉÚ®ú.
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- 4) b÷Èì. |ÉÉðÉ¶É °ÉÉ'ÉÆiÉ : °É½pÉ®úÉ']ÅðÉSÉÉ |ÉÚMÉÉä±É, ;ðb÷Eäð |ÉÉðÉ¶ÉxÉ, EðÉä±½pÉ{ÉÚ®ú.
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Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.II yr (Semester-III)

Geography

(MCQ + Theory Pattern)

Course Title : **Practical Geography**

Course Code : **U-GEO-320**

Paper No.: III

Max. Marks : 50

Total Lectures : 45

Lectures:50

Credits :02

Practical :15

Learning Objectives:

- 1) To make students aware about different climatic graphs and diagrams.

- 2) To make student aware about climatic conditions through weather instruments and daily weather maps.

Course Outcomes:

- 1) Students can draw climatic graphs and diagrams.
- 2) They can handle the weather instruments, and can interpret daily weather maps.

Unit-I : Use of Line & Bar Graph for Representing Geographical Data

- i) Line Graph- Simple & Multiple.
- ii) Bar Graph- Simple & Multiple

Unit-II : Climatic Graphs and Diagrams

- i) Climograph.
- ii) Hythergraph.
- iii) Star Diagram.
- iv) Wind Rose

Unit-III : Introduction of Weather Instruments

- i) Minimum & Max. Thermometer.
- ii) Dry & Wet Bulb Thermometer.
- iii) Rainguage
- iv) Aneroid Barometer.
- v) Wind Vane.
- vi) Cup-Anemometer.

Unit-IV : Study of Indian Daily Weather Reports

- a) Weather Signs & Symbols.
- b) Interpretation of Indian Daily Weather Reports. One Each from Winter, Summer & Rainy Season.

Unit-V: Field Visit and Preparation of Report

Reference Books :

- 1) Mishra R.P. & Ramesh A. Fundamentals of cartography. Mc.Millan Co.H.D.1986.
- 2) Singh R.L. Elements of Practical Geography, Kalyani Publication, H.D.
- 3) Sarkar, A.K. Practical Geography A Systematic Approach orient Longman, Calcutta,1997.

4) Monk house ,F.J. & Wilkinson, H.R.: Maps & Diagrams London, 1994.

5) ;Ö'ÖÖÔ •Öê.Öß. ÖÏÖμÖÖê• Öß• ú ³Öæ• ÖÖê»Ö.

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B. A. Second Year

(Semester-IV)

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.II yr (Semester-IV)

Geography

(MCQ + Theory Pattern)

Course Title : **Principles of Oceanography**

Course Code : **U-GEO-418**

Paper No.: VII

Max. Marks : 50

Credits :02

Total Lectures : 50

Lectures:50

Practical :00

Learning Objectives:

- 1) The component of oceanography similarly deals with the coastal processes and described the vast and diversified resources the oceans hold.

Course Outcomes:

- 1) Students effectively understand the basic concepts, processes, and analytic tools in oceanography. Students expose to a diversity of resources in ocean.

Unit.I: Introduction to Oceanography

- i) Meaning, Nature and Scope of Oceanography
- ii) Significance of the Study of Oceanography

Unit.II: Ocean Floor and Bottom Topography

- i) Nature of Ocean Floor
- ii) Atlantic, Pacific and Indian Ocean

Unit.III: Temperature and Salinity of Oceans

- i) Distribution of temperature
- ii) Distribution of salinity

Unit-IV: Circulation of Oceanic Water

- i) Sea Waves and Tides
- ii) Ocean Currents

Reference Books:

1. Anikouchine, W.A. and Sternberg, R.W.: The World Oceans –An introduction to Oceanography, Englewood Cliffs, N.J. 1973.
2. Grald, S. : General Oceanography – An Introduction, John Wiley and Sons, New York, 1980.
3. Garrison, T. Oceanography, Wadsworth.com, USA 1998.
4. King, C.A.M. Beaches and Coasts, E. Arnold, London, 1972.
5. King, C.A.M. Oceanography for Geographers E. Arnold, London, 1975.
6. >üÖð.¿ÖÖú,ü,üÖ¼Ö ¿Öê™êü:Æü¼ÖÖ'ÖÖ-Ö¿ÖÖĀ¿Ö ¼Ö ĀÖÖ• Ö,ü×¼Ö-ÖÖ-Ö,†×³Ö×•ÖŸÖ
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Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.II yr (Semester-IV)

Geography

(MCQ + Theory Pattern)

Course Title : Human Geography of Maharashtra

Course Code : U-GEO-419

Paper No.: VIII

Max. Marks : 50

Credits :02

Total Lectures : 50

Lectures:50

Practical :00

Objectives:

- 3) The students should learn the regional Geographical aspects.
 - 4) The students aware about integrated & empirical profile of Maharashtra
-

I) Population

- i) Growth, Distribution and Structure of Population.
- ii) Migration of Population.

II) Agriculture

- i) Factors Affecting on Agriculture
- ii) Production and Distribution of Major Crops

III) Industries

- i) Industries
- ii) Industrial Regions

IV) Transportation and Communication

- i) Types of Transportation Modes.
- ii) Types of Communication Modes.

Reference Books :

- 8) B. Arunachalam : Maharashtra, A.R. Shethe & Co. Educational Publisher, Bombay.
- 9) b÷Èì. °ÉÖ!ÉÉ!ÉSEÉÆpù °ÉÉ®ÆúMÉ :´É½pÉ®úÉ!]ÅõÉSEÉ !ÉÚMÉÉä±É, Ê´ÉÉÉ |ÉÉðÉJÉxÉ, xÉÉMÉ{ÉÚ®ú.
- 10) b÷Èì. °ÉÖ®äúJÉ ;Öð±Éä :´É½pÉ®úÉ!]ÅõÉSEÉ !ÉÚMÉÉä±É, Ê´ÉÉÉ æÉÖC°É {É!±ÉÉJÉ°ÉÇ, +Éè®ÆúMÉÉæÉÉnù.

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Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.II yr (Semester-IV)

Geography

(MCQ + Theory Pattern)

Course Title : **Practical Geography**

Course Code : **U-GEO-420**

Paper No.: IV

Max. Marks : 50

Credits :02

Total Lectures : 45

Lectures:00

Practical :15

Learning Objectives:

- 1) To understand the different cartographical methods.
- 2) To study the two and three dimensional diagrams for representation of economic data.

Course Outcomes:

- 1) Students understand the different cartographical methods.
- 2) They aware about the representation of attribute data through two and three dimensional diagrams.

Unit-I : Two Dimensional Located Diagrams

- 1) Wheel Diagram
- 2) Circle Diagram
- 3) Square Diagram

Unit-II : Three Dimensional Located Diagrams

- i) Cube Diagram.
- ii) Sphere Diagram
- iii) Block Piles

Unit-III : Distributional Maps

- i) Dot Map.
- ii) Choropleth Map
- iii) Flow Line Map

Unit-IV : Surveying

Plane Table Survey- Open Traverse

Reference Books :

1. Mishra R.P. & Ramesh A. Fundamentals of cartography. Mc.Millan Co.H.D.1986.
2. Singh R.L. Elements of Practical Geography, Kalyani Publication, H.D.
3. Sarkar, A.K. Practical Geography A Systematic Approach orient Longman, Calcutta,1997.
4. Monk house ,F.J. & Wilkinson, H.R.: Maps & Diagrams London, 1994.

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B. A. Third Year

(Semester-V)

Rajarshi Sahu Mahavidyalaya, Latur
(Autonomous)

Syllabus

Geography

B.A. Third year
(Semester Pattern)
(MCQ + Theory)

w.e.f. June, 2015

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A. I, II and III year

Semester Pattern

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		U-GEO-121	Practical Geography	45 (Pra.15)	50	02
	II	U-GEO-218	Principles of Geomorphology	50	50	03
		U-GEO-219	Population Geography	50	50	03
		U-GEO-220	Practical Geography	45 (Pra.15)	50	02
B.A. Second Year	III	U-GEO-318	Principles of Climatology	50	50	03
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		U-GEO-320	Practical Geography	45 (Pra.15)	50	02
	IV	U-GEO-418	Principles of Oceanography	50	50	03
		U-GEO-419	Agricultural Geography	50	50	03
		U-GEO-420	Practical Geography	45 (Pra.15)	50	02
B.A. Third Year	V	U-GEO-519	Environmental Geography	50	50	03
		U-GEO-520	Geography of India: Part-I	50	50	03
		U-GEO-521	Practical Geography	90 (Pra.30)	50	03
	VI	U-GEO-618	Geography of Resources	50	50	03
		U-GEO-619	Geography of India: Part-II	50	50	03
		U-GEO-620	Practical Geography	90 (Pra.30)	50	03

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A. Third Year

Semester - V

Course Code	Course Title	Lect. per Week	Lect. per Sem.	Marks		
				Internal	External	Total
U-GEO-519	Environmental Geography	04	50	20	30	50
U-GEO-520	Geography of India: Part-I	04	50	20	30	50
U-GEO-521	Practical Geography	03 (Pra.-01) Per Batch	45 (Pra. -15) Per Batch	20	30	50

Semester - VI

Course Code	Course Title	Lect. per Week	Lect. per Sem.	Marks		
				Internal	External	Total
U-GEO-619	Geography of Resources	04	50	20	30	50
U-GEO-620	Geography of India: Part-II	04	50	20	30	50
U-GEO-621	Practical Geography	03 (Pra.-01) Per Batch	45 (Pra. -15) Per Batch	20	30	50

Note:

1) Internal marks will be divided as follows:

i) Two tests : 15 Marks

Marks of two tests will be converted into 15

ii) Attendance : 05 Marks

2) Submission of certify journal and field report is compulsory without which students will not be allowed to appear for practical examination.

3. Submission of certified journal is compulsory without which students shall not be allowed to appear for practical examination.

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The basic objectives of the various courses designed in the subject geography are as follows:

1. To create awareness among the students about the subject geography and train them in the subject.
2. To enable the students to face the competitive examinations like MPSC, UPSC etc.
3. To enable the students to face NET/SET examination.
4. To improve the quality of field works, excursions, village or part of city surveys because of which the students can become familiar with different regions.
5. To make a student dynamic by studying innovative concepts and multi-disciplinary approach of the provided curriculum.
6. To develop interest among the students about the geography in which they can make their career.

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.III yr (Semester-V)

Geography

(MCQ + Theory Pattern)

Course Title : **Environmental Geography**

Course Code : **U-GEO-519**

Paper No.: IX

Max. Marks : 50

Credits :02

Total Lectures : 50

Lectures:50

Practical :00

Objectives:

- 1) To create awareness among the students about the Environment.
- 2) To develop interest among student about environmental problem.

Outcomes:

- 1) Student becomes aware about the environment.
- 2) They familiarize with environmental issues and problems and management of it.

Unit – I: Introduction to Environment Geography

- i) Definitions, Nature and Scope of Environment Geography.
- ii) Environment Geography and its Relationship with other Sciences
- iii) Significance of Study of Environment Geography

Unit – II: Ecosystem

- i) Meaning of Ecosystem.
- ii) Types of Ecosystem.
- iii) Structure of Ecosystem.

Unit – III: Biodiversity

- i) Meaning of Biodiversity
- ii) Degradation of Biodiversity
- iii) Importance of Biodiversity

Unit-IV : Pollution

- i) Causes, Effects and Remedies of Air Pollution.
- ii) Causes, Effects and Remedies of Water Pollution.
- iii) Causes, Effects and Remedies of Sound Pollution.

Suggested Readings

1. Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad.
2. Alexander, D. (1993): Natural Disasters. UCL Press Ltd, London.
3. P.C Sinha ; Introduction to Disaster managements; Anmol Publication Pvt. Ltd., New Delhi.
4. B. Narayan, Disaster Management ; Super Book Distributor, New Delhi.
5. I. Mohan, Environmental Problems in 21st Century, Anmol Publication Pvt, Ltd. New Delhi.
6. Singh R.B. & Mishra S. (1996) Environmental Laws in India ,Issues & Responses , Rawat Publication, New Delhi.

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.III yr (Semester-V)

Geography

(MCQ + Theory Pattern)

Course Title : **Physical Geography of India**

Course Code : **U-GEO-520**

Paper No.: X

Max. Marks : 50

Credits :02

Total Lectures : 50

Lectures:50

Practical :00

Objectives:

- 1) The course is aimed to students should learn the basics about the Inida. E.g. Location, extent, tec.
- 2) The students should aware about physiography, drainage pattern, soil and vegetation in India.

Outcomes:

- 1) Student came to know the comprehensive , integrated and empirical based profile of India
- 2) They understand the geographical position of India and drainage pattern, soil and vegetation diversity.

Unit I : India: Location and Extent

- i) Location and Extent
- ii)India and Neighbouring Countries
- iii)Location of India in North and East Hemisphere
- iv) Administrative Divisions of India
- iv) India – A Land of Diversity and Unity in Diversity

Unit II : Physiographic Divisions of India

- i)The Northern Mountainous Region
- ii)The Northern Indian Plain Region
- iii)The Indian Plateau Region
- iv)The Coastal Region
- v)The Indian Islands

Unit III: Drainage and Climate

- i)Himalayan River System
- ii) Peninsular River System

- iii) Factors Affecting on Climate of India
- iv) Seasons in India
- v) Distribution and Characteristics of Rainfall in India

Unit IV : Natural Vegetation and Soils.

- i)Types of Forests in India
- ii)Forest Conservation
- iii)Factors Affecting on Origin of Soils
- v) Characteristics of Soils
- vi) Types of Soils in India and Soil Conservation

Suggested Readings

1. Chauhan, P.R. and Prasad, M. (2003): Bharat Ka Vrihad Bhugol, Vasundhara Prakashan, Gorakhpur.
2. Farmer, B.H. (1983): An Introduction to South Asia. Methuen, London
3. Gautam, A. (2006): Advanced Geography of India, Sharda Pustak Bhawan, Allahabad
4. Johnson, B.L.e. (1963): Development in South Asia. Penguin Books, Harnondsworth
5. Krishnan, M.S. (J 982): Geology of India and Burma, CAS Publishers and Distributors, Delhi.
6. Khullar, D.R. (2007): India: A Comprehensive Geography, Kalyani Publishers, New Delhi
7. Nag, P. and Gupta, S. S. (1992): Geography of India, Concept Publishing Company, New Delhi.
8. Rao, B.P. (2007): Bharat kee Bhaugolik Sameeksha, Vasundhara Prakashan, Gorakh ur.
9. Sharma, T.e. and Coutinho, O. (2003): Economic and Commercial Geography of India, Vikas Publishing House Private Ltd. New Delhi.
10. Singh, J. (2003): India: A Comprehensive Systematic Geography. Gyanodaya Prakashan, Gorakhpur
11. Singh, J. (200 I): Bharat: Bhougolik Aadhar Avam Ayam, Gyanodaya Prakashan, Gorakhpur.
12. Singh, R.L. (ed.) (1971): India: A Regional Geography. National Geographical Society of India, Varanasi,.
13. Spate, O.H. K., Learnnonth A. T. A. and Fanner, B. H. (1996): India, Pakistan and Sri Lanka. Methuen, London, 7th edition.
14. Sukhwal, B.L. (1987): India: Economic Resource Base and Contemporary Political Patterns. Sterling Publication, New Delhi
15. Tiwari, R.e. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad.
16. Wadia, D. N. (1959): Geology of India. Mac-Millan and Company, London and student edition, Madras.

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.III yr (Semester-V)

Geography

(MCQ + Theory Pattern)

Course Title : **Practical Geography**

Course Code : **U-GEO-521**

Paper No.: V

Max. Marks : 50

Total Lectures : 45

Lectures:50

Credits :03

Practical :15

Objectives:

- 1) To understand the different types of map projections and use of it.
- 2) To know the statistical techniques.
- 3) To understand the importance and use of computer in geography.

Outcomes:

- 1) Students acquired the knowledge of Map projections and its uses.
- 2) Students are able to use statistical techniques in geography and uses of computers.

Unit. I: Projection.

- i) Definition and Classification of Projection.
- ii) Construction, Properties and Uses of Following Projections
 - 1) Zenithal Polar Gnomonic Projections.
 - 2) Zenithal Polar Equal Area Projection.
 - 3) Conical Projection With One Standard Parallel.
 - 4) Bonne's Projection.
 - 5) Cylindrical Equal Area Projection.
 - 6) Marcator's Projection.

Unit. II: Measurement of Central Tendencies.

- i) Mean.
- ii) Median.
- iii) Mode.
(In Simple, Discrete and Continuous Series)

Unit-III: Application of Computer in Geography

- i)Importance of Computer.

ii)Application of Computer in Geography.

iii)Application of Computer in Practical Geography.

Unit.IV: Journal and Viva-Voce

Suggested Readings

1. Sing and Sing: Mapwork and Practical Geography.
2. Singh L. & Dutta P.K: Elements of Practical Geography.
3. Hammod & Mc Gullah: Quantitative Techniques in Geography.
4. Croxton & Cowden:Applied General Statistics.
5. Sarkar.A: Practical Geography
6. Khan Z.A.:Text book of practical Geography.

B. A. Third Year

(Semester-VI)

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.III yr (Semester-VI)

Geography

(MCQ + Theory Pattern)

Course Title : **Geography of Natural Resources**

Course Code : **U-GEO-619**

Paper No.: XI

Max. Marks : 50

Credits :03

Total Lectures : 50

Lectures:50

Practical :00

Objectives:

- 1) To understand the importance of natural resources.
- 2) To understand the use of natural resources in the development.
- 3) To aware about the conservation of natural resources.

Outcomes:

- 1) Our mother earth is the most precious gift of the universe. It is the sustenance of “Nature” that is a key to development of the future of mankind. It is the duty & responsibility of each one of us to protect nature. It is here that understanding of the “Environment” comes into the picture. The degradation of our environment is linked with the development process & the ignorance of people & students about retaining the ecological balance. Indeed. No citizen of the earth can afford to remain aloof from the issues related to the environment .

Unit – I: Introduction

- i) Definition of Natural Resources.
- ii) Nature of Natural Resources.
- iii) Types of Natural Resources.

Unit – II: Conservation & Management of Natural Resources.

- i) Meaning of Conservation.
- ii) Planning for the Conservation of Natural Resources.
- iii) Management of Natural Resources.

Unit – III: Soil Conservation

- i) Types of Soil Erosion.
- ii) Factors Affecting on Soil Erosion Rate.
- iii) Techniques of Soil Conservation.

Unit – IV: Forest Conservation

- i) Importance of Forest Resources.
- ii) Geographical Utility of Forest.
- iii) Techniques of Forest Conservation.

Suggested Readings

1. Brereton, E. 1992 : *Resource Use and Management*, Cambridge U Press, Cambridge:
2. Elliotte, j. A. 1994 : *An Introduction to Sustainable Development: The Developing World*, Routledge, London:
3. Mitchell, B. 1997 : *Resources and Environment Management*, Addison Wesley London Ltd., Harlow
4. Pickering, K. and Owen, L.A. 1997 : *An Introduction to Global Environmental Issues*, 2nd edition, Routledge, London:
5. Johnston, R.J., Taylor, P.J. and Watts, M.J. (editors) : 1995: *Geographies of Global Change: Remapping the World in the Late Twentieth Century*, Blackwell, Oxford: 440p.
6. United Nations Populations Fund 1997 : *India Towards Population and Development Goals*, Oxford University Press, New Delhi:
7. Unwin, T. (editor) 1994: *Atlas of World Development*, John Wiley and Sons Ltd., Chichester:
8. World Bank 1996: *From Plan to Market: World Development Report 1996*, Oxford University Press, Oxford
9. World Resources Institute 1998: *World Resources 1998-99: A Guide to the Global Environment*, Oxford University Press,
10. Zimmerman, E.W, *World Resources & Endustries*.
11. Negi, B.S. (1997) *Geography of Resources*, Rastogi Pub., Meerut.

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

B.A.III yr (Semester-VI)

Geography

(MCQ + Theory Pattern)

Course Title : **Geography of India: Part-II**

Course Code : **U-GEO-620**

Paper No.: XII

Max. Marks : 50

Credits :03

Total Lectures : 50

Lectures:50

Practical :00

Objectives:

- 1) This course will introduce to students about the Human development in India.
- 2) The subject will help to students to get the knowledge and aware about the mineral and energy resources in India.

Outcomes:

- 1) They understood different types of human development in India.
- 2) Students realize about the mineral and energy resources in India.

Unit-I: Population

- i) Factors Affecting on Distribution of Population
- ii) Distribution of Population in India

Unit-II: Minerals and Energy Resources

- i) Mineral Resources-Iron Ore and Manganese
- ii) Energy Resources-Coal and Mineral Oil

Unit-III: Industries

- i) Agro Based Industries- Cotton Textile Industry
- ii) Mineral Based Industries-Iron and Steel Industry

Unit-IV: Transport

- i) Importance of Transport
- ii) Transport Routes-Roads, Railways, Airways and Waterways

Suggested Readings

1. Chauhan, P.R. and Prasad, M. (2003): Bharat Ka Vrihad Bhugol, Vasundhara Prakashan, Gorakhpur.
2. Farmer, B.H. (1983): An Introduction to South Asia. Methuen, London
3. Gautam, A. (2006): Advanced Geography of India, Sharda Pustak Bhawan, Allahabad
4. Johnson, B.L.e. (1963): Development in South Asia. Penguin Books, Harrnondsworth
5. Krishnan, M.S. (J 982): Geology of India and Burma, CAS Publishers and Distributors, Delhi.
6. Khullar, D.R. (2007): India: A Comprehensive Geography, Kalyani Publishers, New Delhi
7. Nag, P. and Gupta, S. S. (1992): Geography of India, Concept Publishing Company, New Delhi.
8. Rao, B.P. (2007): Bharat kee Bhaugolik Sameeksha, Vasundhara Prakashan, Gorakh ur.
9. Sharma, T.e. and Coutinho, O. (2003): Economic and Commercial Geography of India, Vikas Publishing House Private Ltd. New Delhi.
10. Singh, J. (2003): India: A Comprehensive Systematic Geography. Gyanodaya Prakashan, Gorakhpur
11. Singh, J. (200 I): Bharat: Bhougolik Aadhar Avam Ayam, Gyanodaya Prakashan, Gorakhpur.
12. Singh, R.L. (ed.) (1971): India: A Regional Geography. National Geographical Society of India, Varanasi,.
13. Spate, O.H. K., Learnmonth A. T. A. and Fanner, B. H. (1996): India, Pakistan and Sri Lanka. Methuen, London, 7th edition.
14. Sukhwal, B.L. (1987): India: Economic Resource Base and Contemporary Political Patterns. Sterling Publication, New Delhi
15. Tiwari, R.e. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad.
16. Wadia, D. N. (1959): Geology of India. Mac-Millan and Company, London and student edition, Madras.

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B.A.III yr (Semester-VI)

Geography

(MCQ + Theory Pattern)

Course Title : **Practical Geography**

Course Code : **U-GEO-621**

Paper No.: VI

Max. Marks : 50

Credits :03

Total Lectures : 50

Lectures:50

Practical :00

Objectives:

- 1) The Students be supposed to learn use Quantitative Methods in Geographical study.
- 2) The Students should learn the techniques in Land Survey.

Outcomes:

- 1) Student become skilled at use of Quantitative Methods in Geographical study
- 2) They are trained in land survey technique.

Unit.I: Measurement of Deviations.

- i) Quartile Deviation and Its Co-efficient.
 - ii) Mean Deviation and Its Co-efficient.
 - iii) Standard Deviation and Its Co-efficient.
- (In Simple, Discrete and Continuous Series)

Unit-II: Surveying.

- i) Chain and Tape Survey.
 - a)Triangulation Survey.
 - b)Open Traverse.
 - c)Close Traverse.
- ii)Plane Table Survey.
 - a)Radial Survey.
 - b)Open Traverse.
 - c)Close Traverse.

Unit-III: Excursion or Tour Report/Village Survey Report/Part of City or Town Survey Report.

Unit-IV: Journal and Viva-Voce.

Suggested Readings

1. Gregory, S. Statistical Methods and the Geographers. Longman S. London, 1963
2. Khan, Z.A. Text Book of Practical Geography Concept Publishing Co. New Delhi.
3. Lawrence, G.R.P. Cartographic Methods. Methuen, London, 1968.
4. Monkhouse, F.J. & H.R. Wilkinson. Maps and Diagrams. Methuen. London, 1994.
5. Pal, /s. K. Statistics for Geoscientists- Techniques and Approaches. Concept, New Delhi, 1998
6. Sarkar, A.K. Practical Geography- A Systematic Approach. Orient Longman, Calcutta, 1997.
7. Raisz, E. (1962): Principles of Cartography, McGraw Hill, New York.
8. Robinson, A. H., Sale. R. D., Morrison, J. L. and Muehrcke, P. C. (1984): Elements of Cartography. 5th edition, John Wiley and Sons, Inc. New York.
9. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd edition.
10. Singh, R.L. and Singh Raila P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi.
11. D.J.Unwin & J.A. Dawson(1987): Computer Programming for Geographers, Longman,London.
12. Monmonier, M.S.(1982) : Computer Assisted cartography, Prentice Hall.
13. David J. Maguire (1989) : Computers in Geography, Longman scientific & Technical,London.
14. Paul Mather (1993): Computer application in geography John Wiley & Sons, New York U.S.A.
15. Cole & King (1968): Quantitative Geography.
16. Hagget Peter (1990): Geography a modern synthesis Harper international, New York.
17. Hammond B.(1974) : Quantitative techniques in Geography, McCullagh Pclarendon press

