

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon



Choice Based Credit System (CBCS)

Syllabus for T.Y.B. A. (Geography)

(Under the Faculty of Science and Technology)

(Since 2020-2021)

General Structure of T.Y.B.A Syllabus(C.B.C.S)

Semester and credit Points	Courses				
V- Total Credits (28)	MIL 3 (03) DSC 1E (03) DSC 2E (03) DSC 3E (03)	Ability Enhancement Course (English communication) (02)	SEC 3 (02)	DSE 3A (03) DSE 4A (03)	GE1A (03) GE 2A (03)

Semester and credit Points	Courses				
VI- Total Credits (28)	MIL 4 (03) DSC 1F (03) DSC 2F (03) DSC 3F (03)	Ability Enhancement Course (English communication) (02)	SEC 4 (02)	DSE 3B (03) DSE 4B (03)	GE 1 B (03) GE 2B (03)

- AEC - English Communication ही अनिवार्य अभ्यासपत्रिका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विद्यार्थ्याने ही अभ्यासपत्रिका अभ्यासणे अनिवार्य आहे.
- MIL ही अनिवार्य अभ्यासपत्रिका आहे. तृतीय वर्षास प्रवेशित प्रत्येक विद्यार्थ्याने मराठी, हिंदी, संस्कृत, पाली, अर्धमागधी, उर्दू यांपैकी महाविद्यालयात शिकवल्या जाणाऱ्या कोणत्याही एका भाषा विषयाच्या MIL मधील अभ्यासपत्रिकेची निवड करणे अनिवार्य आहे.
- SEC मध्ये महाविद्यालयात उपलब्ध असलेल्या कोणत्याही विषयाच्या कौशल्याधारित अभ्यासपत्रिकांची निवड करणे अनिवार्य आहे.
- GE मध्ये महाविद्यालयात विशेष स्तरावर उपलब्ध कोणत्याही दोन विषयांच्या प्रत्येकी एक अशा एकूण दोन आंतरविद्याशाखीय अभ्यासपत्रिकांची निवडणे अनिवार्य आहे.

Details of CBCS Structure for T.Y.B.A Geography (With Effect from June 2020)

Subject Code	Semester	Title of Subject	CBCS Structure Code	Credit Point	Total Clock Hours
Gg.351 (G-3)	V	Environmental Geography	DSC 1E	03	45
Gg . 361 (G-3)	VI	Population Geography	DSC 1F	03	45
Gg. 352 (S-3)	V	Economic Geography	DSE 3A	03	45
Gg. 362 (S-3)	VI	Political Geography	DSE 3B	03	45
Gg. 353 (S-4)	V	Practical in Human Geography and Geo-statistics	DSE 4A	03	90
Gg. 363 (S-4)	VI	Practical in Physical Geography	DSE 4B	03	90
Gg. 354 (SEC of Geography)	V	Field Technique and Introduction to Project Report	SEC 3	02	30
Gg. 364 (SEC of Geography)	VI	Geographical Information System	SEC 4	02	30
Gg. 355 (GE of Geography)	V	Disaster Risk Reduction	GE 1A	03	45
Gg.365 (GE of Geography)	VI	Sustainability And Development	GE 1B	03	45

Weightages of Marks	
University Assessment	60
College Assessment	40
Total Marks	100

T.Y.B.A. GEOGRAPHY

Equivalence Courses for T. Y. B. A. Geography

Old Syllabus & Courses (With effect from June - 2018)	New Syllabus CBCS Pattern (With effect from June 2020)
SEM. V - G - 3 - Agricultural Geography SEM. VI - G - 3 Industrial Geography	SEM. V - (DSC 1E) Gg. 351 - Environmental Geography
OR	
SEM. V - G - 3 - Population Geography SEM. VI - G- 3 - Political Geography	SEM. VI - (DSC 1F) Gg. 361 - Population Geography
SEM. V - S - 3 - Environmental Geography SEM. VI - S- 3 - Remote Sensing & GIS	SEM. V - (DSE 3A) Gg. 352 - Economic Geography
OR	
SEM. V - S - 3 - Geographical Thoughts SEM. VI - S- 3 - Geography of Resources	SEM. VI - (DSE 3B) Gg. 362 - Political Geography
SEM. V - S 4 - Practical Geography - Weather Maps , Weather Instruments and Elements of Map Reading	SEM. V - (DSE 4A) Gg. 353 - Practical in Human Geography and Geo-Statistics
SEM. VI - S 4 - Practical Geography - Geo- Statistical Methods	SEM. VI - (DSE 4B) Gg. 363 - Practical in Physical Geography
----	SEM. V - (SEC 3) Gg. 354 - Field Techniques and Introduction to Project Report
	SEM. VI - (SEC 4) Gg. 364 - Geographical Information System
	SEM. V - (GE 1A) Gg. 355 - Disaster Risk Reduction
	SEM. - VI (GE 1B) Gg. 365 - Sustainability and Development

Semester V

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 351 (DSC 1E) Environmental Geography

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. To create the environmental awareness amongst the students.
2. To acquaint the students with fundamental concepts of Environmental Geography.
3. To aware the students about the processes and patterns in the natural environment.
4. To acquaint the students with potentials of Environmental Geography.
5. To aware the students about use of resources with prudence.
6. To acquaint the students with different environmental policies.

Units	Topic	Sub Topics	Clock Hours
1	Introduction to Environmental Geography	1.1) Introduction to Environment: a) Meaning and Concept b) Environmental Geography: Definitions, Nature and Scope of Environment Geography 1.2) Environmental Approaches : a) Environmental Deterministic Approach b) Possibility Approach c) Ecological Approach	10
2	Ecosystem and Man and Environment Relationship	2.1) Ecosystem: a) Meaning and Concept b) Structure & Components of Ecosystem: i) Abiotic ii) Biotic c) Functions of Ecosystem :i)Nutrient Cycles a) Carbon Cycle b) Nitrogen Cycle i i)Energy Flow a)Food Chain b) Food web 2.2) Human - Environment Relationship : Human life in- i) Equatorial Region ii)Mountainous Region iii) Coastal Region	12

3	Biodiversity and Environmental Problems	<p>3.1) Biodiversity: Definitions and Types / Levels of Biodiversity</p> <p>a) Genetic Diversity b) Species Diversity</p> <p>c) Ecosystem Diversity</p> <p>3.2) Conservation of Biodiversity:</p> <p>In –situ and Ex-situ conservation of biodiversity</p> <p>3.3) Major Environmental Problems: Causes and adverse effects of the following</p> <p>i) Unseasonal rainfall, ii) Thunderstorms</p> <p>iii) Biodiversity losses iv) Solid waste</p> <p>v) Liquid waste and vi) Air Pollution</p> <p>3.4) Environmental Management regarding Pollution Control- a) Air b) Water</p>	12
4	Environmental Policy	<p>4.1) National Environmental Policy (NEP): Introduction and Objective</p> <p>4.2) Initiatives or Actions Regarding Policy:</p> <p>i) Land Degradation</p> <p>ii) Forest and Wildlife Conservation</p> <p>4.3) Environmental Protection Efforts: - Developing and Developed Countries.</p>	11

Unit No.	Weightage of Marks
1	12
2	18
3	18
4	12
University Assessment	60
College Assessment	40

REFERENCES:

- Benny Josheph (2005): Environmental Studies, Tata McGraw-Hill Publishing Company, New Delhi. Cunningham
- W.P. and Cunningham M. A. (2003): Principles of Environmental Science: Inquiry and Applications, Tata McGraw Hill Publications, New Delhi. Miller,
- G.T. (2002): Living in the Environment, Books Cole Thomas Learning Inc. U.S.A. Nagor,
- A.P. (1996): Biological Diversity and International Environmental Law, A.P.H Publication, New Delhi. Purohit, Shammi and Agrawal (2012):A Text Book Of Environmental Science, Student Edition, Chopasani Road, Jodhpur
- Saxena, H.M.(2004): Environmental Studies, Rawat Publications, Jaipur.
- Santra S.C (2013): Environmental Science, New Central Book Agency (P) Ltd. Kolkata, West Bengal
- Sharma, P.D. (2004): Ecology and Environment, Rastogi Publications, Shivaji Road,Meerut.
- Singh, Savindra (2001): Environmental Geography, Prayag Pustak Bhavan, Alahabad- 110002.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 352 (DSE 3A) Economic Geography

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. To acquaint the students with the knowledge of economic realm in the world.
2. To highlight the different economic activities.
3. To study mineral and power resources in the specific regions of the world.

Unit	Topic	Sub-Topics	Clock Hours
1	Introduction to Economic Geography	1.1 Definitions , Nature and Scope 1.2 Approaches (Regional Approach, Commodity Approach and Principle Approach) 1.3 Concept of Economic Geography	10
2	Economic Activities and Types of Agriculture.	2.1 Meaning of Economic Activities 2.2 Types of Economic Activities- Primary, Secondary, Tertiary and Quaternary activities with Suitable Examples and Characteristics 2.3 Types of Agriculture: Intensive Subsistence and Commercial Dairy Farming and Plantation Agriculture.	12
3	Theories and Models	3.1 Weber's Theory of Industrial Location 3.2 Rostow's Model of Economic Development	10
4	Minerals, Industries and Trade	4.1 Minerals : Distribution and Production of Iron Ore and Coal in USA and India 4.2 Industries : i. Factors of Location of Industries ii. Production and Distribution of Industries like a. Cotton Textile Industries in Japan and India. b. Sugar Industries in India and Special Reference to Maharashtra State.	13

	4.3 Trade : i. Types of Trade : National and International Trade. ii. Factors Affecting the International Trade. iii. India's Foreign Trade	
--	--	--

Unit No.	Weightage of Marks
1	15
2	15
3	15
4	15
University Assessment	60
College Assessment	40

REFERENCES:

English Medium -

1. Economic Geography : John and Darkanwald.
2. Economic Geography : Alexander
3. Economic Geography : Mrs. P.N.Padey, NiraliPrakashan, Pune.
4. Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc. Englewood Cliff, New Jersey
5. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future. Taylor and Francis.
6. Coe N. M., Kelly P. F. and Yeung H. W. 2007: Economic Geography: A Contemporary
7. Combes P., Mayer T. and Thisse J. F. 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
8. DurandL., 1961: Economic Geography, Crowell.
9. Hodder B. W. and Lee R. 1974: Economic Geography, Taylorand Francis,
10. Wheeler J. O., 1998: Economic Geography Wiley.
11. Willington D, E., 2008: Economic Geography, Husband Press.

Marathi Medium -

1. ParyavarannaArthikKriya : Dr. S. R. Chaudhari
2. ArthikBhugol : Prof.S.P.Pathak
3. ArthikBhugol : Prof.Ahirrao, Prof.Alizad, Prof.Dhapte
4. ArthikBhugolDr.V.T.Gharpure, PimpalpurePrakashan, Nagpure.
5. ArthikvaWyapariBhugol : Prof. Karmarkar, Gupte, Paranjape, Nasik

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 353 (DSE 4A) Practical in Human Geography and Geo-Statistics.

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

Total Marks: 60

Credit Points: 03

Total Clock Hours: 90

Objectives:

- To introduce the practical approach of Human Geography.
- To introduce the importance of statistical techniques in Human Geography.
- To introduce some basic research methods to the students.

Unit	Topic	Sub-topics	Clock Hours
I	Practical in Population Geography	1.1 To Calculate the Following Indicators of Population Distribution: 1. Population Growth Rate 2. Sex Ratio 3. Density of Population: • Arithmetic Density 1.2 Measures of Fertility and Mortality: 1. Crude Birth Rate 2. Mortality Rates: Crude Death Rate and Infant Mortality Rate. (Calculate each two examples of each.)	25
II	Practical in Agricultural Geography	2.1 Crop Combination (Weaver's Method) 2.2 Crop Concentration By Bhatia's Method 2.3 Crop Diversification By Bhatia's Method (Calculate two examples of each)	30
III	Introduction To Geo-statistics	3.1 Importance of Statistical Techniques in Geography. 3.2 Sources of Geographical Data : 1) Primary Sources 2) Secondary Sources 3.3 Definitions of Frequency, Frequency Distribution and Cumulative Frequency. 3.4 Measures of Central Tendency: Mean, Median, Mode	10

IV	Data Analysis	4.1 Measures of Dispersion: 1) Mean Deviation 2) Standard Deviation 3) Quartile Deviation. 4.3 Chi-Square Test (X^2 Test)	25
----	---------------	--	-----------

Weightages of Marks	
Units	Marks
1	15
2	10
3	15
4	10
Journal and Viva Voce	10
Total	60
University Assessment	60
College Assessment	40

REFERENCES:

1. Acevedo, M.F. 2012. Data Analysis and Statistics for Geography, Environmental Science and Engineering, CRC Press.
2. Harris, R., Jarvis, C. 2011. Statistics for Geography and Environmental Science, Prentice Hall.
3. Mc Grew Jr., J.C., Lembo Jr., A.J., Monroe, C.B. 2014. An Introduction to Statistical Problem Solving in Geography, 3rd ed, Waveland Press.
4. Pal S. K., 1998. Statistics for Geoscientists: Techniques and Applications, Concept Pub Co.
5. Rogerson, P.A. 2015. Statistical Methods for Geography: A Student's Guide, 4th ed, Sage.
6. Sarkar, A. 2015. Practical Geography: A Systematic Approach, 3rd ed, Orient Blackswan.
7. मुलभूत सांखिकी - प्रा. राम देशमुख. विद्या प्रकाशन, नागपूर
8. सांखिकी भूगोल . डॉ. प्रवीण सप्तर्षी. निराली प्रकाशन, पुणे

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 354(SEC 3) Field Techniques and Introduction to Project Report.

Total Marks: 60

Credit Points: 02

Total Clock Hours: 30

Objectives:

- 1) To introduce the analytical skill of field-work.
- 2) To develop the skill of selection of appropriate technique for field study.
- 3) To enable the student to frame different types of questionnaires to conduct a field study.
- 4) To develop the analytical interpretation and report writing based upon the data collected during a field study.

Sr. No.	Topic	Sub Topics	Clock Hours
1	INTRODUCTION	1.1 Definition of Field and Field work 1.2 Role of Field-work in Research. 1.3 Values and Ethics of Field-work. 1.4 Equipments and Other Things Require for Field-work. 1.5 Identifying the Study Area (Urban, Rural, Physical, Human, Environment.)	06
2	CONCEPTS IN FIELD-WORK.	2.1 Research Questions – Definition. 2.2 Types of Research Questions. (a) Multiple Choice Research Questions. (b) Rank Order Scaling Research Questions. (c) Demographic Research Questions. 2.3 Merits and Demerits of Field Technique. 2.4 Selection of Appropriate Technique. (Observations ,Questionnaires , Interviews) 2.5 Open Ended Questions and Closed Ended Questions. 2.6 Advantages and Disadvantages of Questionnaires. 2.7 Advantages and Disadvantages of Interview.	08
3	SAMPLING AND TECHNIQUES OF SAMPLING	3.1 Definitions and Purpose of Sampling. 3.2 Techniques of Sampling- (a) Random sampling. (b) Stratified Random sampling. (c) Cluster sampling. (d) Systematic sampling.	08
4	DATA ANALYSIS AND REPRESENTATION	4.1 Methods of data analysis and representation. 4.2 Design of the project report (a) Title of project. (b) Abstract. (c) Introduction to topic. (d) Review of literature.	08

		(e) Introduction and selection of study region. (f) Aim and objectives. (g) Methodology. (h) Analysis and subject explanation. (i) Conclusions and suggestions. (j) References / Bibliography.	
--	--	---	--

Sr. No.	Unit No.	Weightage of Marks
1	1	12
2	2	18
3	3	18
4	4	12
University Assessment		60
College Assessment		40

REFERENCES:

1. Creswell J., 1994: Research Design: Qualitative and Quantitative Approaches Sage Publications.
2. Dikshit, R. D., 2003. The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
3. Evans M., 1988: "Participant Observation: The Researcher as Research Tool" in Qualitative Methods in Human Geography, eds. J. Eyles and D. Smith, Polity.
4. Mukherjee, Neela, 1993. Participatory Rural Appraisal: Methodology and Application. Concept Pubs. Co., New Delhi.
5. Mukherjee, Neela, 2002. Participatory Learning and Action: with 100 Field Methods. Concept Pubs. Co., New Delhi
6. Robinson A., 1998: "Thinking Straight and Writing That Way", in Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioural Sciences, eds. by F. Pryczak and R. Bruce Pryczak, Publishing: Los Angeles.
7. Special Issue on "Doing Fieldwork" The Geographical Review 91:1-2 (2001).
8. Stoddard R. H., 1982: Field Techniques and Research Methods in Geography, Kendall/Hunt.
9. Wolcott, H. 1995. The Art of Fieldwork, Alta Mira Press, Walnut Creek, CA.
9. Prof. P. P. Jangle and Prof. A. P. Chaudhari : "Disaster Risk Reduction" Prashant Publication Jalgaon.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 355 (GE 1A) Disaster Risk Reduction.

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. To introduce the concept of disaster risk.
2. To prepare DRM Plans and its implementation.
3. To aware the students about the Disaster Risk Reduction/Mitigation strategies.

Unit	Topic	Sub- Topics	Clock Hours
I	Introduction To Disaster Risk	1.1 Definitions of Disaster and Disaster Risk. Concept of Hazards, Risk, Vulnerability and Importance of Disaster Risk Reduction 1.2 Assessment of Disaster Risk	8
II	Disasters in India	2.1 Causes, Impact, Distribution and Mapping: a) Natural Disaster: Flood, Drought, Earthquake and Cyclone. b) Biological Disaster : Pest and Weeds , Causes of spreading of Corona Virus (Covid -19) and Preventive Measures to Control it c) Human Induced Disasters: Fire and Accidents	12
III	Mitigation of Disasters.	3.1 Preparedness, Mitigation and Prevention – a) Preparedness – <ul style="list-style-type: none">• Awareness generation;• Information management;• Early warning dissemination system; Community participation – <ul style="list-style-type: none">• Task forceformation;• Training and Capacity building;• Preparedness plan preparation;• Simulation. b) Mitigation – <ul style="list-style-type: none">• Knowledge of disaster specific risk;• Analysing the mechanism of disaster damages and possible interventions for minimising the impact of disaster;• Preparation of Mitigation plan. c) Prevention – <ul style="list-style-type: none">• Analysing the nature of a hazard and ways of minimising its intensity;• Preparation of disaster prevention plan	15

IV	Disaster Risk Management (DRM) Plan and Role of Remote Sensing in DRM	<ul style="list-style-type: none"> • Sharing DRM plan with Government Agencies and NGO; • Resource mobilisation; • Monitoring and Evaluation. • Role of Risk transfer and insurance in DRM • Role of Remote Sensing and Artificial Intelligence (AI) in DRM 	10
Total			45

Unit No.	Weightage of Marks
1	10
2	20
3	15
4	15
University Assessment	60
College Assessment	40

Reference Books:

1. आपत्ती व्यवस्थापन : संकल्पना आणि कृती – कर्नल (निवृत्त) प्र. प्र. मराठे, प्रा. व्ही. जे. गोडबोले, डायमंड प्रकाशन, पुणे.
2. आपत्ती व्यवस्थापन– प्रा. ए. पी. चौधरी, प्रा. अर्चना चौधरी, प्रशांत प्रकाशन, जळगाव.
3. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
4. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
5. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
6. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
7. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
8. Singh Jagbir (2007) "Disaster Management Future Challenges and Opportunities", 2007. Publisher- I.K. International Pvt. Ltd. New Delhi, India.

Semester VI

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 361 (DSC 1F) Population Geography.

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives;

1. Understand the components of population change.
 2. Develop skills to use population information in the planning process.
 3. Understand the impact of planning activities on population size, composition, and distribution
 4. Population is an important resource. The development of any nation is depends on human resource. It is a prime deity to acquaint with the human resource of the nation.
 5. To understand the recent problems of population in the world as well as nation.
-

Sr. No.	Topic	Sub Topics	Clock Hours
1	Introduction to Population Geography & Population Data	1.1 Definitions and Meaning of Population Geography 1.2 Nature and Scope of Population Geography. 1.3 a) Need and Types of Population Data b) Sources of Population Data – i) Census ii) National Sample Survey iii) Vital Registration	09
2	Distribution of Population	2.1 Growth of Population in India 1951-2011. 2.2 Distribution of Population – World and India(2011). 2.3 Factors affecting the distribution of Population – a) Physical- i) Topography ii) Climate iii) Water iv) Soil v) Forest b) Socio-Cultural – i) Religion ii) Agriculture iii) Transportation i v) Education v) Government policies	12
3	Composition of Population and Population	3.1 Composition of Population : a) Age Composition (Meaning and Factors affecting age Composition, Age Pyramid) b)Sex Composition in India	12

	Theories	c) Decreasing Sex ratio and its impact d) Literacy in India (1951 to 2011) 3.2 Population Theories : a) Malthusian Theory of Population Growth b) Demographic Transition Model	
4	Population Problems in India & Population Policy	4.1 Problems of Population in India and Its remedial measures a) Over Population b) Brain Drain c) Excess Urbanization 4.2 National Population Policy in India - 2000	12

Sr. No.	Unit No.	Weightage of Marks
1	1	14
2	2	16
3	3	16
4	4	14
University Assessment		60
College Assessment		40

REFERENCES:

- 1) Chandana,R.C. and Janjit S. S.(1980): Introduction to Population Geography ,Kalyani Publishers,New Delhi
- 2) Clarke J.I.(1977):Population Geography and Developing Countries ,Robert Maxwell, MC.
- 3) Masjid Husain (1991) Anmol Publication Ltd. New Delhi
- 4) Mohammand Izhar Hussan : Population Geography. Rawat Publication
- 5) Sawant S.B. and Athawale A.S. (1994) : Population Geography , Mehata Publishing House , Pune
- 6) V.J.Patil And S.V.Dhake : Loksankhya Bhugol (Marathi Medium) , Prashant Publication , Jalgaon
- 7) Ahirro, Alizad and others : Loksankhya Bhugol (Marathi Medium)
- 8) V.T. Gharpure : Loksankhya Bhugol (Marathi Medium) Pimpalpure Publication , Satara.
- 9) T.N. Goplal , Nishikant : LoksankhyaBhugol (Marathi Medium) Prashant Publication, Jalgaon
- 10) A.B.Sawadi : Loksankhya Bhugol (Marathi Medium) The Savadis Mega Geographical Series

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg.362 (DSE 3B) Political Geography

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

- 1) To enable students to acquire knowledge of Political Geography.
- 2) To understand basic concepts of Political Geography.
- 3) To study various theories of Political Geography.
- 4) To understand the frontiers and Boundaries.

Unit No	Topic	Sub Topics	Clock Hours
1	Introduction to Political Geography	1.1 Definitions and Nature and Scope of Political Geography 1.2 Elements of Political Geography	10
2	Evolution of State and Nation	2.1 Concept of State 2.2 Centrifugal and Centripetal Forces in the State 2.3 Factor affecting the State 2.4 Concept of Nation 2.5 Difference between State and Nation	12
3	Geopolitics	3.1 Origin and Concept of Geopolitics 3.2 Mackinder's Heartland Theory 3.3 Spykman Rimland Theory 3.4 Geostrategic importance of Indian Ocean .	11
4	Frontiers and Boundaries	4.1 Definition of Frontiers and Boundaries 4.2 Differences Between Frontiers and Boundaries. 4.2 Classification of International Boundaries 4.3 Boundaries of India ; Characteristics and Problems	12

Unit No.	Weightage of Marks
1	15
2	15
3	15
4	15
University Assessment	60
College Assessment	40

References:

1. Adhikari S., 1997: Political Geography, Rawat Pub. Jaipur.
2. Cohen S.B., 1973: Geography and Politics in divided world. Oxford, New York.
3. Dixit R.D., 1982: Political Geography. Tata McGraw Hill, New Delhi.
4. Dwivedi R.L., 1996: Political Geography. Chaitanya Prakashan , Allhabad.
5. Moor R., 1981: Modern Political Geography. McMillan, London.
6. Pounds N.G., 1972: Political Geography. McGraw Hill, London.
7. Taylor P., 1998: Political Geography, Prentice Hall.
8. राजकीय भूगोल, प्रा.एस.व्ही.ढाके आणि प्रा.व्ही.जे. पाटील (2015)

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 363 (DSE 4B) Practical in Physical Geography
(Work load - 06 Periods Per Week Per Batch of 12 Students)

Total Marks: 60

Credit Points: 03

Total Clock Hours: 90

Objectives:

1. To introduce the students with SOI toposheets and to acquire the knowledge of toposheet Reading / interpretation.
2. To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.

Sr. No.	Unit	Sub Unit	Clock Hours
1	Elements of Topographical Map Reading	1.1 Arrangement of Toposheet On Map of India i) Indexing of Topographical Map 1.2 Marginal Information and Grid References i) Marginal information ii) Grid reference: Four and six figure . 1.3 Conventional Signs and Symbols on Indian Topographical Map	25
2	Interpretation of SOI Toposheets and Drawing of profiles	2.1 Relief Features By Contours a) Conical Hill b) Plateau c) Ridge d) Gorge e) U Shaped Valley f) V Shaped Valley g) Waterfall Slopes : Concave and Convex Slopes , Gentle and Steep Slopes, Terraced Slope. 2.2 Map Interpretation: Interpretation of Topographical Maps (Minimum any two of the following). i) Mountainous/Hilly Region ii) Plateau Region iii) Plain Region 2.3 Profiles:- Drawing of Longitudinal Profile, Cross Profile.	30
3	Interpretation of I.M.D Weather Maps	3.1 Introduction to I.M.D. Weather map 3.2 Signs and Symbols Used in the I. M. D. Weather Map. 3.3 Isobaric Patterns:	25

		i) Cyclone ii) Anti-Cyclone iii) Trough of low pressure iv) Wedge/Ridge v) Col vi) Secondary depression 3.4 Study and Interpretation of Weather Maps of Following Seasons (Minimum any two of the following). i) The Monsoon Season ii) The Winter Season iii) The Summer Season	
4	Study Tour/Village Survey	Preparation of Green Audit Report of Your College or Any Place/Tour Report/ Village Survey and Preparation of Journal	10

Note : The educational tour / Village Survey /visit to any place should be conducted and organized by the direction of Maharashtra Govt. rules and regulations and prior permission of college authority.

Weightages of Marks	
Units	Marks
1	15
2	10
3	15
4	10
Journal and Viva Voce	10
University Assessment	60
College Assessment	40

References:

- 1 Singh. R. L. and Singh R.P.B. (1972): Elements of Practical Geography; Kalyani Publication.
- 2 Khan, MD.Z.A. (1998): Text Book of Practical Geography: Concept Publishing Company.
- 3 Monkhouse F.J. and Wilkinson. H.R. (1971): Maps and Diagrams B.I. publications private limited, New Delhi.
- 4 Ahmed, I. (1994): Practical Geography, Jawahar Publishers and Distributors, New Delhi.
- 5 Sarkar, A. (1997): Practical Geography: A systematic approach, Orient Longman Ltd, Hyderabad.
- 6 Singh, Gopal, (1998): Map Work and Practical Geography.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 364 (SEC 4) Geographical Information System.

Total Marks: 60

Credit Points: 02

Total Clock Hours: 30

Objectives:-

- To introduce the fundamentals and components of Geographic Information System
- To provide details of spatial data structures and input, management and output processes.
- To aware about the application of GIS in various fields.

Unit	Topic	Sub-topics	Clock Hours
1	Introduction to GIS	1.3 Introduction 1.4 Definition 1.5 History of GIS 1.6 Components of GIS <ul style="list-style-type: none"> • Hardware • Software • Modules • Data – Raster & Vector • Users - People 1.7 GIS operations <ul style="list-style-type: none"> • Spatial data input • Attribute data management • Data display • Data exploration • Data analysis • GIS modelling 	06
2	GIS Data Structures	2.1 Geospatial Data Types <ul style="list-style-type: none"> • Spatial Data • Non-Spatial Data 2.2 Raster Data Structure <ul style="list-style-type: none"> • Cells, Pixels, Grid • Cell size, spatial resolution • Bands • Single and multiband structures (BSQ, BIL, BIP) 2.3 Vector Data Structure <ul style="list-style-type: none"> • Point entities • Line entities 	08

		<ul style="list-style-type: none"> • Area entities 2.4 Sources of Raster & Vector data 2.5 Choice between Raster & Vector	
3	GIS Data Analysis	3.1 GIS Data Inputs <ul style="list-style-type: none"> • Keyboard Entry • Manual Digitising • Scanning & Automatic Digitising • GPS Data Inputs 3.2 Geo-Referencing 3.3 Editing 3.4 Output and Query 3.5 Overlays	08
4	Application of GIS	4.1 Land Use / Land Cover Mapping 4.2 Urban Sprawl 4.3 Forest Monitoring 4.4 Disaster Management 4.5 Defence 4.6 Natural Resource Management	08

Units	Marks
1	14
2	16
3	14
4	16
University Assessment	60
College Assessment	40

References:

English Medium

1. Michael N. Demers (2009) :Fundamentals of Geographical Information System, John Wiley & Sons, Inc.
2. Kang-tsung Chang (2008) : Introduction to Geographical Information Systems, McGraw Hill Education (India) Private Limited, Chennai
3. Jensen, J.R. (2000) :Remote Sensing of the Environment: An Earth resource Perspective. Prentice Hall.
4. Joseph George (2003) :Fundamentals of remote sensing. Universities Press
5. Lillesand, T.M. and Kieffer, R.M. (1987) :Remote Sensing and Image Interpretation, John Wiley.
6. Sabbins, F.F. (1985) :Remote sensing Principles and interpretation. W. H. Freeman & company.

Marathi Medium:

1. Dr. ShrikantKarlekar (2007):BhougolicMahitiPranali, Diamond Publication, Pune.
2. Dr. ShrikantKarlekar (2007):Dursavedan, Diamond Publication Pune.
3. Dr. D. S. Suryawanshi (2018):Geo-informatics, Prashant Publications, Jalgaon.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 365 (GE 1B): SUSTAINABILITY AND DEVELOPMENT

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. It brings to attention the Students about the issues which surround Sustainable Development, including its Principles, Processes and Concepts, its Deciding factors, and Potentials it holds.
2. Students will get the information and Importance of the MDGS.
3. Students will be aware about National Environmental Policy.

Sr. No.	Topic	Sub Topics	Clock Hours
1	INTRODUCTION	1.3 Definition of Sustainability 1.4 Components of Sustainability a)Environmental Sustainability b)Economic Sustainability c)Social Sustainability	10
2	MILLENNIUM DEVELOPMENT GOALS	2.1 Meaning of Millennium Development Goals 2.2 Millennium Development Goals – Report 2015 (UN) 2.3 India and the MDGS 2.4 MDGS achievement and failures 2.5 Effectiveness of MDGS	12
3	SUSTAINABLE DEVELOPMENT	3.1 Definition and Nature of Sustainable Development 3.2 Need of Sustainable Development 3.3 Sustainable Development Goals (SDGS 2015) 3.4 Sustainable Development in different Ecosystem a) Agriculture b) Forest 3.5 Role of Individual and Community in Sustainable Development 3.6 Clean Development Mechanism (CDM)	12
4	INCLUSIVE DEVELOPMENT	4.1 Role of Higher Education in Sustainable Development 4.2 Health and Sustainable Development 4.3 Poverty and Diseases and Sustainable Development 4.4 Policies and Global Cooperation for Climate Change Control 4.5 National Environmental Policy 4.6 Rio + 20	11

Unit No.	Weightage of Marks
1	15
2	15
3	15
4	15
University Assessment	60
College Assessment	40

References:

1. Maharashtra State Board of Secondary and Higher Secondary Education, (2012): Environmental and Sustainable Development.
2. Maharashtra State Board of Secondary and Higher Secondary Education, (Standard XII) (2012): Environmental and Sustainable Development.
3. Martin J. Ossewaarde, (2018): Introduction to Sustainable Development, Sage Texts.
4. Kiran G. Desale, (2017): Economic and Social Development, Deepstambh Publication, Jalgaon.
5. Paryavaran Aani Shashwat Vikas (Marathi Medium) Study Circle Publication Pvt. Ltd., Pune
6. Datta Wankhede (2015) : Shashwat Vikas (Marathi Medium) PBD Publication, Pune
7. Prof. A. P. Chaudhari, Prof. Archana Chaudhari, (2013) : Sampurn Paryavaran (Marathi Medium), Prashant Publication, Jalgaon.
8. V.V. Sing, Gaurav Papnai, Vrinda Negi, (2014) : Environmental Agriculture and Sustainable Development, S.K. Book Agency – New Delhi, 110002
9. A. C. Mittal, (2008): Introduction to Sustainable Development, Vista International Publishing House, Delhi – 110053
10. Renu Kathuria, (2012): Sustainable Development, Prism Book (India), Jaipur.