

NEW SYLLABUS

S.Y.B.A. GEOGRAPHY

(WITH EFFECT FROM JUNE 2013)

Sem. III- G2: Human Geography

Sem. IV- G2 : Economic Geography

OR

Sem. III- G2: Geography of Rural Settlements

Sem. IV- G2 : Geography of Urban Settlements

Sem. III- S1: Geography of Tourism

Sem. IV- S1: Geography of Travel Management

OR

Sem. III- S1: Geography of Maharashtra

Sem. IV- S1: Regional Geography of India

Annual Pattern - S2: Practical Geography

Study of Scales, Projections and Surveying
(With the help of Plane Table and G.P.S.)

NORTH MAHARASHTRA UNIVERSITY, JALGAON

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

NEW SYLLABUS

(w.e.f. : June 2013)

Gg 231: G2 – HUMAN GEOGRAPHY

UNIT No.	Topic	Sub topic	Periods
	Introduction to Human Geography	I) Meaning and Definition of Human Geography. II) Nature and Scope of Human Geography. III) The Branches of Human Geography- a) Population Geography b) Cultural Geography c) Social Geography d) Economical Geography e) Political Geography f) Historical Geography IV) Relation between Man & Environment. V) Determinism and Possibilism. VI) Stop and Go determinism.	18
2	The Race of Mankind	I) Meaning and definition of race II) Physical basis of racial groups III) Classification of World Races – a) Caucasoid b) Mongoloid c) Negroid d) Australoid IV) Ethnic groups in India. V) Griffith Taylor's classification of Human Race	17
3	Forms of Adaptation of the Environment	I) Human life in Cold region-Eskimo II) Human life in Tropics: a) Equatorial region- Pigmy b) Desert region –Bushmen III) Human life in Mountainous region.	15
4	Study of Human Tribes in the World & India	(A) Human Tribes in India a) Gonds b) Bhill c) Naga (B) Right to Information Act in India	10

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total Marks	40

Reference books:-

• **Human Geography :-**

1. Human Geography : H. R. Robinson.
2. Human Geography : A. V. Perpillow
3. Human Geography : Emry Jones
4. Text book of Principle of Human Geography : Ahirrao & Alizad

१) मानवी व अर्थिक भूगोल पब्लिकेशन, पुणे	: प्रा. ढाके प्रा. पाटील व प्रा. भारंबे - प्रशांत
२) मानवी भूगोल	: प्रा. करमरकर, श्री. एन. कार्लेकर
३) मानवी भूगोल हाऊस, पुणे	: प्रा. के. डी. खातीव, मेहता पब्लिकेशन
४) मानवी भूगोल	: प्रा. क्षिरसागर, प्रा. भागवत, प्रा. सप्तर्षि
५) मानवी भूगोल कोल्हापूर	: प्रा. सी. टी. पवार, सप्रेम प्रकाशन,
६) मानवी भूगोल कोल्हापूर	: डॉ. प्रकाश सावंत, फडके प्रकाशन,
७) मानवी भूगोल	: डॉ. व्ही. टी. घारपूर, नागपूर प्रकाशन
८) मानवी भूगोल	: डॉ. इन्मराव जगदाळे, दायमंड पब्लिकेशन, पुणे

NORTH MAHARASHTRA UNIVERSITY, JALGAON

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

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 231: G-2:- GEOGRAPHY OF RURAL SETTLEMENTS

Unit No.	Topic	Sub Topic	Periods
01	Introduction to Geography of Rural Settlement	i) Definition ii) Nature and scope of rural Settlement Geography iii) Factors affecting on location of Rural Settlement. a) Physical- Relief ,Climate, Water-Supply and soil. b) Cultural c) Social d) Historical e) Economical	14
02	Shape and Patterns of Rural Settlement	i) Shape -Rectangular, Circular, Linear, Double nucleated, square, polygonal. ii) Pattern-Compact and Dispersed	15
03	Functions of Rural settlement and Service Centers	i) Function -Administrative, Cultural and Economic ii) Service Centers - Rural Service Centers and Rur-urban centers.	15
04	House Types of Rural Settlement in India.	i) Nature of Rural Settlement in India. ii) Characteristics of rural settlement in India. iii) House types in India. iv) Building material in India iv) Rural settlement in Maharashtra	16

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12

4	4	10
	Total Marks	40

References Books:

- i) K.Siddhertha and S.Mukherjee, "Geography Volume- 1" Kisalaya publications Pvt. Limited, New Delhi.
- ii) Majid Husain, "Human Geography" Rawat Publications, Jaipur
- iii) Kumbhar Arjun, "Rural Habitat" Sumeru Prakashan , Dombivali
- iv) Mandal R.B, "Introduction to Rural settlements", Concept publishing co.New Delhi.
- v) Maurya R.D "Settlement system in India- Rural", Chug publication Allahbad.
- vi) Panda P.C "Geomorphology and Rural Settlement in India" Chug publication Allahbad.
- vii) Singh R.Y. "Geography of Settlement" Ravat Publication Jaipur.

मराठी पुस्तके :

- १- डॉ. विठ्ठल धारपुरे - "वस्ती भूगोल" पिंपळापुरे अॅन्ड कंपनी पब्लीशर्स नागपुर.
- २- अहिरराव, वराट, धाकटे, अलिझाड, भोस "आधिवास भूगोल", निराली प्रकाशन पुणे.
- ३- डॉ.सुरेश फुले "वस्ती भूगोल", विदयाबुक पब्लीशर्स औरंगाबाद.

NORTH MAHARASHTRA UNIVERSITY, JALGAON
S.Y.B.A. SEMESTER.- III, NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 232: S1 : GEOGRAPHY OF TOURISM

Course Objectives:

- 1) To develop and communicate basic conceptual framework of Geo -Tourism.
- 2) To motivate for Geo -tourism practices and processes of decision-making.
- 3) To realize its potentials, as against the achieved in the Indian context.
- 4) To understand the various elements of Geo -Tourism
- 5) To evaluate the role of various organizations of Geo- tourism

UNIT No.	Topic	Sub topic	Periods
1	Concepts of Tourism	1. Definitions and historical development of tourism. 2. Tourist-Traveler- Visitor- Excursionist. 3. Types and Forms of Tourism; Tourism system: Nature, 4. Components of tourism and its characteristics.	12
2	Geo -Tourism	1. Definitions, Nature and Scope of Geo-Tourism 2. Approaches of Geo-Tourism 3. Importance of Geo-Tourism 4. Natural and climatic regions of the world. Geo-park	16
3	Motivational factors & organizations of geo-tourism:	1. Natural: Relief, Climate, Vegetation, Water bodies 2. Cultural: Agricultural, Historical, Religious Archeological 3. Organizations: WTO, UNWTO, I T D C, M T D C	15
4	Geo-tourism Impacts	Positive and Negative Impacts of Tourism: 1) Environmental: Land, Water, Noise & Air 2) Economic: Employment, Foreign exchange,	17

		3) Social:	Trading, Increase in revenue. Gambling, Crime, Terrorism, linguistics.	
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total Marks	40

REFERENCE BOOKS:

- Bhatia. -Tourism Development (New Delhi, Sterling)
- Boniface B. and Cooper C. -the Geography of Travel and Tourism, Heinemann Professional Publishing. London, England 1987
- Burkart and Medlik -Tourism, Past, Present and Future Heinemann, ELBS. (1981)
- Cooper, Fletcher, Tourism, Principles and practices, Pitman. Publishing ,1993
- Dixit, M. Tourism Geography and Trends, Royal Publication
- Hall, CM and Page, SJ. - The Geography of Tourism and Recreation, Rutledge
- International Atlas, Penguin Publication and DK Publication
- Kaul: Dynamics of Tourism (New Delhi, Sterling)
- Law B. C. (ed) - Mountain and Rivers of India Calcutta, 1968.
- Mill and Morrison – The Tourism system an Introductory Text , Prentice Hall, 1992
- National Atlas of India – Government of India Publication. Additional Reference
- P.S. Gill, Dynamics of Tourism (4 Vols) Anmol Publication. New Delhi,
- P.C. Sinha, -Tourism Evolution Scope Nature & Organization. Anmol Publication. New Delhi,
- Robinson H.A.A. -Geography of Tourism, MacDonal and Evans, London.
- R. M. Desai – Strategy of food and agriculture – Bombay 1988
- Singh R. L. – Regional Geography of India, 1985
- Seth: Tourism Management (New Delhi, Sterling) Sustainable Tourism Development, Guide for Local Planners by WTO.

Marathi Medium Books:

- Bhagwat & Joshi- Payratan Bhugol,
- Bhole & Bhatewal- Payratan Bhugol, Prashant Prakashan, Jalgaon
- Gharpure V.T.- Payrtan Bhugol, Vidhya Prakashan, Nagpur
- Khatib K.A-. Payrtan Bhugol,
- Nagtode & Pardhi D.A- Payrtan Bhugol, pimpalapur Prakashan , Nagpur
- Shinde S.B. - Payrtan Bhugol, Fadake Prakashan, Kolhapur.
- Suryawnsi D.S.- Payrtan Bhugol, Pritam Prakashan, Jalgaon

**NORTH MAHARASHTRA UNIVERSITY, JALGAON
S.Y.B.A. SEMESTER.- III**

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 232: S-1 – GEOGRAPHY OF MAHARASHTRA

UNIT No.	Topic	Sub topic	Periods
1	Geographical Personality	<ol style="list-style-type: none"> 1. Location 2. Site, Size, Shape 3. Area 4. Administrative Division 	06
2	Physical Setting Of Maharashtra	<ol style="list-style-type: none"> A) Physical Division of Maharashtra <ol style="list-style-type: none"> 1. Kokan Region 2. Sahyadri Plateau 3. Maharashtra Plateau B) Drainage <ol style="list-style-type: none"> 1. Rivers in Kokan Region 2. Rivers in Plateau Region (Tapi-Purna Valley, Godavari Valley, Krishna basin, Pranhita Valley) 	18
3	Climate	<ol style="list-style-type: none"> 1. Characteristics of Climate 2. Factors affecting Climate 3. Seasons: 4. Distribution of Rainfall & its Characteristics 5. Climate Regions of Maharashtra 	18
4	Socio-Economic Factors in Maharashtra	<ol style="list-style-type: none"> (A) Population <ol style="list-style-type: none"> 1. Factor affecting the distribution of Population in Maharashtra 2. Population Distribution 3. Urbanization in Maharashtra (B) Agriculture <ol style="list-style-type: none"> 1. Characteristics of Agriculture 2. Major crops – Rice, Wheat, Cotton, Sugarcane. 3. Horticulture in North Maharashtra – Banana, Pomegranate 4. Agriculture problems & prospects (C) Power Resources <ol style="list-style-type: none"> 1. Conservation of conventional energy 2. Non-conventional energy in Dhule and 	18

		Nandurbar Districts a. Wind energy b. Solar energy	
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total Marks	40

Reference Book (English Medium)

- 1: Geography of Maharashtra : C.D. Deshpande,
 - 2: Maharashtra in Maps : K. R. Dikshit
 - 3: Maharashtra : Prof. Sawadi and Keche
 - 4: Economy of Maharashtra : S.H. Deshpande
 - 5: The economy of Maharashtra : U.G. Sahastrabudh
 - 6: Geography of Maharashtra : Jaymala Diddee, S.R. Jog, V.S. Kale, V.S. Datye
- Email: info@rawatbooks.com, www.rawatbooks.com

Marathi Medium Books

- 7: Maharashtra : Santosh Dastane
- 8: Maharashtracha Bhugol : Dr. Subhashchandra Sarang, Vidya Prakashan, Nagpur
- 9: Maharashtracha Bhugol : Pandurang Keche
- 10: Maharashtracha Bhugol : Dr. Vijaykumar Magar
- 11: Prakrutik Bhugol va Maharashtrache : Dr. S.R.Chaudhari & Dr. M.B.Chavan
Prakrutik Paryawaran

12: Manavi Bhugol Va Maharashtrache : Dr. S.R.Chaudhari & Dr. M.B.Chavan
Manavi Paryavaran

13: Maharashtracha Bhugol : Dr. Prakash Sawant

Email: customersupport@phadkebook.com www.phadkebook.com

14: Maharashtra 2008 : Dastane Ramchandra & Co. Pune

Email: santoshdastane@vsn.net

NORTH MAHARASHTRA UNIVERSITY, JALGAON

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

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 241 : G2 – ECONOMIC GEOGRAPHY

Aims & objectives to the study of economic geography:

1. To acquaint with the knowledge of economic realm in the world as well as in India
2. To study the Economic Geography as a major branch of human geography
3. To highlight the different economic activities observed in the world
4. To study mineral and power resources in the specific regions of the world.
5. To explain the trade and transport activities of the world
6. To study theory and models in economic geography

Unit	Units	Sub-units	Periods
1.	Nature and scope of Economic Geography	i) Definitions -Stated by G.D.Chisholm, Robinson, Hettner, Huntington, Prof. Smith & others ii) Nature of Economic Geography- Interdisciplinary , Dynamic, iii) Scope of Economic Geography-Vast and extensive, distribution and exploitation of natural resources and manmade resources, economic activities, iv) Approaches to the study of economic geography-Regional Approach, Commodity Approach and Principle Approach	14

2.	Theories and Models	<ul style="list-style-type: none"> i) Meaning of economic activities ii) Types of economic activities- Primary, Secondary, Tertiary and Quaternary activities with suitable Examples and their characteristics iii) Weber's Theory of Industrial Location v) Rostov's Model of Economic Development 	20
3.	Mineral and Power Resources	<ul style="list-style-type: none"> i) Distribution and production of Iron-ore and coal in USA & India. ii) Distribution and importance of thermal, hydel, solar, wind power resources (Special reference to Maharashtra State) 	12
4.	Industries and Trade	<ul style="list-style-type: none"> i) Factors of location of industries ii) Production and distribution of following Industries <ul style="list-style-type: none"> a. Engineering Industry. Japan, India and U.K. b. Cotton Textile Industry Japan, India c. Sugar Industry-India and special reference to Maharashtra State. d. Information Technology Industry U.S.A. and India. iii) Trade : <ul style="list-style-type: none"> a. Factors affecting the international trade. b. India's foreign trade. 	14
Total Periods			60

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
Total Marks		40

Reference Books

1. Economic Geography : John and Darkanwald.
2. Economic Geography : Alexander
3. Economic Geography : Mrs. P.N. Padey, Nirali Prakashan, Pune. ,First Edition : Nov 1994
4. Paryavaran va Arthik Kriya : Dr.S.R.Chaudhari
5. Arthik Bhugol : Prof.S.P.Pathak
6. Arthik Bhugol : Prof.Ahirrao, Prof.Alizad, Prof.Dhapte
7. Arthik Bhugol Dr.V.T.Gharpure, Pimpalpure Prakashan, Nagpure.
8. Arthik va Wyapari Bhugol : Prof.Karmarkar, Gupte, Paranjape

NORTH MAHARASHTRA UNIVERSITY, JALGAON

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

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 241 : G-2:- Geography of Urban Settlements

Unit	Topic	Sub Topic	Periods
01	Introduction to Geography of Urban Settlement	i) Definition ii) Nature and scope of Urban Settlement Geography iii) Characteristics of Urban Settlement	10
02	Urbanization	i) Definition ii) Factors affecting on Urbanization iii)Problems of Urbanization iv) Urbanization in India v) Types of Urban Settlement- Urban Hamlet, Urban Village, Town, City, Metropolis, Conurbation, Megalopolis	18
03	Pattern and Function of Urban Settlement	i) Pattern – Linear, Square, Radial, Circular, Checker-board, Fragmented, Bee-hive. ii) Function – Industrial, Administrative, Political and Cultural	14

04	Morphology of Urban Settlement	i) Theories of Urban development a) Concentric Zone Theory b) The Sector Theory c) The Multiple Nuclei Theory ii) Morphological Characteristics of Indian Cities a) Mumbai b) Chandigarh c) Chennai	18
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total	40

References:

- i) K.Siddhertha and S.Mukherjee, "Geography Volume- 1" Kisalaya publications Pvt. Limited, New Delhi.
- ii) Majid Husain, "Human Geography" Rawat Publications, Jaipur
- iii) Majid Husain, "Urban Geography" Rawat Publications, Jaipur

मराठी पुस्तके :

- १- डॉ. विठ्ठल धारपुरे - "वस्ती भूगोल" पिंपळापुरे अँड कंपनी पब्लिशर्स नागपुर.
- २- अहिरराव, वराट, धाकटे, अलिझाड, भोस "आधिवास भूगोल", निराली प्रकाशन पुणे.
- ३- डॉ.सुरेश फुले "वस्ती भूगोल", विद्याबुक पब्लिशर्स औरंगाबाद.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

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

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 242: S 1 – GEOGRAPHY OF TRAVEL MANAGEMENT

Unit No.	Topic	Sub Topic	Periods
I	Role of Accommodation	1. Need of different types of Accommodation 2. Types of Accommodation 3. Hotels, Types of Hotels. 4. Motels, 5. Dharmashalas, 6. Tourist Homes, 7. Youth Hostels, 8. Rail-Yatri-Bhavans, 9. House boats, 10 Govt. Accommodations, 11 Private Accommodations	16
II	Travel Agencies	1. Definition and History of Travel Agency. 2. Functions of Travel Agencies.	06
III	Tourism Marketing	1. Concept of Marketing : a. Tourism product- b. Attraction and facilities, c. Accessibility, marketing, d. characteristics. 2. Types of Tourism Marketing a. Vocational Tourism, Business b. Tourism, common interest tourism. 3. Function of Tourism Marketing a. Marketing Research, b. Advertisement, Sales supports, c. Public relations, d. Tourism Publications	18
IV	Development and Planning	(A) Tourism Planning: (i) Tourism Planning in Developed and developing countries. (ii) Components of tourism Planning: a) Programme Implementation. b) Evaluation of national tourism attraction.	20

		<p>c) Infrastructural facilities. d) Model of tourism Planning. (B) Tourism Development: a) Development of tourism in India and Maharashtra. b) Tourism Policies of India and Maharashtra. c) Case study of following Tourist centers 1.Ajantha & Ellora 2.Tourism in Konkan 3.Temples,Churches & Beaches in Goa. 4.Major cities in Rajasthan : Jaipur, Jaismar, Ajmer, Pushkar etc.</p>	
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	08
3	3	10
4	4	14
	Total	40

Reference Books

1. The Geography of International Tourism : Ian M. Matley scientific publishers
Anaucla rood P.Box-91. Jodhpur.
2. Tourism Development Principles and practice: A.K.Bhatia Sterling publishers, Pvt.Ltd.
L10, Green park extension New Delhi.
3. Tourism in the 21st century. : Editor – G.K.Batra, Anmol publication pvt.ltd.
Ansari road Daryagunj – Delhi H..Robinson.
4. Geographer Tourism : H.Robinson

Marathi Medium

5. Paryatan Bhugol : Dr.S.B.Shinde, Phadke Prakashan, Kolhapur

6. Paryatan Bhugol : A.V.Bhagavat, Murlidhar Prakashan, Pune.
7. Paryatan Bhugol : K.A.Khatib, Ajab Pustakalaya, Kolhapur.
8. Paryavaran & Arthik Kriya : Prof.Dr.Shankar G. Chaudhari, Himalaya Publication
House, Mumbai
9. Chala Safarila : Vasanti Houses
- 10.Maharashtracha Bhugol : Dr.Pandurang Keche.
- 11.Maharashtracha Bhugol : K.A.Khatib
- 12.Geography of Tourism : Dr.D.S.Suryawanshi, Pritam Publisher, Jalgaon

NORTH MAHARASHTRA UNIVERSITY, JALGAON

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

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 242 : S1 : REGIONAL GEOGRAPHY OF INDIA

UNIT No.	Topic	Sub topic	Periods
1	Introduction/ Geographical personality	A) Location : Site and Situation B) Adjacent countries: Economic and Political Relationship. C) Administrative Divisions: D) State wise Geographical Area	06
2	Physioigraphy	A) Physiographic divisions of India B) Relief features of: I) Himalaya II) Northern Plain (Gangetic Plane) III) Peninsular Plateau: a) Vindhyan Mountain b) Satpura Upland c) Deccan Plateau	18

		<p>d) Western Ghat IV) Coastal Plain and islands C) Drainage: i) Himalayan Drainage System ii) Peninsular Drainage System</p>	
3	Climate, Soil and Natural Vegetation	<p>Climate: A) Climatic Regions of India B) Factors Affecting Climate C) Monsoon : i) Characteristics of Monsoon ii) Branches: Bay of Bengal and Arabian Sea iii) South West and North East and Retreating Monsoon D) Distribution of Rainfall Soil: a) Major soil types b) Soil erosion and conservation. Natural Vegetation: a) Major types of vegetation b) Distribution of vegetation c) Economic importance of forest</p>	18
4	Population and Industries	<p>Population: A) Distribution of Population B) Density of Population C) Factors Affecting Distribution of Population D) State wise Capital Centers and Metropolitan Centers. Industries: A) Industrial Zones in India B) Development of Industries and Government Policy</p>	18

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total	40

Reference :

- 1) Bharat –Santosh Dastane
- 2) Bharat Ek Pahani. Santosh Sastane,Dastane Ramchandra ani company.
- 3) Bhugol- study circle publication.
- 4) Geography of India by Majid Husen, Tata McGraw Hill pub.
- 5) Geography of India by Nag P. and S. Sengupta
- 6) India : A regional interpretation by C.D. Deshpande.



NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. ANNUAL PATTERN

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

**Gg 203: Practical : S-2 : STUDY OF SCALE, PROJECTIONS AND
SURVEYING WITH THE HELP OF PLANE TABLE AND GPS**

[Work load – 12 Students per batch and 6 periods per week]

UNIT No.	Topic	Sub topic	Periods
1	SCALES	1.1: Definition and Significance Of Scale	24

		<p>A. Methods of representing scales i. Verbal Scale ii. Numerical Scale iii. Graphical Scale B. Types of scales: i. Unit equivalent Scale ii. Dimensionless Ratio iii. Dimensionless Representative Fraction 1.2 :Conversion of scales: British and metric system 1.3 Construction of following scale [only metric system] A. Simple Graphical scale B. Time and Distance scale</p>	
2	PROJECTIONS	<p>2.1: Definition of Projection: a. Classification of Projection i. Perspective ii. Non-Perspective 2.2 : Construction, Properties and uses of Projection [Construction by graphical method only] a. Zenithal Projections i. Zenithal Polar Gnomonic Projection. ii. Zenithal Polar Stereographic Projection iii. Zenithal Polar Orthographic Projection b. Conical Projections i. Conical Projection with one standard Parallel ii. Conical Projection with two standard Parallel iii: .Bonne’s Projection c. Cylindrical Projection i. Cylindrical Equal Area Projection ii. Cylindrical Equi -distance Projection iii. Mercator’s projection. 2.3: Choice of projections : Choice of Projections for different purposes and regions</p>	36
3	PLANE TABLE SURVEY	<p>5.1: Definition of Surveying 5.2: Types of surveying i. Geodetic survey ii. Plane survey 5.3: Field work: Plane Table survey- i: Intersection Method ii: Close Traverse Method iii: Survey of area or Plot or college campus iv: Preparation of map or layout of surveyed area v: measurement of surveyed area as per the govt. survey record</p>	30

4	GPS SURVEY	4.1. Introduction to GPS, Development, Applications, 4.2. Application of GPS in the survey: i) Linear Survey of Road ii) Close survey of Plot or Ground iii) Reading of Lat-Long and Elevation and Distance of surveyed points 4.3. Preparation of Layout on graph paper (With Scale) 4.4. Field survey Report or Excursion	18
	Unit 5 FIELD REPORT	Visit to a place of Geographical interest or Census survey of village or Socio- economic survey. Students should submit a field report at the time of examination.	12

Annual: Total Period 120

Pattern of Question paper

Unit	Chapter	Types of questions	Marks
1	Scale	Sub unit- 1.1 & 1.2: Objective, Short answering question or Calculation	04
		Sub unit- 1.3: Drawing of scale	06
2	Projections	Sub unit- 2.1: Objective, Short answering question	05
		Sub unit- 2.3: Drawing of Projection	15
3	Plane Table Survey	Sub unit- 3.1 & 3.2: Objective, Short answering question	05
		Sub unit- 3.3: Field survey with the help of plane table, preparation of layout and measurement of area.	15
4	GPS Survey	Sub unit- 4.1, 4.2 & 4.3: Objective, Short answering question or Calculation & Preparation of layout	10
		Sub unit- Field survey Report or Excursion	10
	Journal	Assessment of Journal & Viva Voce	10

Reference Books

1. Elements of practical Geography : Singh & Datta.
2. Map Work and practical Geography : Gopalsing
3. Map Work and Practical : R.L.Singh abd L.R.Singh.
4. Fundamental of cartography : R.P.Mishra and A. Romesh
5. Surveying and leveling : Konetkar and Kulkarni
6. Remote sensing : Dr.Karlekar

7.Remote Sensing and Geographical Information System : A.M.Chandra,S.K.Ghosh.,Narosa
Publishing House Mumbai, New Delhi.

Marathi Medium

7. Pratyakshik Bhugol : Dr.Arjun Kumbhar
8. Sugam Nakasha Vachan : Prof.Date
9. Sulabh Mojanishastra : Prof.Kale, Prof.Shah
- 10.Sarvekshan & Hava Sthitidarshak : Prof.Baviskar, Patil, Shevale
11. Pratyakshik Bhugol : Prof.R.U.Shimpi
12. Pratyakshik Bhugol : Dr.Ahirrao, Prof.Karanjkhele.
- 13.Bhougholik Mahiti Pranali : Dr.S.N.Karlekar

T.Y.B.A. Geography
New Syllabus W.E.F June 2014

Select any one group of courses mentioned below

General Level

SEM. V – G3 : Agricultural Geography
SEM. VI – G3: Industrial Geography

OR

SEM. V – G3: Population Geography
SEM.VI –G3: Political Geography

Special Level

SEM. V – S3 : Environmental Geography
SEM. VI – S3 : Remote Sensing & GIS

OR

SEM. V – S3 : Geographical Thoughts
SEM. VI – S3 : Geography of Resources

**S-4:Annual Practical-
Interpretation of Toposheet, Weather
Reports, Cartographic Techniques & Geo-
Statistical Methods.**

JOB OPPORTUNITY FOR TYBA GEOGRAPHY STUDENTS

Urban Planner/Community Development

Geography is a natural tie-in with urban or city planning. City planners work on zoning, land use, and new developments, from a gas station renovation to the development of whole new sections of urban area. You'll work with individual property owners, developers, and other officials. If you're interested in this area, be sure to take urban geography and urban planning classes. An internship with a city planning agency is essential experience for this type of work.

Cartographer

For those with cartography course backgrounds may enjoy work as a cartographer. The news media, book publishers, atlas publishers, government agencies and others are looking for cartographers to help produce maps. This would likely require relocation.

GIS Specialist

City governments, county agencies, and other government agencies and private groups are often in need of experienced GIS professionals. Coursework and internships in GIS are especially important. Computer programming or engineering skills are very helpful in this arena - the more about computers and languages you know, the better off you are.

Climatologist

Agencies like the National Weather Service, news media, the Weather Channel, and other government entities occasionally need climatologist. Admittedly, these jobs usually go to those with meteorology degrees, a geographer with experience and vast coursework in meteorology and climatology would definitely be an asset.

Transportation management

Like urban and city planning, there are opportunities in local government but regional transit authorities or shipping, logistics, and transportation companies

look kindly to someone with transportation geography in their background and good computer and analytical skills.

Environmental Management

A plethora of environmental assessment, cleanup, and management companies exist throughout the world today. A geographer brings excellent skills for project management and the development of reports like environmental impact reports. It's often a wide-open field with tremendous growth opportunities.

Writer/Researcher

Undoubtedly during your college years you've spent time developing your writing skills and certainly as a geography major you know how to research! How about a career as a writer - you could be a science writer or a travel writer for a magazine or newspaper. The About.com [Freelance Writing](http://geography.about.com/od/careersingeography/a/jobsgeography.htm) site provides information to help you get started.

Reference:

<http://geography.about.com/od/careersingeography/a/jobsgeography.htm>

Data Analyst - new

ASDA [879 reviews](#) – Leeds

This is a fantastic entry-level role for a **geography** or business-related **graduate** with a keen interest in GIS/spatial data and a positive attitude towards...

LLPG and GIS Officer - new

Lancaster City Council [2 reviews](#) – Lancashire

This role may also suit a recent **geography graduate** with exposure to GIS. The hours of work will be 18.5 per week, on hours and days to be agreed with your line

Equivalent Courses FOR T.Y.B.A Geography Students

T. Y .B .A GEOGRAPHY (Old Courses) (W. e. f. June 2009)	New Syllabus of T.Y.B.A Geography W.E.F June 2014
Semester V	Semester V
G 3 : Population Geography (V Sem) OR G 3 : Geography of Health (V Sem)	G3 : Agricultural Geography OR G3: Population Geography
S 3 : Geography of Disaster Management OR S 3 : Monsoon Asia	S3 : Environmental Geography OR S3 : Geographical Thoughts
Semester VI	Semester VI
G 3 : Population Geography (VI Sem) OR G 3 : Geography of Health (VI Sem)	G3: Industrial Geography OR G3: Political Geography
S 3 : Geography of Disaster Management (VI Sem) OR S 3 : Monsoon Asia (VI Sem)	S3 : Remote Sensing & GIS OR S3 : Geography of Resources
S 4 : Practical Geography Weather Maps and Weather Instrument, Elements of Map Reading, G.I.S and Aerial Photographs, Statistical Methods, Excursion	S4 :Practical: Interpretation of Toposheet, Weather Reports, Cartographic Techniques & Geo Statistical Methods

North Maharashtra University, Jalgaon

New Syllabus –w.e.f. June 2014

T.Y.B.A SEMESTER – V

G3: AGRICULTURAL GEOGRAPHY

Objectives:

- To acquaint the students with fundamental aspects of agricultural geography
- To evaluate impact factors on agricultural activities in different parts of the world.
- To ascertain the spatial concentration of agriculture phenomena.
- To study the techniques for the delimitation of agricultural regions.
- To aware the student about the problems of agriculture and suggest suitable strategies to enhance agricultural productivity.
- To acquire the knowledge of contributing aspects in the development of Indian agriculture.

Unit	Topic	Sub-Topic	Periods
1	Introduction to Agricultural Geography	A) Definition, nature, scope, and significance of agricultural geography B) Approaches to the study of agricultural geography i) Environmental Approach ii) Regional Approach iii) Commodity Approach iv) Behavioral Approach	08
2	Impact of geographical factors on agriculture	A) Physical factors: i) Physiography, slope, altitude. ii) Climate-temperature, sunshine, frost, moisture, drought, snow, winds, non-seasonal precipitation. iii) Soils B) Socio-economic factors: Size of holding and fragmentation of fields, labour, capital, mechanizations, transport facilities, marketing, government policy.	12
3	Types of	A) Subsistence and Commercial agriculture B) Types of agriculture- Study of the	16

	Agriculture	<p>following types of agriculture in respect of areas, their salient features and problems:</p> <ul style="list-style-type: none"> i) Shifting cultivation ii) Intensive subsistence farming iii) Organic farming iv) Plantation agriculture <p>C) Indian agriculture : Problems and Remedies</p>	
4	Agricultural Regionalization	<p>A) Agricultural region-meaning and concept</p> <p>B) Techniques for the delimitation of agricultural regions</p> <ul style="list-style-type: none"> i) Empirical techniques ii) Single element techniques iii) Multi-element (statistical) techniques iv) Quantitative and qualitative techniques <p>C) Agricultural regions of India-developed by Randhava M.S.</p>	12
5	Agricultural Development	<p>A) Agricultural development –meaning and definition</p> <p>B) Contribution to Indian Agricultural development of the following aspects:</p> <ul style="list-style-type: none"> i) Green revolution-meaning and its impact on Indian Agriculture ii) White revolution iii) Yellow revolution iv) Blue revolution v) Tissue culture vi) Green houses vii) Modern irrigation systems- <ul style="list-style-type: none"> a) Sprinkler irrigation b) Drip irrigation <p>C) Sustainable Agricultural Development</p>	12

Reference Books:

- 1) Symons, Leslie (1970)- Agricultural Geography, G. Belt and sons ltd, London.
- 2) Morgon. W. B. & S.C. Monton (1971)- Agricultural Geography Methuen, London

- 3) Randhawa, M. S. (1980)-An History of Agricultural in India Vols. I,II,III,IV ICAR, New Delhi.
- 4) Singh. J. and Dhillon S.S. (1994)- Agricultural Geography, Tata McGraw Hill, Publishing Co.Ltd.
- 5) Majid Husain (2010)Systematic Agricultural Geography, Rawat Publications Jaipur.

Marathi Medium Books:

- 1) Dr.Subhashchandra Sarang (1999)- “Bhartacha Bhugol” , Vidya Prakashan, Nagpir.
- 2) Prof. Dhake, Patil and Bharambe (2003)- “ Krushi Bhugol” Prashant Publication, Jalgaon
- 3) Dr. Surekha Pandit –Bapat(2004)- “ Bhartacha Bhougolik Abhyas” Shree Sainath Prakashn, Nagpur.

Weightage of Marks

Topic No	Marks
1	10
2	10
3	10
4	10
5	10
Total	50 (40+10 Int.)

New Syllabus of T.Y.B.A. Geography

SEMISTER - VI

G3: INDUSTRIAL GEOGRAPHY

(With effect from June 2014)

Objectives:

- 1, To introduce the nature, development and significance of manufacturing and its links with the world economy.
- 2, To understand the location of major manufacturing activities with the support of various industrial location theories and models.
- 3, To discuss problems and impact of manufacturing industries with respect to relocation, environmental pollution and occupational health and industrial hazards.

Unit	Unit	Sub Unit	Periods
1	Introduction to Industrial Geography	1. Definition 2. Nature and Scope of Industrial Geography 3. Development in pre-independence period 4. Recent development of industries in India	08
2	Location of Industries and World Distribution of Selected Industries	1. Factors affecting location of industries, 2. World distribution of major industries- Iron & Steel, Ship building, Automobile, Chemical and Pharmaceutical, Cotton textile & IT Industries.	14
3	Industrial Location Theories	1. Alfred Weber 2. Least cost theory 3. Critical review and Application of Industrial Location Theories.	12
4	Industrial Regions	1. Major Manufacturing regions of India, China, and USA 2. Industrial Regionalization 3. Problems of agricultural and Industrial unrest 4. Issues related to industries and SEZ	12
5	Impact of Industries	1. Environmental degradation caused by manufacturing industries 2. Industrial hazards and occupational health 3. Impact of manufacturing industries on economic development. 4. Shifting of industries and its impact on the urban fringe 5. Role of globalization on manufacturing sector.	14

Reference Books:-

1. Alexander, J.W. Economic Geography, Prentice Hall, Englewood Cliffs, 1988.
2. Alexanderson, C.: Geography of Manufacturing, Prentice Hall, Bombay, 1967.
3. Hoover, E.M.: The Location and Space Economy, McGraw Hill, New York 1948.
4. Isard, W.: Methods of Regional Analysis, The Technology Press of M.I.T. & John Wiley & Sons, New York 1956.
5. Miller, E.: A Geography of Manufacturing, Prentice Hall, Englewood Cliffs, New Jersey, 1962.
6. Weber, Alfred, Theory of Location of Industries, Chicago University Press, Chicago, 1957.
7. Goh Cheng Leong (1997). "Human and economic geography", Oxford University Press, New York.
8. Truman, A. Harishorn, John W. Alexander (2000) "Economic Geography", Prentice Hall of India Ltd., New Delhi.
9. Thoman, R.S., Conkling E.C. and Yeates, M.H. (1968). Geography of Economic Activity, McGraw Hill Book Company, 1968.

Weight age of Marks

Topic No	Marks
1	10
2	10
3	10
4	10
5	10
Total	50 (40+10 Int.)

North Maharashtra University, Jalgaon

New Syllabus –w.e.f. June 2014

T.Y.B.A SEM -V

G3: POPULATION GEOGRAPHY

Aims & Objectives:

- Population is an important resource. The development of any nation is depends on human resource. It is a prime duty to acquaint with the human resource of the nation.
- To understand the recent problems of population in the world as well as nation.
- To familiarise the students with different theories of population growth.

Unit	Topic	Sub-Topic	Periods
1	Introduction to Population Geography	A) Definition, Nature and scope of Population Geography B) History and development of Population Geography C) Approaches to the study of Population Geography a) Systematic Approach b) Behavioral Approach c) Regional Approach d) System Approach D) Population Geography and its relation with other disciplines.	10
2	Population Data	A) Need of Population Data B) Types of Population Data a) Primary data b) Secondary data C) Methods and sources of collection of Population Data	10

		<p>a) Primary data: Personal interview and survey by questionnaires.</p> <p>b) Secondary data: Census Reports, Vital Registrations, National sample survey, International Publications, Internet</p> <p>D) Problems related to collection and utilization of population data</p>	
3	Distribution and Density of Population	<p>A) Distribution of population in the world</p> <p>B) Factors affecting the distribution of world Population:</p> <p>i) Physical factors: Topography, Climate, Soil, Water availability, Forest.</p> <p>ii) Cultural factors: Religion, Economic Development, Transportation, Govt. Policies, Agriculture and Political setup.</p> <p>C) Density of Population :Definition, Types of density of population :</p> <p>a) Arithmetic Density</p> <p>b) Agriculture Density</p> <p>c) Economic Density</p> <p>d) Critical Density</p>	15
4	Population Theories and Indian Population	<p>A) Concept of optimum , over and under population</p> <p>B) Theories of Population:</p> <p>a) Malthus Theory of Population</p> <p>b) Demographic Transition Theory</p> <p>C) Population resource regions of India</p> <p>a) Dynamic Region</p> <p>b) Prospective Region</p> <p>c) Problematic Regions</p>	15
5	Current issues and	Current issues and problems of Population in India: (a) Decreasing Sex Ratio, its positive	10

	problems in India	and negative impact on society. (b) Excess Urbanization and Pollution Problems. (c) Brain Drain of human resource	
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Weightage of Marks

Unit	Marks
1	10
2	10
3	10
4	10
5	10
Max Marks	40 (Ext.) 10 (Int.) =50 Max

Reference Books:-

- 1) Geography of population : J.B. Garnier, Longmans,London(1996)
- 2) Fundamentals of population Geography : B.N. Ghosh, Strling Publication, New Delhi(1985)
- 3) A Geography of population : Chandana R.C. Kalyani Publication ,New Delhi (1994)
- 4) Population Geography: Mohammand Izhar Hassan, Rawat publication
- 5) Lokshankhya Bhugol (Marathi) ;Ahirrao , Alizad and others.
- 6) Lokshankhya Bhugol (Marathi); Dr. V. J. Patil & Prof.S.V. Dhake
- 7) Lokshankhya Bhugol (Marathi); Dr. Sawat, Athawale.

NORTH MAHARASHTRA UNIVERSITY JALGAON
Syllabus for T.Y.B.A. Geography Sem- VI
(With effect from June 2014)

G-3: POLITICAL GEOGRAPHY

Unit No	Topic	Sub Topics	Periods
1	Introduction to Political Geography	i. Definition of Political Geography	12
		ii. History and Development of Political Geography.	
		iii. Nature and scope of Political Geography	
		iv. Elements of Political Geography.	
2	Evolution of State and Nation	i. Concept of State	12
		ii. Centrifugal and Centripetal Forces in the State	
		iii. Factors affecting the State.	
		iv. Concept of Nation	
		v. Difference between State and Nation	
3	Geopolitics	i. Origin and Concept of Geopolitics	12
		ii. Mackinder's Heartland Theory	
		iii. Spykman Rimland Theory	
		iv. Mahan Theory	
		v. Geostrategic views after Second World War (USA, China, India)	
4	Frontiers and Boundaries	i. Definition of Frontiers and Boundaries	12
		ii. Classification of International Boundaries	
		iii. Boundaries of India	
5	Geo-Political Problems and disputes	Geo-Political Problems and disputes in India i. Kashmir Problem / Conflict ii. Mc Mahon Line iii. Belgaum Border Dispute iv. Nasalize Movements.	

Weightage of Marks

Topic No	Marks
1	10
2	10
3	10
4	10
5	10

Max. Marks	50
External	40
Internal	10

References:

1. Sukhawal, Modern Political Geography of India, Sterling Publishers, New Delhi (1968)
2. Adhikari S., 1997: Political Geography, Rawat Pub. Jaipur.
3. Blij De H.J., 1972: Systematic Political Geography . Wiley, New York.
4. Cohen S.B., 1973: Geography and Politics in a divided world. Oxford, New York.
5. Cox K. (): Political geography: Territory, State and Society, Blackwell Publishers Ltd, 108, Cowely Road, Oxford, UK.
6. Dixit R. D., 1982: Political Geography. Tata McGraw Hill New Delhi.
7. Dwivedi R.L., 1996: Political Geography. Chaitanya Prakashan Allahabad.
8. Fahrer C., Glassner M. (2001): Political geography, Wiley.
9. Moor R., 1981: Modern Political Geography. McMillan, London.
10. Pounds N.G., 1972: Political Geography. McGraw Hill, London.
11. Taylor P. (1998): Political Geography, Prentice Hall.
12. Valkenberg S.U. & Stoz C., 1963: Elements of Political Geography. Prentice Hall of India, New Delhi.

North Maharashtra University, Jalgaon

New Syllabus –w.e.f. June 2014

T.Y.B.A SEM. V

S3: Environmental Geography

Objectives:-

- To create the environmental awareness amongst the students .
- To acquaint students with fundamental concepts of Environment.
- To understand various Environmental phenomena.
- To identify causes and effects of Environmental Pollution.

- To study the emerging Environmental Issues.
- To acquire the knowledge of Conservation of Resources.
- To aware the students about various Environmental Acts.

Unit	Topic	Sub-Topic	Periods
1	Introduction to Environmental Geography	<p>A) Environment:</p> <p>i) Meaning and Concept.</p> <p>ii) Types – Natural and Cultural.</p> <p>iii) Man and Environment Relationship.</p> <p>B) Definition Nature, (Comprehensive, Scientific, Interdisciplinary and Dynamic) and Scope of Environmental Geography.</p> <p>C) Approaches to the study of Environmental Geography:</p> <p>i) Environmental Deterministic.</p> <p>ii) Possibilistic.</p> <p>iv) Economic Deterministic.</p> <p>v) Ecological</p>	10
2	Ecosystem	<p>A) Meaning and concept of Ecosystem</p> <p>B) Cardinal Principles of Ecosystem</p> <p>i) Structure-Components : Abiotic & Biotic</p> <p>ii) Nutrient Cycling in Ecosystem</p> <p>a) Carbon Cycle</p> <p>b) Nitrogen Cycle</p> <p>iii) Energy Flow in Ecosystem:</p> <p>a) Food Chain.</p> <p>b) Food Web.</p>	16

		<p>C) Ecological Pyramids-</p> <ul style="list-style-type: none"> i) Population ii) Biomass iii) Energy <p>D) Types Of Ecosystem</p> <ul style="list-style-type: none"> i) Forest. ii) Grassland. iii) Desert. iv) Marine. 	
3	Environmental Pollution	<p>A) Definition of Pollution and Pollutants</p> <p>B) Types of Pollution</p> <ul style="list-style-type: none"> i) Air Pollution ii) Water Pollution iii) Noise Pollution iv) Solid Waste Pollution 	14
4	Environmental Issues	<p>Causes and Adverse Effects of the following Environmental Issues:</p> <ul style="list-style-type: none"> A) Green house effect. B) Depletion of Ozone. C) Global Warming. D) Acid Rain 	08
5	Conservation Of Resources and Environmental Acts.	<p>A) Conservation of Resources</p> <ul style="list-style-type: none"> i) Meaning and Concept. ii) Need of Conservation of Resources iii) Methods of Conservation of the following Resources: <ul style="list-style-type: none"> a) Soil , b) Water, c) Forest 	12

		b) Wild Life B) Environmental Acts. i) Air Pollution Acts. ii) Water Pollution Acts. iii) Forest Conservation Acts. iv) Wild Life Conservation Acts.	
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Weightage of Marks

Unit	Marks
1	10
2	10
3	10
4	10
5	10
Total	Max. 50 Ext. 40 Int. 10

Reference Books:-

- 1) Ahirrao and Alizad: Environmental Science, Nirali Publishing House, Pune
- 2) Savindra Singh (1997) : “Environmental Geography”, Prayag Pustak Bhawan , Alahabad 211002.
- 3) H.M Saxena: Environmental Studies, Rawat Publication, Jaipur & New Delhi.
- 4) Girish Chopra (2006) : Environmental Geography Commonwealth, New Delhi.
- 5) R.Kumar : “Environmental Pollution and Health”, Ashish Publication, 818, Punjab Bag, New Delhi.
- 6) C.N.Mehta (1991): “Environmental Protection and Laws”

Marathi Medium:

- 1) Niranjan Ghate :” **Paryavaran Pradushan**”, Mehata Prakashan, Pune.

- 2) Prof. S. V. Dhake ,Dr Ingale, Dr. V.J. Patil : **Paryavaranshastra.**
Prasahant Publication, Pune.
- 3) Dr. S.R. Chaudhari: “ **Paryavaran Abhyas**”,Himalaya Publishing
House, Mumbai.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

NEW SYLLABUS OF T.Y.B.A. GEOGRAPHY

Semester – V

**S3: REMOTE SENSING AND GEOGRAPHICAL INFORMATION
SYSTEM**

(With e. f. June, 2014)

Unit. No.	Topic	Sub-topics	Periods
I	Introduction to Remote Sensing	A) Definition, Nature and Scope of Remote Sensing B) Types Of Remote Sensing: i) Active Remote Sensing ii) Passive Remote Sensing	10
II	Active and Passive Remote Sensing	A) Active Remote Sensing i) Basic Geometrics Characteristics of Aerial Photographs ii) Types of Aerial Photographs: Vertical, Tilted and Oblique iii) Photographic Scales: Calculation of Scale, Flying height and Focal Length iv) Average scale of Aerial Photograph B) Passive Remote Sensing i) Definition, Nature and Scope ii) Types of Satellites: Polar & Equatorial iii) Functions of Satellites iv) Recent Development of ISRO	15
III	Elements Of Photo Interpretation and Application of Remote Sensing	A) Elements of Photo-interpretation B) Application Of Remote sensing in Different Fields i) Land use And Land Cover Mapping ii) Soil Mapping iii) Forestry Mapping iv) Water Resources mapping	15

IV	Introduction to G.I.S.	A) Definition, Nature and Significance of GIS B) Historical Development of GIS C) Components of GIS D) Types of GIS softwares and their Applications in different fields	10
V	Application of G.I.S.	A) Application of GIS in Different Fields: i) Watershed Development and Planning ii) Agriculture : Land Use and Land Cover iii) Forests iv) Defence iv) Management	10

Weightage of Marks

Unit No.	Marks
1	10
2	10
3	10
4	10
5	10
Max. Marks	50
External Exam	40
Internal Exam	10

Reference Books:

- 1) Tor Bernhardsen (2007) : Geographical Information System -An Introduction”, Wiley India Pvt. Ltd. New Delhi.
- 2) Peter A. Burrough and Rachael A. McDonnell(1997): Principles Of Geographical Information System ; Oxford University press.
- 3) Narayan Panigrahi (2010) : Geographical Information Science Universities press (India) Pvt.Ltd. Hyderabad
- 4) Thomas M. Lillesand, Ralph W. Kiefer& Jonathan W. Chipman (2010) : Remote Sensing And Image Interpretation” Wiley India Pvt. Ltd New Delhi.

Marathi Medium Books

- 5) Dr. Shrikant Karlekar (2007) : Bhougolic Mahiti Pranali” Daymad Publication Pune .
- 6) Dr. Shrikant Karlekar (2007) Dursavedan” Daymad Publication Pune

North Maharashtra University, Jalgaon

New Syllabus –w.e.f. June 2014

T.Y.B.A SEMESTER – V (S3)

S.3: GEOGRAPHICAL THOUGHTS

Objectives:

- 1 The objective of this course is To introduce students to the philosophical and methodology foundations of the subject and its place in the world of knowledge.
- 2 To know the brief ideas about geography in the ancient period of Greek, Roman, Arab & Indian.
- 3 To Understand the modern geography contributed by different geographers.
- 4 To understand how a modern geographical concepts & ideas achieved in geography.

Unit	Topic	Sub-Topics	Periods
1	History of Geographical Thoughts	Contribution of Geographers: 1. Greek Geographers 2. Roman Geographers 3. Arab Geographers	15
2	Contribution of Modern Geographers	1. Alexander Von Humboldt 2. Emmanuel Kant 3. Halford J.Mackinder 4. Vidal-de-La-Blache	15

		5. W.M.Davis	
3	Dualism & Dichotomies in Geography	1. Physical Geography vs Human Geography 2. General Geography vs Regional Geography 3 Determinism vs Possibilism	10
4	Conceptual Development	1. Spatial Organization 2. Regionalization 3. Sustainable Development	10
5	Ancient Indian Geographical Thoughts	1. Sources of information- contribution of Indian Geographers regarding Geography of India 2.The Universe and its Origin 3. Eclipses of Earth. Size of Earth,(latitudes),Deshantra(longitudes) Dwipas, Seasons Etc 4. Contribution of Kalidas, Aryabhata, Varahamihira, Brahamgupta and Bhaskarachrya in the field of Geography	10

Weightage of Marks:

Topic No	Marks
1	10
2	10
3	10
4	10
5	10
Total	50 (40+10 Int.)

Reference Books:

- 1 Adhikari Sudeeptha (1972) Fundamentals of geographical Thought
Chaitanya Publishing House Allahabad.
- 2 Dixit R,D.,(1999) Developmeht of geographical Thought , Longman India
Limited
- 3 Dohrs, F.E.and Sommers L.W, (ed) (1967) : Introduction to Geography
Thomas y. crowell co, Newyork,
- 4 Free Man , T.W, (1965) : Geography as Socical Science, Harper
International Edition, Harper & Row Publishers, New York.
- 5 Hussian Majid (1984): Evolution of Geographical Thought Rawat
Publication, Jaipur and New Delhi
- 6 Dr. Prakash Sawant (1999) Thought and Concepts in Geography Phadak
Prakashan Kolhapur
- 7 James P.E.(1980) All possible Worlds: A History of Geographical ideas,
Sachin Publication Jaipur (Indian Reprint)
- 8 Tozer H.P, (1951) History of Ancient Geography, Cambridge
- 9 Savdi , Kolekar – Bhougolic Vichar Pranalicha Vikas
- 10 Savdi , Kolekar – Aadhunik Bhugol , Sprdha Prikhsha Nirali Prakashan
Pune.
- 11 Khatib K. A. – Bhuvidyann Vikas, Sanjog Prakashan , Kolhapur
- 12 Dr. B. J. Velapurkar : Bhougolic Vichardharacha Vikas, Sandya prakashan,
Udgir

North Maharashtra University, Jalgaon

New Syllabus –w.e.f. June 2014

T.Y.B.A Sem V

G3: GEOGRAPHY OF RESOURCES

Objectives:

To acquaint students with the fundamental concepts of resources.

To make aware students the about misuse, overuse of resources and problems related to utilization.

To make aware the students about conservation of resources in the view of sustainable development.

To acquire the knowledge of conservation of resources.

Unit	Topic	Sub-Topics	Periods
1	Introduction to Geography of Resources	A) Introduction to Resources Geography : a. Importance of study of Resources. b. Nature of Geography of Resources. c. Scope of Geography of Resources. d. Approaches to the study of Geography of Resources. i) Systematic Approach ii) Regional Approach iii) Principle Approach iv) Statistical Approach	10
2	Classification Of Resources	A) Meaning and concept of Resources. B) Basic Classification: i) Renewable Resources ii) Non- renewable Resources C) Importance of Biotic and Abiotic Renewable Resources D) Importance of Biotic and Abiotic Non-Renewable Resources.	10
3	Land , Forest And Water Resources	A) Land Resources: i) Land as a resource ii) Importance and uses of land resources iii) Land degradation due to Agriculture, Mining, Deforestation, Industrial and urban Waste. B) Forest Resources: i) Uses and importance of forest resources ii) Environmental significance of forest Resources. iii) Causes and effects of deforestation. iv) Remedial Measures to conserve the forest resources. C) Water Resources: i) Water as a resource. ii) Sources of water. iii) Uses and importance of water resources for domestic, agriculture, industry, transportation and tourism, etc. iv) Methods of conservation of	16

		water resources.	
4	Mineral and Energy Resources	<p>A) Mineral Resources:</p> <p>i) Importance of mineral resources</p> <p>ii) World distribution of Iron Ore, Manganese, Bauxite and Copper.</p> <p>B) Power Resources:</p> <p>i) Importance of power resources</p> <p>ii) Classification and distribution of power resources.</p> <p>a) Exhaustible power resources: coal, Mineral oil.</p> <p>b) Non-exhaustible power resources: Solar Energy, Wind Energy and Hydro-electricity.</p>	16
5	Planning of Resources	<p>A) Concept of Resources Planning</p> <p>B) Need of Resources Planning</p> <p>C) Resources planning with reference to India.</p>	8

Weightage of Marks:

Unit	Marks
1	10
2	10
3	10
4	10
5	10
Total	50(40+10Int.)

Reference Books:-

- 1) Negi, B.S.1997: “ Geography of Resources”, Kedarnath Ramnath, Meerut.
- 2) Ray, S.2008: “National Resources, Organization and Technology Linkages”.
- 3) Skinner, B.J.1969: “ Earth Resources” , Prentice Hall, Englewood Cliffs, N.J.
- 4) Ramesh, A: Resources Geography.

Marathi Books:

- 1) Dr.Vitthal Gharpure: “ Sadhansampatti Bhugol” , Pimpalapur and Company Publishers, Nagpur.
 - 2) Prof.D.V. Patil and Sau. Jayashri Patil: “Sadhansampatti Bhugol
-

NORTH MAHARASHTRA UNIVERSITY, JALGAON.

F.Y.B.Com. SEM. 1: REVISED SYLLABUS

W.E.F. June – 2015

GEOGRAPHY OF TRADE

Objectives :-

- To acquaint the students with basic concepts of trade.
- To acquaint the students with scope, content and theoretical framework relating to Trade.
- To understand the spatial variations in movement of commodities, and trade relations within and between regions.

Topic	Unit
1. Introduction to Geography of Trade	i) Meaning and Definition of Geography of Trade ii) Nature and Scope of Geography of Trade iii) Relationship with other Discipline iv) Approaches to the study of Geography of Trade a) Regional Approach b) Commodity Approach c) Principles Approach
2. Basis of Trade	i) Physical Basis of Trade: a) Location b) Relief c) Geology d) Climate e) Soil ii) Economic Basis of Trade: a) Economic Feasibility b) Demand and Supply of Commodities c) Market Facilities d) Transport Facilities e) Technological and Scientific Progress iii) Political Basis of Trade: a) Political Stability

	<ul style="list-style-type: none"> b) Government Policy c) Political Ideology iv) Cultural Basis of Trade: <ul style="list-style-type: none"> a) Population as a Resource b) People Interest c) Cultural Progress
<p>3. Factors, Types of Trade</p>	<ul style="list-style-type: none"> i) Factors influencing on Trade <ul style="list-style-type: none"> a) Natural Resources b) Population c) Economic and Technological Development d) Transport and Commutations e) Political relationship ii) Different Types of Trade: <ul style="list-style-type: none"> i) Regional Trade: ii) Internal Trade: <ul style="list-style-type: none"> a) Wholesale Trade b) Retail Trade c) e-Trade iii) External Trade : <ul style="list-style-type: none"> a) Export Trade b) Import Trade c) Entrepot Trade iii) Nature of International Trade of India iv) Foreign Trade of the Following Countries: <ul style="list-style-type: none"> a) U.S.A. b) China c) Arab Countries
<p>4. Balance of Trade, Trade blocks and Theory.</p>	<ul style="list-style-type: none"> i) Introduction: <ul style="list-style-type: none"> a) Bilateral Trade b) Multilateral Trade c) Balance Trade, Favorable and unfavorable balance Trade ii) Common Market: <ul style="list-style-type: none"> a) European Free Trade Association (EFTA) b) United Nation Conference on Trade and Development (UNCTD) c) Latin American Free Trade Association (LAFTA) d) SAARC

III) Ricardian Theory of International Trade.
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Weightage of Marks

Unit No	Marks	Periods
1	10	07
2	20	12
3	15	12
4	15	14
University Exam	60	45
Internal Examination	40	----

Books:

- i) **Ajwani M.H.:** Commercial Geography, Vipul Publication, 218, Rajaram Mohanray Marg, Girgaon, Mumbai. 400004
- ii) **Ahirrao, Alizad, Dhapate, Patil, Shinde: (1988)** Commercial Geography, Rutuja Prakashan, Pune.
- iii) **Bhole A.S. (2013)** – Vyapari Bhugol va Vahtuk, Prashant Publication, Jalgaon.
- iv) **Bari S.A. (1978)** – Commercial geography, Modern Publisher, Bombay
- v) **Chaudhari Shankar R :** Paryawaran and Athik Kriya, Himalaya Publishing House, Mumbai. (Marathi Language)
- vi) **Chaudhari M.R.** - Economic Geography, second Edition oxford and IBH Publishing new Delhi, Bombay and Calcutta
- vii) **Gupta A. Das:** Economic and Commercial Geography, A. Mukharjee and Co. Pvt Ltd, Bankim Chatarjee street, Kolkata
- viii) **Goh cheng Leong:** Human and Economic Geography.
- ix) **Morgan and Pugh:** Economic Geography, Methuen & Company Ltd London.
- x) **P.R.Karmarkar, S.C.Gupte, S.D.Paranjpe:** Arthik va Vyapari Bhugol, Continental Prakashan, Pune-30
- xi) **S.P.Pathk:** Commercial Geography, Suvichar, Prakashan Mandal, 461/4, Sadashiv Peth, Pune-411030

North Maharashtra University, Jalgaon
F Y B Com. Sem. II Geography Syllabus
W. E. F. June 2015

GEOGRAPHY OF TRANSPORT

Objectives

1. To aware the students about transport system and its importance in day today life
2. To how to utilize land transport in occupational profit system.
3. To acquaint the student with basic concepts of transport and transport mode
4. To understand the variation in transport cost and economic development.

Unit	Topic	Sub- Topic	Periods
1	Introduction to Transport.	I) Transport-Meaning, Definition and Significance of Transport. II) Meaning, Definition, Nature and Scope of Transport Geography. III) Relationship with other disciplines. IV) Impact of physical conditions on modes of Transport. V) Role of transport in the economic development. VI) Variations in Transport costs	10
2	Land Transport.	Land Transport- Meaning and Types. A) Road Transport: - I) Meaning and Types. II) Merits & Demerits of road Transport. III) Importance of Pune -Mumbai Express Highway. IV) Significance of Golden Quadrilateral in India. B) Railway Transport- I) Meaning and Types. II) Merits and Demerits of Railway Transport. III) Importance of Konkan railway IV) Railway Divisions of India V) Role of land Transport in Economic development of India.	14
3	Water Transport.	Water Transport – I) Meaning and Types. II) Merits & Demerits of water Transport. III) The Suez Canal route and its importance. IV) The Panama Canal route and its importance. V) Inland water transport in India and U.S.A.	14

		VI) Ports and Harbors in India VII) Problems & prospects of water Transport in India.	
4	Air Transport.	Air transport- I) Meaning and Importance II) Merits and Demerits of air transport. III) Factors affecting air transport. IV) Development of Indian air transport system. V) Indian national policy of air transport.	10

Reference Books:

- 1) Dube R.N. & Negi B.S: “Economic Geography of India”, Kitab Mahal, Allahabad.
- 2) Goh Cheng Leong : “Human and Economic Geography”, Oxford University”, Gillan Morgan Press, New Delhi.
- 3) Majid Husain (1994) : “Transport Geography”, Anmol Publication Pvt. Ltd, New Delhi.
- 4) Morgan and Dugh (1977): “Economic Geography”, Himalaya Publishing House, Mumbai.
- 5) Nimkar and Kankure (1989): “Commercial geography”, Himalaya Publishing House, Mumbai.
- 6) Dr. Karmarkar P.R. : “Economic and Commercial Geography”, Continental Dr Gupte & Dr. Paranjpe Publication, Pune 30.
- 7) Goh cheng Leong: “Human and Economic Geography”.
- 8) Padey P.N.: - “Economic Geography” Nirali Prakashan Pune
- 9) Padey P.N.: - “Commercial Geography ”, Nirali Prakashan Pune

Weightage of Marks and Periods

Unit No.	Marks	Periods
I	12	09
II	18	12
III	16	12
IV	14	12
University Examination	60	45
Internal Examination	40	

NORTH MAHARASHTRA UNIVERSITY, JALGAON
F.Y.B.A. (SEM I) GEOGRAPHY SYLLABUS
W.E.F. June 2015
PHYSICAL GEOGRAPHY: PAPER I

Unit	Topic	Sub Topic	Period
1.	The Earth	A) Introduction To The Earth B) Parallels of Latitudes -Equator, Tropic Of Cancer & Capricorn, Artic, Antarctic Circles And Poles C) Parallels of Longitudes - Prime Meridians & Measurement D) Measurement of Time i) Local Time ii) Standard Time iii) GMT iv) International Date Line	07
2.	Movement and Lithosphere of the Earth	A) Movement of The Earth i) Inclination of The Earth Axis ii) Earth Rotation And Its Effects iii) Earth Revolution And Its Effects B) Lithosphere I . Interior of the Earth Crust, Mantle, Core, their minor details II. Rocks - Definition and Classification and Characteristics of Rocks i) Igneous Rocks ii) Sedimentary Rocks iii) Metamorphic Rocks	12

3.	Structure of the Earth (Lithosphere)	<p>A. Origin of Continents and Ocean</p> <p>i.) Waegener’s continental Drift Theory.- Description, Evidences & Criticism.</p> <p>B. Earthquake and Volcanoes</p> <p>i.) Earthquake- Causes and effects of Earthquake with examples.</p> <p>ii.) Volcanoes- Definition and Types , Effects of Volcanoes</p>	14
4.	Weathering	<p>A. Weathering : Definitions and Types of Weathering</p> <p>i) Mechanical Weathering</p> <p>ii) Chemical Weathering iii) Biological Weathering</p> <p>B. Work of Geomorphic Agents</p> <p>1. River-i) Erosional landforms of river: V shaped valley, Gorge, Rapids, Waterfall and Spot holes.</p> <p>ii) Depositional landforms of river: Meanders, Ox -bow lakes, Flood plains, Levees & Deltas.</p> <p>2. Wind- i) Erosional landforms of wind: Blow-out or Deflation Hollows, Mushroom rock, Yardangs, Zeugen, Inselburgs.</p> <p>ii) Depositional landforms of wind: Sand Dunes, Bharkhans and Loess</p>	12

Unit No	Name of the Unit	Marks	Period
1	The Earth	10	07
2	Movement and Lithosphere of the Earth	14	12
3	Structure of the Earth (Lithosphere)	18	14
4	Weathering	18	12
Uni.		60	45
Internal		40	

References:-

- Ahirrao, W.R., Alizad, S.S. and Dhapte, C.S., 1998. Morphology and Landscape, Nirali Prakashan, Pune
- Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
- Chaudhari S.R., V.J. Patil & Arvind Badgajar (2014) : Physical Geography Prashant Publication Jalgaon
- Chorley R. J. (ed.), 1972: Spatial Analysis in Geomorphology, Harper and Row.
- Christopher son, R.W. 2000, Geo-systems, Prentice Hall, INC. USA
- Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
- Husain, M., 2001. Fundamentals of Physical Geography, Rawat Publication, Jaipur.
- Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
- Monkhouse, F.J., 1996. Principles of Physical Geography, Hodder and Stoughton, London.
- Strahler A. H., 2008: Modern Physical Geography(4 Edition), Wile
- Singh, Savindra : Physical Geography (Eng./Hindi)
- Suryawanshi D.S., & Others, 2011. Geography (Lithosphere & Hydrosphere), Vrinda publication, Jalgaon
- Trewartha, G.T: Elements of Physical Geography) McGraw Hill, New York.

- Alan H. Strahler & Mark Potosnak: Physical Geography (II Edt. 2011) John Wiley & son Inc. 978-0-476-13486-3

- Alan Strahler (2011) : Introducing Physical Geography John Wiley & son Inc. 978-0-476-13486-3

- S.P.Date & Sanjivani Date : Prakruti Buidnyan, Anirudha Publishing H.K.Doifode(2008)House Pune Suvarna, Shilpa, 444/1 Shanivarpeth, Near Maruti Temple.
- H.J. deBlij & Peter O Mullar (2004) : Physical Geography IIIed Edit. Oxford University Press. 0-19-516022-3



**NORTH MAHARASHTRA UNIVERSITY, JALGAON
F.Y.B.A. (SEM II) GEOGRAPHY SYLLABUS**

PHYSICAL GEOGRAPHY: PAPER II

Topic	Sub Topic	Unit
(1) Atmosphere	Origin Composition and Structure of Atmosphere	i) Introduction, Meaning and Significance of Atmosphere ii) Composition of Atmosphere iii) Structure of Atmosphere: (a) Troposphere (b) Stratosphere (c) Ionosphere

(2) Insolation	I) Insolation	i) Definition ii) factors affecting the insolation a) Angle of the sunrays b) Length of the days c) Distance between earth and sun d) Effect of atmosphere iii) Temperature- Horizontal and vertical Distribution
(3) Atmospheric Pressure and Winds	I) Pressure Belt	I) Measurement of Atmospheric pressure II) Definition of Isobars III) Formation of Pressure Belts IV) Shifting of Pressure Belts and their effects
	II) Winds	Types of Winds: i) Planetary winds ii) Monsoon winds iii) Land and Sea breezes
(4) Atmospheric Moisture	I) Evaporation	i) Evaporation process
	II) Humidity	ii) Types of Humidity: (a) Absolute Humidity (b) Relative Humidity (c) Specific Humidity
	III) Precipitation	i) Forms of precipitation ii) Types of Rainfall: (a) Convectional (b) Orographic (c) Cyclonic
(5) Hydrosphere	I) Submarine Relief	(a) General Structure of Ocean Floor (b) Submarine Relief of Indian Ocean
	II) Ocean Currents	Ocean Currents of Atlantic

Weightage of Marks:

Unit No	Marks	Period
1	15	09
2	10	08
3	10	10
4	15	09
5	10	09

University Exam	60	45
Internal	40	

1) Sankar R Chaudhari & Misrilal B. Chavan	Prakrutic Bhugol, Prashant Publications, Jalgaon
2) Monkhouse J. (1971)	Principles of Physical Geography, University of London Press, Ltd.
3) Strahler A.N., & A.H. Strahler (1978)	Modern Physical Geography, Johan Wiley and Sons, New York.
4) Trewartha Robinsin Hammond (1967)	Physical Elements of Geography, McGraw Hill Books company, New York.
5) Frederich K Lutgens & Edward J ; Trabuck (11th Edition)	The Atmosphere PHI Learning Private Ltd New Delhi
6) K. Sidharth	Atmosphere, Weather & Climate Kisalaya Publications, Pvt Ltd. B-5/4, Poorvi Marg, NEA, Opp shri Gangaram Hospital New Delhi
7) Roger G Barry & Richard J Chorley (2003)	Atmosphere, Weather & Climate, Routledge Publications
8) Subhah Mehtani & Amarjit Sinha;	Oceanography, Common Wealth Publishing (Ist edition 2010) Pvt Ltd, 4831/24 Pralhad street, Ansari Road Dariya Ganj, New Delhi
9) Alan P Trujillo & Harold Thurman	Elements of Oceanography, 10th edition, (2012) PHI Learning Private Ltd New Delhi
10) K. Siddhartha	Oceanography, Kisalaya Publications, Pvt Ltd. B-5/4, Poorvi Marg, NEA, Opp shri Gangaram New Delhi

NORTH MAHARASHTRA
UNIVERSITY, JALGAON
S.Y.B.A.
GEOGRAPHY SYLLABUS
WITH EFFECT FROM
JUNE-2017

North Maharashtra University, Jalgaon

NEW SYLLABUS

S. Y. B. A. GEOGRAPHY

(With Effect from - June 2017)

Gg: 211(A) - Sem. I - G2: Human Geography

Gg: 221(A) - Sem. II - G2: Economic Geography

OR

Gg: 211(B) - Sem. I - G2: Geography of Resources

Gg: 221(B) - Sem. II - G2: Geography of Water Resource

Gg: 212(A) - Sem. I - S1: Geography of Tourism - I

Gg: 222 (A)- Sem. II - S1: Geography of Tourism - II

OR

Gg: 212(B) - Sem. I - S1: Physical Geography of Maharashtra

Gg: 222(B) - Sem. II - S1: Economic Geography of Maharashtra

Gg: 213 - Sem. I - S2: Practical Geography – I (Scale and Map Projections)

**Gg: 214 - Sem. II - S2: Practical Geography – II (Cartographic Techniques,
Surveying and Excursion / Village / Project Report)**

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- I

New Syllabus

(with effect from: June 2017)

Gg. 211(A): G2 – HUMAN GEOGRAPHY

Unit No.	Unit	Sub Unit	Periods
1.	Introduction to Human Geography	1. 1 Definitions, Nature and Scope of Human Geography. 1. 2 Branches of Human Geography a) Population Geography b) Social Geography c) Cultural Geography d) Economic Geography e) Political Geography f) Historical Geography 1. 3 Relation between Man and Environment 1. 4 Determinism and Possibilism 1. 5 Stop and Go Determinism	18
2.	The Race of Mankind	2. 1 Meaning and definition of race 2. 2 Physical basis of racial groups 2. 3 Classification of World Races a) Caucasoid b) Mongoloid c) Negroid d) Australoid 2. 4 Ethnic groups in India. 2. 5 Griffith Taylor's classification of Human Race	17
3.	Forms of Adaptation of the Environment	3. 1 Human life in Cold region-Eskimo 3. 2 Human life in Tropics: a) Equatorial region- Pigmy b) Desert region –Bushmen 3. 3 Human life in Mountainous region	15
4.	Study of Human Tribes in India	Tribes in India a) Gonds b) Bhill c) Naga d) Santhal	10
Total Periods			60

Weightage of Marks:

Sr. No.	Unit No.	Weightage
1	1	12
2	2	15
3	3	18
4	4	15
University Assessment (U. A.)		60
College Assessment (C. A.)		40

References: -

- 1) Human Geography Dr. S. K. Shelar
- 2) Human Geography H. R. Robinson.
- 3) Human Geography A. V. Perpillow
- 4) Human Geography Emry Jones
- 5) Text book of Principal of
Human Geography Ahirrao and Alizad
- 6) मानवी भूगोल : प्रा. ढाके, प्रा. पाटील व प्रा. भारंबे, प्रशांत प्रकाशन, जळगाव.
- 7) मानवी भूगोल : प्रा. करमरकर , प्रा. कार्लेकर
- 8) मानवी भूगोल : प्रा. खतीब, मेहता प्रकाशन, पुणे.
- 9) मानवी भूगोल : प्रा. क्षीरसागर, प्रा. भागवत, प्रा. सप्तर्षी
- 10) मानवी भूगोल : प्रा. सी.टी. पवार, सप्रेम प्रकाशन, कोल्हापूर
- 11) मानवी भूगोल : प्रा. प्रकाश सावंत फडके प्रकाशन, कोल्हापूर
- 12) मानवी भूगोल : डॉ. व्ही.टी. घारपुरे, नागपूर प्रकाशन.
- 13) मानवी भूगोल : डॉ. उत्तमराव जगदाळे, डायमंड प्रकाशन, पुणे.

North Maharashtra University, Jalgaon- New Syllabi of S.Y.B.A. Geography- w.e.f.-June 2017

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- I

New Syllabus

(with effect from: June 2017)

Gg. 211(B): G2 – Geography of Resources

Unit No.	Unit	Sub Unit	Periods
1	Introduction to Geography of Resources	1.1 Meaning and Concept of Resources. 1.2 Meaning and Concept of Resource of Geography. 1.3 Nature of Resource of Geography. 1.4 Scope of Resource of Geography. 1.5 Importance of Resources.	10
2	Classification of Resources	2.1 Basic Classification. a) Renewable Resources	10

		<p>b) Non- Renewable Resources</p> <p>2.2 Importance of Biotic & Abiotic Renewable Resources</p> <p>2.3 Importance of Biotic & Abiotic Non-Renewable Resources</p>	
3	Land, Forest and Water Resources	<p>3.1 Land Resources:</p> <p>a) Land as a Resources</p> <p>b) Importance of Land Resources</p> <p>c) Land Degradation due to Agriculture, Mining, Deforestation, Industrial and Solid Waste</p> <p>3.2 Forest Resources</p> <p>a) Importance and Uses of Forest Resources</p> <p>b) Causes and Effects of Deforestation.</p> <p>c) Remedial Measures to conservation of Forest Resources.</p> <p>3.3 Food Resources :</p> <p>a) Definition and Sources of food Resources</p> <p>b) Changes Caused by Agriculture and Overgrazing</p> <p>c) Effects of Modern Agriculture.</p> <p>d) Fertilizers, Insecticide and Pesticide Problems.</p> <p>e) World Food Problems</p>	18
4	Mineral & Energy Resources	<p>4.1 Mineral Resources</p> <p>a) Importance of Mineral resources</p> <p>b) World Distribution and utilization of (Iron ore, Manganese, Bauxite)</p> <p>4.2 Energy resources (Coal, Mineral Oil, Hydel Power)</p> <p>1.3 Economic and environmental significance and conservation of Energy Resources.</p>	14
5	Planning and Population Resources Relationship	<p>5.1 Concept of Resources Planning.</p> <p>5.2 Need of Resources Planning.</p> <p>5.3 Resources Planning with References of India.</p>	08

Weightage of Marks:

Sr. No.	Unit No.	Weightage
1	1	10
2	2	12
3	3	14
4	4	14
5	5	10
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

- 1) Alexander J. : Economic Geography
- 2) Dasgupta : Economic and Commercial Geography
- 3) Hartshone : Economic Geography
- 4) Agarwal, A.et.al. : The Citizen's Fifth Report, Center for Science and Environment, New Delhi, 1999.
- 5) Chandna, R.C. : A Geography of Population, Kalyani Publishers, Ludhiana, 1996.
- 6) Chandna, R.C. ; Environmental Geography , Kalyani Publishers, Ludhiana, 1996.
- 7) Chawla, I.N.. : Geography of Resources, Bhart Prakashan, Jalandhar, latest edition.
- 8) Kates, R.W. & Burton, I (Eds.): Geography of Resources and Environment, Vol.I & II, University of Chicago Press, Chicago, 1986.
- 9) Misra, A. : Environmental Studies, Selective and Scientific Books, New Delhi, 2004.
- 10) Saxena, H.M. : Environmental Geography, Rawat Publications, Jaipur and New Delhi.
- 11) डॉ. विठ्ठल धारपुरे :संसाधन भूगोल

North Maharashtra University, Jalgaon- New Syllabi of S.Y.B.A. Geography- w.e.f.-June 2017

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- I

New Syllabus

(with effect from: June 2017)

Gg. 212(A): S1 – GEOGRAPHY OF TOURISM - I

Objectives of the Course:

- 1) To develop and communicate basic conceptual framework of Geo -Tourism.
- 2) To understand the various elements of Geo-Tourism.
- 3) To realize its potentials, as against the achieved in the Indian context.
- 4) To motivate for Geo -tourism practices and processes of decision-making.
- 5) To evaluate the role of various organizations of Geo- tourism.

Unit No.	Unit	Sub Unit	Periods
1	Introduction to Geography of Tourism	1.1 Concept of Tourism 1.2 Definitions, Nature and Scope of Geography of Tourism 1.3 Elements of Tourism a) Mode of Travel b) Accommodation c) Recreation d) Time and Money e) Other 1.4 Factors affecting Tourism: - Historical, Geographical, Economical, Social & Cultural, Epidemics and Disasters.	14

2	Classification of Tourism	2.1 According to Purpose: - Religious, Vacational, Study Tours, Professional. 2.2 According to Nationality: - International, National, Regional, Local. 2.3 According to Travel Time: - Long haul, Short Haul Travel. 2.4 According to Distance: - Short distance, Long Distance.	14
3	Impacts of Tourism	Positive and Negative Impacts of Tourism: 3.1 Environmental Impacts: Land, Water, 3.2 Air, Noise, Vegetation/Forest & Wildlife 3.3 Economic Impacts: Foreign exchange, 3.4 Employment, Land Values, Trade, 3.5 Govt. Revenue, Infrastructure. 3.6 Social & Cultural Impacts: Religion, 3.7 Crime, Terrorism, Health, Neo-colonism 3.8 Linguistics.	14
4	Tourism Development	4.1 Development of Tourism in India & Maharashtra 4.2 Role of Tourist Organizations- MTDC, ITDC, WTO 4.3 Role of Internet in Tourism Development 4.4 Case Studies of Tourism Centers in India (Geographical and Tourism aspects) – Toranmal, Shirdi, Ajanta, Goa and Agra	18

Weightage of Marks

Sr. No.	Unit No.	Weightage
1	1	15
2	2	15
3	3	15
4	4	15
University Assessment (U.A.)		60
College level Assessment (C.A.)		40

References: -

- 1) Bhatia, A.K. (1991) : International Tourism Fundamentals and Practices, Sterling Publishers Pvt. Ltd., New Delhi-110016
- 2) Bhatia, A.K. : Tourism Development, Sterling Publishers Pvt. Ltd., New Delhi-110016
- 3) Boniface B. and Cooper C. -the Geography of Travel and Tourism, Heinemann Professional Publishing. London, England 1987
- 4) Burkart and Medlik -Tourism, Past, Present and Future Heinemann, ELBS. (1981)
- 5) Cooper, Fletcher, Tourism, Principles and practices, Pitman. Publishing ,1993

- 6) Dixit, M. Tourism Geography and Trends, Royal Publication
- 7) Geetanjali (2010) : Tourism Policy and Planning, ABD Publishers, Jaipur
- 8) Hall, CM and Page, SJ. - The Geography of Tourism and Recreation, Rutledge International Atlas, Penguin Publication and DK Publication
- 9) Kaul: Dynamics of Tourism, Sterling Publishers Pvt. Ltd., New Delhi-110016
- 10) Law B. C. (1968 ed) - Mountain and Rivers of India, Calcutta
- 11) Mill and Morrison (1992) : The Tourism system an Introductory Text , Prentice Hall
- 12) P.S. Gill: Dynamics of Tourism (4 Vols) Anmol Publication. New Delhi,
- 13) P.C. Sinha, -Tourism Evolution Scope Nature & Organization. Anmol Publication. New Delhi,
- 14) Robinson H.A.A. -Geography of Tourism, MacDonal and Evans, London.
- 15) R. M. Desai (1988) : Strategy of food and agriculture – Bombay
- 16) Seth: Tourism Management : Sustainable Tourism Development, Guide for Local Planners by WTO, Sterling Publishers Pvt. Ltd., New Delhi-110016
- 17) Wagh S.A. & Sonawane S.B. (2016) : Paryatan Bhugol, Atharva Prakashan, Jalgaon
- 18) प्रा. भागवत , प्रा जोशी : पर्यटन भूगोल
- 19) प्रा.डॉ. ए.एस. भोळे , प्रा.डी.पी.भाटेवाल : पर्यटन भूगोल , प्रशांत प्रकाशन , जळगाव.

North Maharashtra University, Jalgaon- New Syllabi of S.Y.B.A. Geography- w.e.f.-June 2017

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- I

New Syllabus

(with effect from: June 2017)

Gg. 212(B): S1 – PHYSICAL GEOGRAPHY OF MAHARASHTRA

Objectives of the Course:

- 1) To familiar the students with basic knowledge of our state.
- 2) To prepare students for NET, SET and competitive examinations.
- 3) To aware the students with available natural resources and need of conservation and protection.

Sr. No.	Unit	Sub Unit	Periods
1	Geographical Personality of Maharashtra	1.1 Introduction to Maharashtra: Natural, Historical and Political 1.2 Location, Extent and Geographical Area 1.3 Administrative Divisions 1.4 Adjoining or Adjacent States	10
2	Physiography and Drainage	2.1 Physiography: a) Konkan Region b) Western Ghat c) Maharashtra Plateau 2.2 Major Rivers in Maharashtra:	20

		a) Godavari b) Krishna c) Tapi d) Rivers in Konkan 2.3 Water Resources in Maharashtra - Major Dams or Water reservoirs in Maharashtra a) Koyna b) Jayakwadi c) Ujjani d) Totladoh e) Hatnur 2.4 Importance of Dam	
3	Climate	3.1 Factors affecting on Climate 3.2 Characteristics of Climate 3.3 Seasons 3.4 Regional variations in temperature and rainfall distribution	14
4	Soils and Natural Vegetation	4.1 Soil: a) Types of Soil b) Spatial Distribution of soil c) Characteristics of Soil d) Erosion and Conservation of Soil in Maharashtra 4.2 Natural Vegetation: a) Types of Forest b) Spatial Distribution of Forest c) Importance of Forest	16
Total Periods			60

Weightage of Marks:

Sr. No.	Unit No.	Weightage
1	1	10
2	2	20
3	3	12
4	4	18
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

- 1) Dr. S. M. Bhamare (2013) : Geography of Maharashtra, Prashant Publication, Jalgaon.
- 2) C. D. Deshpande : Geography of Maharashtra
- 3) K. R. Dixit : Maharashtra in Maps
- 4) S. H. Deshpande : Economy of Maharashtra

- 5) Jaymala Diddee, S. R. Jog, V. S. Kale, V. S. Datye : Geography of Maharashtra
- 6) Savadi and Keche : Maharashtra
- 7) R. L. Sing (2012): India: A Regional Geography, National Geographical Society of India, Varanasi -5.
- 8) संतोष दास्ताने : महाराष्ट्र
- 9) सुभाषचंद्र सारंग : महाराष्ट्राचा भूगोल, विद्या प्रकाशन, नागपूर.
- 10) डॉ. जयकुमार मगर : महाराष्ट्राचा भूगोल.

North Maharashtra University, Jalgaon- New Syllabi of S.Y.B.A. Geography- w.e.f.-June 2017

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- I

New Syllabus

(with effect from: June 2017)

Gg. 213: S2 – PRACTICAL GEOGRAPHY – I (Scale And Map Projections)

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

Objectives of the Course:

- 1) To acquaint the students with basic of Scale, Map Projections and cartographic techniques.
- 2) To enable the students to use Scale Map Projections and cartographic techniques.

Unit No	Unit	Sub Unit	Learning point	Periods
1	Maps and Scale	<p>1. Maps : Meaning, definition and Types</p> <p>2. Map Scale : Definition and Types</p>	<p>1.1 Map : Meaning, Definition and Types (Small Scale and Large Scale Maps).</p> <p>1.2 Scale : Definition and Types, Conversion of Verbal Scale to Numeric and vice versa (in British and Metric Systems)</p> <p>1.3 Construction of Simple Graphical Scale (Two examples in Metric System)</p> <p>1.4 Construction of Time and Distance Scale (Two examples in Metric System)</p>	20
2	Map Projections	<p>1. Definition and need of Map Projection</p> <p>2. Classification of map projection based on method of construction and developable surfaces used.</p>	<p>2.1 Definition, need and Classification of map projections based on method of construction and developable surfaces used.</p> <p>2.2 Construction by Graphical Method</p> <p>a) Zenithal Polar projection.</p> <p>i. Zenithal Polar Gnomonic Projection</p> <p>ii. Zenithal Polar Stereographic Projection.</p> <p>b) Conical Projection :</p> <p>i. Projection with one standard parallel</p> <p>ii. Bonne's Projection</p> <p>c) Cylindrical Projection</p>	40

			i. Cylindrical equal area Projection. ii. Mercator's Projection d) Introduction- Universal Transverse Mercator (UTM) projection 2.3 Choice of Projection (Construction of above map projections with properties and uses of each group: one example from each hemisphere).	
			Total Periods	60

- Note:**
1. Use of map stencils, log tables, statistical tables and calculators is allowed at the time of examination.
 2. Journal completion by the student and the certificate of completion by the practical in charge and the Head of the department is compulsory.
 3. Candidate without a certified journal should not be allowed for the practical examination.

Weightage of Marks:

Sr. No.	Unit No.	Weightage
1	1	15
2	2	35
3	Viva-voce	10
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References :

- 1) Singh Leharaj, (1973) : Map Work and Practical Geography, Central Book Depot – Allahabad.
- 2) D. Y. Ahirrao and E. K. Karanjkehele, (2002) : Pratyakshik Bhugol, Sudarshan – Nashik
- 3) P. G. Saptarshi and S. R. Jog, Statistical Methods
- 4) S. N. Karlekar, (2008) : Statistical Methods, Diamond – Pune
- 5) T. P. Kanetkar and S. V. Kulkarni, (1986) : Surveying and Leveling, Pune Vidyarthi Griha Prakashan – Pune.
- 6) Dhake S. V. and Patil V. J. (2007) Practical in Geography, Prashant Publication, Jalgaon.
- 7) Arjun Kumbhar, Practical Geography
- 8) Pijushkanti Saha & Partha Basu. (2007), 'Advanced Practical Geography', Books and Allied (P) Ltd, Kolkata

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- II

New Syllabus

(with effect from: June 2017)

Gg. 221(A): G2 – ECONOMIC GEOGRAPHY

Objectives of the Course:

- 1) To acquaint with the knowledge of economic realm in the world as well as in India.
- 2) To study the economic geography as a major branch of human geography.
- 3) To highlight the different economic activities observed in the world.
- 4) To study mineral and power resources in the specific regions of the world.
- 5) To study theory and modals in economic geography.
- 6) To explain the trade and transport activities in the world.

Unit No.	Unit	Sub Unit	Periods
1	Introduction to Economic Geography	1.1 Definitions. 1.2 Nature of Economic Geography. a) Interdisciplinary b) Dynamic 1.3 Scope of Economic Geography. 1.4 Approaches of Economic Geography. a) Regional approach b) Commodity approach c) Principle approach	12
2	Economic Activities	2.1 Meaning of economic activities. 2.2 Types of economic activities with characteristics and examples. a) Primary activities. b) Secondary activities. c) Tertiary activities. d) Quaternary activities.	12
3	Mineral and Power Resources	3.1 Distribution and production of a) Iron ore (USA & India) b) Coal (USA & India) 3.2 Distribution and importance of following Power resources in India a) Thermal power (State wise Distribution) b) Hydel power (10 Major Hydel Power Projects in India)	12

4	Industries and Trade	<p>4.1 Industries</p> <p>a) Factors affecting the location of industries.</p> <p>b) Weber's Theory of Industrial Location</p> <p>c) Production and distribution of following Industries</p> <p style="padding-left: 40px;">i. Cotton Textile Industry (Japan and India)</p> <p style="padding-left: 40px;">ii. Sugar Industry - India and special Reference to Maharashtra State.</p> <p>4.2 Trade</p> <p>a) Definitions.</p> <p>b) Types of trade.</p> <p>c) Factors affecting Trade</p> <p>d) India's Foreign trade (Import and Export)</p>	24
Total Periods			60

Weightage of Marks:

Sr. No.	Unit No.	Weightage
1	1	12
2	2	12
3	3	12
4	4	24
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

- 1) Economic Geography : John and Darkanwald.
- 2) Economic Geography : Alexander
- 3) Principles of Economic Geography Dr S.K.Shelar. Chandralok prakashan, Kanpur.
- 4) Economic Geography : Mrs. P.N. Padey, Nirali Prakashan, Pune.
- 5) Paryavaran va Arthik Kriya : Dr.S.R.Chaudhari
- 6) Arthik Bhugol : Prof.S.P.Pathak.
- 7) Arthik Bhugol : Prof.Ahirrao, Prof.Alizad, Prof.Dhapte
- 8) Arthik Bhugol Dr.V.T.Gharpure, Pimpalpure Prakashan, Nagpur.
- 9) Arthik va Wyapari Bhugol : Prof.Karmarkar, Gupte, Paranjape.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- II

New Syllabus

(with effect from: June 2017)

Gg. 221(B): G2 – GEOGRAPHY OF WATER RESOURCE

Objectives of the Course:

1. To know the significance of newly developed branch – ‘Geography of Water Resources’.
2. To Study the problems related to water resources.
3. To know the conservative measures of water resources.
4. To aware the students about various aspects of the scientific management of water resources.

Unit. No.	Unit	Sub Unit	Periods
1	Introduction	1.1 Water as a valuable natural resource 1.2 Definition and Concept of Geography of water resource 1.3 Nature and Scope of Geography of water resource 1.4 Distribution of world’s water resource (Surface and subsurface) 1.5 Hydrological cycle	16
2	Water Resources Utilization and Related Problems	2.1 Agricultural use of water, water logging, salinity problems 2.2 Industrial use of water 2.3 Water resource pollution problems 2.4 Causes of ground water depletion 2.5 Causes of scarcity of water	16
3	Conservations of Water Resources	3.1 Rain water harvesting and its need 3.2 Watershed development and its need 3.3 Pollution control measures 3.4 Water literacy 3.5 Planning for the development of water resource	12
4	Management of Water Resources	4.1 Social and Institutional considerations in water management 4.2 Conjunctive use of surface and ground water 4.3 Role of Jalyukt Shivar Scheme in water resource management 4.4 Role of River linkage in water resource management 4.5 Applications of Remote Sensing &GIS in water resource management	16

Weightage of Marks:

Sr. No.	Unit No.	Weightage
1	1	15
2	2	15
3	3	15
4	4	15
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

1. Anon (1983): Contour Bunds Save Water in Semi-arid Ethiopian Highland', United Nations University Newsletter .
2. Barrow C. J. (1983): The Environmental Conservancies of Water Resource Development in the Tropics, in Ooijin Bee (ed), Natural Resources in Tropical Countries, Singapore University Press.
3. Bale J. (1977): Hydrology and Water Resources in Tropical Africa, Elsevier, Amsterdam.
4. Barrow C. (1987): Water Resources and Agricultural Development in the Tropics, Longman, London
5. Biswas A. K. (1979): Management of Traditional Resource Systems in Marginal Areas, Environmental Conservation.
6. Canter L. W. (1986): Environmental Impacts of Water Resources Projects, Lewis Publishers, Inc., Chelsea, Michigan.
7. Capanera D. A. (1983): International River Law, in Zaman, M. et. A., (eds.), River Basin Development, Tycooly International Publishing, Dublin.
8. Deom J. (1976): Water Resources Development and Health: A Selected Bibliography, world Health Organization, Geneva.
9. Ferderick K. D. (1975): Water Management and Agricultural Development: A Case Study of the Cuyo Region of Argentina Published for Resources of the Future, Johns Hopkins University Press, Baltimore.
10. Furon R. (1963): The Problem of Water: A world Study, Faber and Faber, London
11. Sanjay Zende (2009) : Mantra Yashsvi Jalvyavsthapnacha, Shweta Publications, Aurangabad.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- II

New Syllabus

(with effect from: June 2017)

Gg. 222(A): S1: GEOGRAPHY OF TOURISM - II

Objectives of the Course:

- 1) To acquaint the students with tourism management and planning.
- 2) To study the fundamental concepts of travel management.
- 3) To understand the role of accommodation in tourism.
- 4) To acquaint the knowledge about tourism marketing.
- 5) To acquire the knowledge of tourism planning.
- 6) To know various aspects of tourism development.

Unit. No.	Unit	Sub Unit	Periods
1	Travel Management	1.1 Importance of Travel and Tourism 1.2 Travel Motivation 1.3 Need of Travel Management 1.4 Meaning and Concepts of Travel Agent, Tour Company and Transport Company 1.5 Travel Agencies - a) Definition and History of Travel Agency b) Functions of Travel Agencies 1.6 Requirements for International Travel – a) Passport (Documents required in India for passport) b) Visa c) Other permits d) Health and Immunization Requirements e) Customs Clearance	15
2	Accommodation	2.1 Need and Significance of Accommodation 2.2 Types of Accommodation a) Hotels (Types of Hotels) b) Motels c) Dharmashalas d) Tourist Homes e) Youth Hostels f) Rail Yatri Bhavans g) House Boats h) Government Accommodations i) Private Accommodations	14
3	Tourism	3.1 Concept and Definition of Tourism Marketing	15

	Marketing	3.2 Factors of Tourism Product a) Attraction b) Facilities c) Accessibility 3.3 Functions of Tourism Marketing a) Market Research b) Advertisement c) Sales Support d) Public Relations e) Tourism Publications	
4	Tourism Planning	4.1 Importance of Tourism Planning 4.2 Tourism Planning in Developed and Developing countries. 4.3 Components of Tourism Planning i) Tourism Programme Implementation ii) Evaluation of Tourism Attraction iii) Infrastructural Facilities iv) Investment Planning v) Environmental Planning vi) Tourism Management 4.4 Model of Tourism Planning 4.5 Tour Operation i) Tour Operation Management ii) Itinerary Planning and Costing iii) Tour Guiding and Operation	16

Weightage of Marks

Sr. No.	Unit No.	Weightage
1	1	15
2	2	15
3	3	15
4	4	15
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

- 1) Batra G.K. (Edited): "Tourism in the 21st century" Anmol Publication Pvt. Ltd. Ansari Road Daryaganj – Delhi
- 2) Boniface, B. and Cooper C. (1987): "The Geography of Travel and Tourism", Heinemann Professional Publishing, London, England.
- 3) Burkat and Medlik (1981): "Tourism - Past, Present and Future", Heinemann, ELBS, England.
- 4) Bhatia, A.K. (1991): "Tourism Development - Principles and Practice", Sterling Publishers Private Limited, L10, Green park extension, New Delhi.
- 5) Cooper and Flether (1993): "Tourism –Principles and Practices", Pitman Publishing.
- 6) Matley Ian M. (): "The Geography of International Tourism", Scientific Publishers, Jodhpur.
- 7) Robinson H.A. (1996): "Geography of Tourism", MacDonal and Evans, London.

- 8) Seth P.N. (1985): “Successful Tourism Management”, Sterling Publishers Ltd. New Delhi.
 9) Sharma A. (2008): “Tourism Development”, RBSA Publishers, Jaipur.

Marathi Medium

- 10) Bhatewal D.P. (2016): “Paryatan Bhugol”, Prashant Publications, Jalgaon.
 11) Bhagvat A.V. (): “Paryatan Bhugol”, Murlidhar Prakashan, Pune.
 12) Dr. Keche Pandurang (): “Maharashtracha Bhugol”
 13) Dr. Shinde S.B. (): “Paryatan Bhugol”, Phadke Prakashan, Kolhapur
 14) Gharpure V.T.(): “Paryatan Bhugol” ,Vidhya Prakashan, Nagpur
 15) Ghaisas Vasanti (): “Chala Safarila”
 16) Khatib K.A. (): “Paryatan Bhugol”, Ajab Pustakalaya, Kolhapur.
 17) Patil Sambhaji (2015): “Pravas Vyavasthan and Paryatan Uddyog”, Atharv Pub.,Jalgaon.
 18) Suryawnsi D.S.(): “Paryatan Bhugol”, Pritam Prakashan, Jalgaon.
 19) Wagh S.A. & Sonawane S.B. (2016) : Paryatan Bhugol, Atharva Prakashan, Jalgaon

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NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- II

New Syllabus

(with effect from: June 2017)

Gg. 222(B): S1 - ECONOMIC GEOGRAPHY OF MAHARASHTRA

Objectives of the Course:

- 1) To acquaint the student with basic knowledge of Maharashtra state.
- 2) To acquaint the student with prospects and problems of agriculture, industries, trade and transport of Maharashtra.
- 3) To know the demographic structure of Maharashtra.
- 4) To make students ready for NET, SET and competitive examinations.

Unit No	Unit	Sub Unit	Periods
1	Population	1.1 Factors affecting on distribution of population in Maharashtra. 1.2 Population distribution in Maharashtra a) High population region b) Medium population region c) Low population region 1.3 Urbanization in Maharashtra	13
2	Agriculture	2.1 Role of agriculture in the Economy of Maharashtra 2.2 Characteristics of Agriculture in Maharashtra 2.3 Types of agriculture a) Plantation agriculture b) Dairy farming 2.4 Organic farming – Concept , Merits and Demerits 2.5 Recent trends in agriculture – Introduction to Polyhouse and Shade net house	13

		<p>2.6 Agro – climatic zones in Maharashtra</p> <p>2.7 Problems of agriculture and its remedial measures</p>	
3	Minerals, Energy Resources and Industries	<p>3.1 Major minerals and their production and distribution</p> <p>a) Iron ore</p> <p>b) Bauxite</p> <p>3.2 Energy resources – production and distribution</p> <p>a) Coal</p> <p>b) Thermal power projects</p> <p>c) Hydel power projects</p> <p>d) Wind mills</p> <p>e) Solar power projects</p> <p>3.3 Industries –</p> <p>a) Cotton Textile Industries –</p> <p>i. Factors governing the location of cotton textile industries.</p> <p>ii. Distribution and problems faced by cotton textile industries.</p> <p>b) The sugar industries – Distribution and difficulties of sugar industries.</p>	17
4	Trade and Transport	<p>4.1 Factors affecting on trade</p> <p>4.2 Trade – International and National trade of Maharashtra.</p> <p>4.3 Transportation – Meaning and different modes of transportation</p> <p>a) Roads – Classification of roads</p> <p>i) National highways</p> <p>ii) State highways</p> <p>iii) Major district roads</p> <p>iv) Village road</p> <p>b) Railways –</p> <p>i) General information about length, distribution and types of gauges.</p> <p>ii) Main railway lines passing through Maharashtra.</p>	17

Weightage of Marks

Unit	Periods	Marks
1	13	14
2	13	14
3	17	16
4	17	16
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

1. Government of India. : The Gazetteer of India, Vol. I & II, Publication Division, New Delhi, 1965.

2. Government of India: Census of India 2011
3. Deshpande, C.D.: India: A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
4. Sharma, and Coutinho,: Economic and Commercial Geography of India. Vikas Publishing House, India, 1998.
5. Memoria, C. B.: Geography of India, Shival Agrawal and Co., Agra, 1986.
6. Negi, B. S.: Economic and Commercial Geography of India, Kedarnath Ram nath, New Delhi.
7. Tirtha, Ranjit.(2002) : Geography of India, Rawat, Jaipur.
8. Tata McGraw Atlas: Socio Economic Atlas of India
9. Majid Hussain (2014): Geography of India ,McGraw Hill Education (India) Private education, New Delhi.
- 10) Dr. S. M. Bhamare (2013) : Geography of Maharashtra, Prashant Publication, Jalgaon.
- 11) C. D. Deshpande : Geography of Maharashtra
- 12) K. R. Dixit : Maharashtra in Maps
- 13) S. H. Deshpande : Economy of Maharashtra
- 14) Jaymala Diddee, S. R. Jog, V. S. Kale, V. S. Datye : Geography of Maharashtra
- 15) Savadi and Keche : Maharashtra
- 16) R. L. Sing (2012): India: A Regional Geography, National Geographical Society of India, Varanasi -5.
- 17) संतोष दास्ताने : महाराष्ट्र
- 18) सुभाषचंद्र सारंग : महाराष्ट्राचा भूगोल, विद्या प्रकाशन, नागपूर.
- 19) डॉ. जयकुमार मगर : महाराष्ट्राचा भूगोल.

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NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER- II

New Syllabus

(with effect from: June 2017)

Gg. 214: S2: PRACTICAL GEOGRAPHY – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)

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

Objectives of the Course:

1. To enable the students to use various Cartographic Techniques.
2. To acquaint the students with the principles of surveying, its importance and utility in the Geographical study.

Unit No.	Unit	Learning Point	Exercises	No. of Period
1	Cartographic Techniques	1. Definition Cartography 2. Cartographic Map as Tool of Geographical study 3. Techniques for the study of spatial pattern of distribution	1.1 Simple Line and Bar Graph 1.2 Pie Diagram 1.3 Proportional circle 1.4 Choropleth Map	26

			1.5 Dot Map (With Importance and limitation)	
2	Surveying	1. Directions 2. Various Methods of deciding North direction True, Magnetic and Grid North 3. Definition of Surveying 4. Types of Survey a) Plane Survey b) Geodetic Survey 5. Importance of Land Measurement. 6. G.P.S. - Introduction, History and Application	2.1 Methods of Plane Table Survey a) Radiation Method b) Intersection method 1.2 Land Measurement and area calculation	24
3	Excursion / Village Survey Report	Visit to places of Geographical Interest anywhere in the country Or Socio-Economic Survey of Village	Visit to places of geographical interest Anywhere in the country. One short tour of two days duration and Preparation of tour report. OR One long tour more than five days and preparation of tour report	10

Note:

1. Use of map stencils, log tables, statistical tables and calculators is allowed at the time of examination.
2. Journal completion by the student and the certificate of completion by the practical in charge and the Head of the department is compulsory.
3. Candidate without a certified journal should not be allowed for the practical examination.

Weightage of Marks

Unit	Periods	Marks
1	26	18
2	24	22
3	10	10
4	Viva-voce	10
University Assessment (U.A.)		60
College Assessment (C.A.)		40

References: -

- 1) T. P. Kanetkar and S. V. Kulkarni, (1986): Surveying and Leveling, Pune Vidyarthi Griha Prakashan, Pune.
- 2) ArjunKumbhare, Practical Geography
- 3) Pijushkanti Saha & Partha Basu. (2007), 'Advanced Practical Geography', Books and Allied (P) Ltd, Kolkata
- 4) Singh Lehraj, (1973) : Map Work and Practical Geography, Central Book Depot, Allahabad.

- 5) D. Y. Ahirrao and E. K. Karanjkele, (2002) :Pratyakshik Bhugol, Sudarshan, Nashik.
- 6) GopalSingh (1973) : Map Work and Practical Geography, Vikas publication, Ravindra Mansion, Ram Nagar, New Delhi- 110055.



North Maharashtra University,
Jalgaon

Syllabus for

F.Y.B.A

Geography

(With effect from June 2018)

Choice Based Credit System (CBCS)

North Maharashtra University,
Jalgaon

Choice Based Credit System (CBSC)

Under Graduate Programme UG
F.Y.B.A Geography

Curriculum Structure and Scheme of Evaluation for B.A First Year With effective
from June 2018

Semester	Paper No.	Title of the Paper	Credit
I	Gg. 101	PHYSICAL GEOGRAPHY: PART- I (Lithosphere)	03
II	Gg. 201	PHYSICAL GEOGRAPHY: PART- II (Atmosphere & Hydrosphere)	03

प्रश्न पत्रिकेचे स्वरूप
(CBSC Pattern)
वर्ग - एफ. वाय. बी. ए.

वेळ - २ तास

गुण - ६०

सुचना -

१. सर्व प्रश्नांना समान गुण आहेत.

२. सर्व प्रश्न बंधनकारक आहेत.

प्र. १. ला. एका वाक्यात उत्तरे लिहा. (कोणतेही सहा)

गुण - १२

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प्र. २. रा. तीन ते चार वाक्यात उत्तरे लिहा (कोणतेही चार)

गुण - १२

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प्र. ३. रा. थोडक्यात उत्तरे लिहा. (कोणतेही तीन)

गुण - १२

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प्र. ४. था. टिपा लिहा. (कोणतेही दोन)

गुण - १२

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प्र. ५. वा. सविस्तर उत्तरे लिहा. (कोणतेही एक)

गुण - १२

१.-----

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NORTH MAHARASHTRA UNIVERSITY, JALGAON
F.Y.B.A. (SEMESTER – I) GEOGRAPHY SYLLABUS
W.E.F. JUNE- 2018

Total Credits – 03

External Marks – 60

Internal Marks - 40

Gg. 101 PHYSICAL GEOGRAPHY: PART– I (Lithosphere)

Sr. No.	Topic	Sub Topic	Unit	Periods	Marks
1	Imaginary Lines and Movement of The Earth	A. Imaginary Lines	i. Parallels of Latitudes – Equator, Tropic of Cancer & Capricorn, Artic, Antarctica Circles and Poles. ii. Meridians of Longitudes – Prime Meridian	20	10
		B. Movement of The Earth	i. The Earth Axis ii. Rotation of the earth and It's effects iii. Revolution of the earth and Its effects.		10
2	Origin of Oceans and Continents	A.Wagener's Continental Drift Theory and Interior of the Earth	i. Salient feature of distribution of Continent and Oceans. Continental Drift Theory a) Basic Concept b) Evidences c) Criticism ii. Interior of the earth Crust, Mantle, Core and their minor details	20	10
		B. Rocks and Earthquake and Volcanoes	i. Definition, Classification and Characteristics of Rocks a) Igneous Rocks b) Sedimentary Rocks c) Metamorphic Rocks ii. Causes and effects of Earthquake with examples. iii. Volcanoes - Types, Causes, effects		10

3	Weathering and Work of Geomorphical Agents	A. Weathering	<ul style="list-style-type: none"> i. Definition ii. Types of weathering <ul style="list-style-type: none"> i. Mechanical ii. Chemical iii. Biological 	20	10
		B. Work of Geomorphical Agents	<ul style="list-style-type: none"> iii. River, Erosional landforms of river: <ul style="list-style-type: none"> i. V shaped Valley ii. Pot holes iii. Gorge iv. Rapids v. Waterfall iv. Depositional Landforms of river <ul style="list-style-type: none"> i. Meanders ii. Ox-Bow lakes iii. Flood Plains iv. Levees v. Deltas v. Winds, Erosional landforms of wind <ul style="list-style-type: none"> i. Blow- out or Deflation ii. hollows, iii. Mushroom Rock, iv. Yardangs, v. Zeugen, vi. Inselburgs. vi. Depositional landforms of wind – Sand Dunes, Barkhans and Loess 		

References:-

- Ahirrao, W.R., Alizad, S.S. and Dhapte, C.S., 1998. Morphology and Landscape, Nirali Prakashan, Pune
- Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
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- Christopher son, R.W. 2000, Geo-systems, Prentice Hall, INC. USA
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- Strahler A. H., 2008: Modern Physical Geography(4 Edition), Wile
- Singh, Savindra : Physical Geography (Eng./Hindi)
- Suryawanshi D.S., & Others, 2011. Geography (Lithosphere & Hydrosphere), Vrinda publication, Jalgaon
- Trewartha, G.T: Elements of Physical Geography) McGraw Hill, New York.

- Alan H. Strahler & Mark Potosnak: Physical Geography (II Edt. 2011) John Wiley & son Inc. 978-0-476-13486-3

- Alan Strahler (2011) : Introducing Physical Geography John Wiley & son Inc. 978-0-476-13486-3

- S.P.Date & Sanjivani Date : Prakrutic Buvidnyān, Anirudha Publishing H.K.Doifode(2008)House Pune Suvarna, Shilpa, 444/1 Shanivarpeth, Near Maruti Temple.
- H.J. deBlij & Peter O Mullar (2004) : Physical Geography IIIed Edit. Oxford University Press. 0-19-516022-3

NORTH MAHARASHTRA UNIVERSITY, JALGAON

F.Y.B.A. (SEMESTER – II) GEOGRAPHY SYLLABUS

W.E.F. JUNE- 2018

Total Credits – 03

External Marks – 60

Internal Marks - 40

Gg. 201 PHYSICAL GEOGRAPHY: PART- II (Atmosphere&Hydrosphere)

Sr. No.	Topic	Sub Topic	Unit	Periods	Marks
1	Atmosphere And Insolation	A. Origin Composition and Structure of Atmosphere	i. Introduction, Meaning of Atmosphere ii. Structure of Atmosphere a) Troposphere b) Stratosphere c) Ionosphere	20	10
		B. Insolation	i. Definition ii. Factors affecting the insolation a. Angle of the Sun rays b. Distance between earth and sun c. Distance between earth and sun d. Effects of atmosphere iii. Temperature – Horizontal and Vertical Distribution		10
2	Atmospheric Pressure, Winds and Atmospheric Moisture	A. Pressure Belt and Winds	i. Measurement of Atmospheric Pressure a) Definition of Isobars b) Formation of Pressure Belts c) Shifting of Pressure Belts and Their effects ii. Types of Winds a) Planetary Winds b) Monsoon winds c) Land and Sea Breezes	20	10
		B. Humidity and Precipitation	i. Definition and Types of Humidity a) Absolute Humidity		10

			b) Relative Humidity ii. Forms of Precipitation- Fog, Dew, Frost, Hail, Rain, Snowfall iii. Types of Rainfall a. Convectonal b. Orographic /Relief c. Cyclonic		
3	Hydrosphere	A. Submarine Relief	i. General Structure of ocean Floor ii. Submarine Relief of Indian Ocean	20	10
		B. Ocean Currents	i. Definition ii. Causes of Ocean Currents iii. Ocean Currents in Atlantic Ocean iv. Ocean Currents in Indian ocean		10

References:

1) Sankar R Chaudhari & Misrilal B. Chavan	Prakruti Bhugol, Prashant Publications, Jalgaon
2) Monkhouse J. (1971)	Principles of Physical Geography, University of London Press, Ltd.
3) Strahler A.N., & A.H. Strahler (1978)	Modern Physical Geography, Johan Wiley and Sons, New York.
4) Trewartha Robinsin Hammond (1967)	Physical Elements of Geography, McGraw Hill Books company, New York.
5) Frederich K Lutgens & Edward J ; Trabuck (11th Edition)	The Atmosphere PHI Learning Private Ltd New Delhi
6) K. Sidharth	Atmosphere, Weather & Climate Kisalaya Publications, Pvt Ltd. B-5/4, Poorvi Marg, NEA, Opp shri Gangaram Hospital New Delhi
7) Roger G Barry & Richard J Chorley (2003)	Atmosphere, Weather & Climate, Routledge Publications
8) Subhah Mehtani & Amarjit Sinha;	Oceanography, Common Wealth Publishing (Ist edition 2010) Pvt Ltd, 4831/24 Pralhad street, Ansari Road Dariya Ganj, New Delhi
9) Alan P Trujillo & Harold Thurman	Elements of Oceanography, 10th edition, (2012) PHI Learning Private Ltd New Delhi
10) K. Siddhartha	Oceanography, Kisalaya Publications, Pvt Ltd. B-5/4, Poorvi Marg, NEA, Opp shri Gangaram New Delhi

North Maharashtra University,
Jalgaon



F. Y. B.com (Elective - Geography of Disaster Management)

Semester I & II

Choice Based Credit System (CBCS)

With effect from June 2018

Vijay
Prof. V. J. Patil

North Maharashtra University, Jalgaon

FACULTY OF COMMERCE & MANAGEMENT

F. Y. B.Com – w. e. f. June 2018

SEMESTER: I

Paper: 107 g - Elective Geography of Disaster Management (Part – I)

CBCS Pattern:

External Marks 60

Internal Marks 40

Silent Features:

- Basic concept in Disaster Management.

Utility:

- To Understand Definitions and Terminologies used in Disaster Management.
- To know the most efficient and effective methods to prevent natural and man – made calamities.

Learning Objectives:

- To understand basic concepts in Disaster Management.
- To create awareness on disasters through intensive public education
- To Understand Types, Categories and impact of Disasters.

Pre-requisites:

World Map – Models – Charts – Audio – Visual aids. etc.

Unit No	Topic	Sub – Topic	Marks
1	Introduction	1. Meaning, Nature and Characteristics of Disaster 2. Classification of Disasters 3. Importance of Disaster Studies 4. Aims And Objectives of Disaster Studies 5. Difference between accidents and disasters	10
2	Geo – Physical Disaster	Causes, Effects and Management (Pre, During, Post) of following Disasters. 1. Earthquake 2. Land Slide 3. Tsunami 4. Landslide and Mining 5. Volcanic Eruption	10
3	Atmospheric Disaster	Causes, Effects and Management (Pre, During, Post) of following Disasters. 1. Cyclone 2. Floods 3. Drought 4. Lighting 5. Hailstorms	10

4	Man Made Disaster	Causes, Effects and Management (Pre, During, Post) of following Disasters. 1. Fire – Building fire, Coal fire, Oil fire, and forest fire 2. Terrorism 3. Accidents – Road accidents, Rail accidents, Water accidents, Air accidents 4. Wars 5. Chemical disaster	10
5	House Hold Disasters	Causes, Effects and Management (Pre, During, Post) of following Disasters. 1. Gas Cylinder Explosion 2. Short Circuits 3. Snake & Dog Bite 4. Electric Shock	10
6	Global Environmental Problems	Causes, Effects and Management 1. Global Warming 2. Ozone Depletion 3. Epidemics 4. Famine	10

Reference Books: -

1. Disaster Management; Future challenges and opportunities, Editor: Jagbir Singh . K. International Publishing House Pvt. Ltd., New Delhi, Mumbai, Bangalore.14
2. Concept and Practices in Disaster Management, Colonel (Retd.) P.P. Marathe, Diamond Publications,1691, SadashivPeth , Near Grahakpeth, Pune 411030
3. Hand Book of Effective Disaster: Recovery, Planning, Mc Grow Hill Publ.London
4. The Book of Natural Disaster: Alladin Books Ltd., London.
5. Disaster Management: Ed. Vinod Sharma, National Center for Disaster Management, Indian Institute of Pub. Administration,Indraprastha Estate, Ring Road New Delhi 110002.
6. Earthquake: A.K.R. Hemmody, NBT of India.
7. Disaster Preparedness, Council for Advancement of Peoples Action and Rural Technology, D- Block, Ponkha Road Janakpuri, New Delhi, 110075.
8. Disaster in India studies of grim Reality, AnuKapur and Neeta Meena Deeplima, Roshani, Debhanjal, Rawat Publication, Jaipur.
9. Environmental Geography and Natural Hazards, A.A. Pirazizi Concept Publication Co., New Delhi.

Vijay P. Patil

North Maharashtra University, Jalgaon

FACULTY OF COMMERCE & MANAGEMENT

F. Y. B.Com – w. e. f. June 2018

SEMESTER: II

Paper: 207 g - Elective - Geography of Disaster Management (Part – II)

CBCS Pattern:

External Marks 60

Internal Marks 40

Silent Features:

- Role and responsibilities of different agencies and government in Disaster Management.

Utility:

- To understand role of various modern technologies in Disaster Management.

Learning Objectives:

- To know role & responsibilities of Different Agencies & Government
- To know the Importance of planning in disaster preparedness.
- To get information regarding disaster medicine.

Pre-requisites:

World Map – Models – Charts – Audio – Visual aids. etc.

Unit No	Topic	Sub – Topic	Marks
1	Role & Responsibilities of Different Agencies & Government	<ol style="list-style-type: none">1. Role of Information, Education, Communication & Training2. Role & Responsibilities of Central, State, District & Local Administration3. Role & Responsibilities of Armed Forces, Police, Para Military forces4. Role & Responsibilities of NGO's & International Agencies	10
2	(A) Manifesting Disaster (B) Mitigations of Disaster	<ol style="list-style-type: none">1. Resources planning & Mobilization2. Immediate Survival Kit3. Medical Kit4. Riské Equipment5. Do's and Don'ts during disaster <ol style="list-style-type: none">1. Provision of Financial Resources2. Construction of permanent Infrastructure3. Establishment of controlling centers	10

3	Technologies for Disaster Management	1. Role of IT in Disaster Management 2. Role & Application of RS, GIS & GPS in Disaster Management	10
4	Disaster Preparedness	1. Introduction 2. Warning & Alarm System 3. Importance of planning in disaster preparedness 4. Pre & Post disaster phases 5. Community-based disaster preparedness plan 6. Disaster Mapping & its applications	10
5	Disaster Response	1. Introduction 2. Disaster Response Plan 3. Damage Assessment & its Techniques 4. Role of youth organizations in disaster management 5. Human behavior in disaster management 6. Types and sources of stress regarding disaster event	10
6	Disaster Medicine	1. Introduction 2. Epidemiological study of disasters. 3. Clinical casualty management 4. Immunization and vaccination 5. Logistics management, logistic support plan	10

Reference Books: -

1. Disaster Management; Future challenges and opportunities, Editor: Jagbir Singh.K. International Publishing House Pvt. Ltd., New Delhi, Mumbai, Bangalore.14
2. Concept and Practices in Disaster Management, Colonel (Retd.) P.P. Marathe,Diamond Publications,1691, SadashivPeth , Near Grahakpeth, Pune 411030
3. Hand Book of Effective Disaster: Recovery, Planning, Mc Grow Hill Publ.,London.
4. The Book of Natural Disaster: Alladin Books Ltd., London.
5. Disaster Management: Ed. Vinod Sharma, National Center for DisasterManagement, Indian Institute of Public Administration, Indraprastha Estate, Ring Road New Delhi 10002.
6. Earthquake: A.K.R. Hemmody, NBT of India.

7. Disaster Preparedness, Council for Advancement of Peoples Action and Rural Technology, D- Block, Ponkha Road Janakpuri, New Delhi, 110075.
8. Disaster in India studies of grim Reality, AnuKapur and Neeta Meena Deeplima, Roshani, Debhanjal, Rawat Publication, Jaipur.
9. Environmental Geography and Natural Hazards, A.A. Pirazizi Concept Publication Co., New Delhi, 110059.
10. Disaster in India: Studies of grim Reality, AnuKapur and Neeta Meena Deeplima ,Roshani, Debhanjal, Rawat Publication, Jaipur.
11. Practical Disaster Management: Col. P. P. Marathe; Diamond Publication, Pune.
12. Natural Disaster: Ahmad Husain; Sumit Enterprises, New Delhi.
13. <http://www.ignou.ac.in>, Post Graduate Diploma in Disaster Management (PGDDM).

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Poo FV J Puri

North Maharashtra University, Jalgaon

NEW SYLLABUS

T.Y.B.A. GEOGRAPHY

(With Effect from - June 2018)

Select any one Group of Courses mentioned below
General Level
SEM - V G3 - Agricultural Geography SEM - VI G3 - Industrial Geography
OR
SEM - V G3 - Population Geography SEM - VI G3 - Political Geography
Special Level
SEM - V S3 - Environmental Geography SEM - VI S3 - Remote Sensing and GIS
OR
SEM - V S3 - Geographical Thoughts SEM - VI S3 - Geography of Resources
SEM - V S4 - Practical Geography - Weather Map, Weather Instruments and Elements of Map Reading SEM - VI S4 - Practical Geography - Geo- Statistical Methods

Job Opportunity for B. A. Geography Students

Urban Planner or Community Development: – Geography is a natural tie-in with urban or city planning. City planner's work on zoning, land use, new developments, from a gas station renovation to the development of whole new sections of urban area. You'll work with individual property owners, developers and other officials. If you are interested in this area, be sure to take Urban Geography and Urban Planning classes. An internship with a city planning agency is essential experience for this type of work.

Cartographer: – For those with cartography courses backgrounds may enjoy work as a cartographer. The news media, book publishers, atlas publishers, government agencies and others are looking for cartographers to help produce maps. This would likely require relocation.

GIS Specialist: – City Governments, Country Agencies and other Government and Private Agencies or Groups are often in need of experienced GIS professionals. Coursework and internship in GIS are especially important. Computer programming or engineering skills are very helpful in this arena- the more about computers and languages you know, the better off you are.

Climatologist: – Agencies like National Weather Services, News Media, the Weather Forecasting Channels, and other Government Entities occasionally need Climatologist. Admittedly, these Jobs usually go to those with Meteorology Degrees, a Geographer with experience and vast coursework in Meteorology and Climatology would definitely be an asset.

Transportation Management: – Like Urban and City Planning, there are opportunities in local Government but regional transit authorities or shipping, logistics, and transportation companies look kindly to someone with transportation Geography in their background and good computer and analytical skills.

Environmental Management: – A plethora of Environmental Assessment, cleanup, and management companies exist throughout the world today. A Geographer brings excellent skills for project management and the development of reports like Environmental impact reports. It's often a wide-open field with tremendous growth opportunities.

Writer/Researcher: – Undoubtedly during your college years you have spent time developing your writing skills and certainly as Geography major you know how to research? How about a career as a writer – you could be a science writer or a travel writer for a magazine or newspaper. The About.comFreelanceWriting site provides information to help you get started.

Reference:

<http://geography.about.com/od/careersingeography/a/jobsgeography.htm>

Data Analyst – NewASDA879 review – Leeds

This is a fantastic entry-level role for a Geography or Business – related Graduate with a keen interest in GIS/Spatial data and a Positive attitude towards....

LLPG and GIS Officer – New Lancaster City Council 2 review- Lancashire

This role may also suit a recent geography graduate with exposure to GIS. The hours of work will be 18.5 Per Week, on Hours and Days to be agreed with your line.

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

T. Y. B. A. GEOGRAPHY (Old Syllabus & Courses) w. e. f. June - 2014	T. Y. B. A. GEOGRAPHY (New Syllabus & Courses) w. e. f. June - 2018
General Level	General Level
SEM – V G - 3 – Agricultural Geography SEM – VI G - 3 Industrial Geography	SEM – V G - 3 – Agricultural Geography SEM – VI G - 3 Industrial Geography
OR	OR
SEM – V G - 3 – Population Geography SEM – VI G- 3 – Political Geography	SEM – V G - 3 – Population Geography SEM – VI G- 3 – Political Geography
Special Level	Special Level
SEM – V S - 3 – Environmental Geography SEM – VI S- 3 – Remote Sensing & GIS	SEM – V S - 3 – Environmental Geography SEM – VI S- 3 – Remote Sensing & GIS
OR	OR
SEM – V S - 3 – Geographical Thoughts SEM – VI S- 3 – Geography of Resources	SEM – V S - 3 – Geographical Thoughts SEM – VI S- 3 – Geography of Resources
S 4 Annual Practical -----	SEM V S 4 - Practical Geography – Weather Maps , Weather Instruments and Elements of Map Reading SEM VI S 4 – Practical Geography - Geo- Statistical Methods

NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- V

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

G3 – AGRICULTURAL GEOGRAPHY

Objectives:

- To acquaint the students with fundamental aspects of Agricultural Geography
- To evaluate impact factors on agricultural activities in different parts of the world
- To ascertain the spatial concentration of agriculture phenomena.
- To study the techniques for the delimitation of agricultural regions.
- To aware the student about the problems of agriculture and suggest suitable strategies to enhance agricultural productivity.
- To acquire the knowledge of contributing aspects in the development of Indian Agriculture.

No.	Topic	Sub-Topic	Periods
1	Introduction to Agricultural Geography	A] Definition of Agricultural Geography B] Nature and Scope of Agricultural Geography C] Approaches to the study of Agricultural Geography i) Environmental Approach ii) Regional Approach iii) Commodity Approach iv) Behavioral Approach D] Types of Agriculture: i) Intensive Subsistence Agriculture ii) Plantation Agriculture iii) Mixed Farming iv) Shifting Cultivation	15
2	Factors Influencing Agriculture	A] Physical Factors: i) Topography ii) Slope iii) Climate iv) Soil B] Social and Economic Factors: i) Irrigation ii) Chemical Fertilizers iii) Biotechnology iv) Government Policies	15

		v) Land Ownership vi) Labour vii) Capital viii) Transportation ix) Marketing	
3	Tools of Agricultural Development	A) Means and Methods of Irrigation 1) Means of Irrigation: i) Canal ii) Tank iii) Dug and Bore Well 2) Methods of Irrigation i) Flood Irrigation ii) Drip Irrigation iii) Sprinkle Irrigation B) Modern Methods Used in Agriculture: i) Biotechnology ii) Organic Farming iii) Poly House and Shade Net iv) Tissue Culture v) Concept of Sustainable vi) Sustainable Agriculture	15
4	Problems of Agriculture	Problems of Agriculture i) Natural Calamities ii) Over Irrigation iii) Excess Use of Chemicals iv) Fertilizers v) Land Fragmentation vi) Soil Erosion vii) Lack of Capital viii) Availability of Market	15

Weightage of Marks		
Unit	Periods	Marks
1	15	15
2	15	15
3	15	15
4	15	15
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References:

English Medium –

- 1) Agriculture Geography: Jasbir Sing & S. S. Dhillon (1988), Tata McGraw Hill Publication, New Delhi.
- 2) The Economic of Agriculture System: Baylis Smith T. P. (1987), Cambridge University Press, London (UK).
- 3) Geography of Agricultural: Gregory H. P. (1970), Prentice Hall, New York.
- 4) Agricultural Geography: Terrent J. R. (1974), Wiley Publication, New York.
- 5) Agricultural Geography: Majid Husain (1996), Rawat Publication, New Delhi.
- 6) Agricultural Geography: Symons L. J. (1978), Bell & Hyman, London.
- 7) Fundamentals of Agricultural Geography: VijayaSmlimiche (2004), A. V. Publisher, Nashik

Marathi Medium –

- 1) Krishi Bhugol: Dr. Vitthal Gharpure, Pimpalapure Publishers, Nagpur.
 - 2) Krishi Bhugol: Dr. V. J. Patil, Prof. S. V. Dhake & DadasahebBhatewal, Prashant Publishers, Pune.
 - 3) Krishi Bhugol: Dr. V. J. Patil, Prof. S. V. Dhake & Dr. S. N. Bharambe, Prashant Publishers, Pune.
 - 4) Sugam Sheti Bhavidnyan: Prof. Suresh Date, Sanjivini Date, Narendra Prakashan, Pune.
 - 5) Bhartacha Krishi Bhugol: Dr. K. A. Khatib, Mehata Publishing House, Pune.
 - 6) Krishi Bhugol: Dr. D. S. Suryawanshi, Nirali Prakashan, Pune.
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NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- V

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

G3: POPULATION GEOGRAPHY

Objectives:

- 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.
- To understand the recent problems of population in the world as well as nation.
- To familiarize the students with different theories of population growth.

No.	Topic	Sub-Topic	Periods
1	Introduction (Nature, Scope of Population Geography and Population Data)	1. Definitions, Nature and Scope of Population Geography. 2. Need and Types of Population Data a) Primary data b) Secondary data 3. Sources of Population Data a) Census b) National Sample Survey 4. Problems related to collection and utilization of population data	12
2	Population Dynamics (Density, Distribution, Affecting Factors of Population and Population Composition)	1. Definition and Types of Density of Population : a) Arithmetic Density b) Agriculture Density c) Economic Density d) Critical Density 2. Distribution of Population: World & Indian Scenario. 3. Factors Affecting the Distribution of World Population: a) Physical Factors: Location, Topography, Climate, Soil, Water availability, Forest. b) Cultural Factors: Religion, Economic Development, Transportation, Govt. Policies,	16

		Agriculture and Political setup. 4. Population Composition: Age and Sex, Rural-Urban & Economic	
3	Demographic Attributes (Human Migration and Theories of Population Growth)	1. Definition and Classification, of Migration 2. Measures of Population, Fertility, Mobility and Mortality, Marital Status 3. Theories of Population a. Malthus: Population Theory b. Demographic Transition Model (DTM)	16
4	Population Policies from 2015 and Current Issues	1. Population Policies in the Context of Growth, Structure, Distribution & Quality Life 2. National Population Policies in India (from 2015) 3. Current Issues and Problems of Population in India: a. Decreasing Sex Ratio and its Impact on Society. b. Excess Urbanization and Pollution Problems. c. Brain Drain of Human Resource	16

Weightage of Marks		
Unit	Periods	Marks
1	12	12
2	16	16
3	16	16
4	16	16
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

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, M C.
 - 3) Majid Husain (1991): Anmol Publication Ltd. New Delhi
 - 4) R. K. Tripathi (2008): Commonwealth Publication, New Delhi
 - 5) Sawant, S. B. and Athavale A. S.(1994): 'Population Geography', Mehta Publishing House, Pune
 - 6) V. J. Patil & S. V. Dhake: LoksankhyaBhugol (Marathi), PrashantPablication, Jalgaon
 - 7) Ahirrao, Alizad and Others: LoksankhyaBhugol (Marathi):
 - 8) V. T. Gharpure: LoksankhyaBhugol (Marathi) Pimpalpure Publication, Satara
 - 9) T. N. Gholap Nishikant: LoksankhyaBhugol(Marathi), Prakashan Pune.
 - 10)A. B. Savadhi: Loksankhya Bhugol (Marathi), The Savadis Megha Geographical Series.
-

NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- V

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

S – 3 : ENVIRONMENTAL GEOGRAPHY

Objectives:-

- To create the environmental awareness amongst the students.
- To acquaint students with fundamental concepts of Environment.
- To understand various Environmental phenomena.
- To aware about the importance of biodiversity and threats to it.
- To study the emerging Environmental Issues.
- To acquire the knowledge of Conservation of Resources.

Unit	Topic	Sub-Topic	Period
1	Introduction to Environmental Geography	<p>A) Environment: i) Meaning and Concept. ii) Types – Natural and Cultural. iii) Man and Environment Relationship.</p> <p>B) Definition, Nature, (Comprehensive, Scientific, Interdisciplinary and Dynamic) and Scope of Environmental Geography.</p> <p>C) Approaches to the study Environmental Geography: i) Environmental Deterministic. ii) Possibilistic. iii) Economic Deterministic. iv) Ecological</p>	12
2	Ecosystem	<p>A) Meaning and concept of Ecosystem</p> <p>B) Cardinal Principles of Ecosystem i) Structure-Components : Abiotic & Biotic ii) Nutrient Cycling in Ecosystem a) Carbon Cycle b) Nitrogen Cycle iii) Energy Flow in Ecosystem: a) Food Chain. b) Food Web.</p> <p>C) Ecological Pyramids i) Population ii) Biomass iii) Energy</p> <p>D) Types of Ecosystem i) Forest ii) Desert iii) Marine</p>	16

3	Biodiversity and its Conservation	<p>A) Introduction – i) Definition and types (genetic, species and ecosystem diversity). ii) Bio geographical classification of India iii) Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values iv) Biodiversity at global, National and local levels. vi) India as a mega-diversity nation vii) Hot-spots of biodiversity in India. B)i) Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts. ii) Endangered and endemic species of India iii) Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.</p>	16
4	Environmental Issues and Conservation of Resources	<p>A) Causes and Adverse Effects of the following Environmental Issues: i) Greenhouse effect. ii) Depletion of Ozone. iii) Global Warming. iv) Acid Rain B) Conservation of Resources i) Meaning and Concept. ii) Need of Conservation of Resources iii) Methods of Conservation of the following Resources: a) Soil , b) Water, c) Forest d) Wild Life</p>	16

Weightage of Marks		
Unit	Periods	Marks
1	12	10
2	16	18
3	16	18
4	16	14
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References:

English Medium:

- 1) Ahirrao and Alizad: "Environmental Science", Nirali Publishing House, Pune.
- 2) Savindra Singh (1997): "Environmental Geography", Prayag Pustak Bhawan, Alahabad.
- 3) H. M Saxena: "Environmental Studies", Rawat Publication, Jaipur & New Delhi.
- 4) Girish Chopra (2006): "Environmental Geography", Commonwealth, New Delhi.
- 5) Rajagopalan, R. (2013): "Environmental Studies", Oxford University Press, New Delhi.
- 6) Fr. S. Ignacimuthu, (2012): "Environmental Studies", MJP Publishers, Chennai.
- 7) Bhattacharya, K. G., Sarma, Arunimma (2015): "Comprehensive Environmental Studies", Narosa Publishing House Pvt. Ltd. New Delhi.
- 8) P. K. Patil, M. S. Pawar, P. D. Patil, P. R. Torawane, (2016): "Environmental Geography", North Message Publication Pvt. Ltd. Pune.

Marathi Medium:

१. ढाके, एस. व्ही., इंगळे, पाटील, व्ही. जे. : पर्यावरणशास्त्र, प्रशांतप्रकाशन, जळगांव
 २. चौधरी, एस. आर. : पर्यावरणअभ्यास, हिमालया प्रकाशन, मुंबई
 ३. पाटील, वाय. व्ही., वाघ, एस. ए., सोनवणे, एस. बी. : पर्यावरण अभ्यास, अथर्वप्रकाशन, जळगांव
 ४. कुळकर्णी, दीक्षीत, सोंडगे, डिसले : पर्यावरणशास्त्र, विद्याबुकप्रकाशन, औरंगाबाद
 ५. उमाठेरमेश, ठाकरेरेखा : पर्यावरणशास्त्र, विसाबुकप्रकाशन, नागपूर
 ६. चौधरी, ए. पी., चौधरी : संपूर्णपर्यावरणशास्त्र, प्रशांतप्रकाशन, जळगांव
 ७. घोडसे, एस. बी., पवार, आर. के., वाघ, शैलेश, सुर्यवशी, एस. एस.: "पर्यावरण अभ्यास", नॉर्थ मॅसेज पब्लीकेशन, पुणे
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NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- V

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

S – 3 : GEOGRAPHICAL THOUGHTS

Objectives:

- To introduce students to the philosophical and methodology foundations of the subject and its place in the world of knowledge.
- To know the brief ideas about geography in the ancient period of Greek, Roman, Arab & Indian.
- To understand the modern geography contributed by different geographers.
- To understand how a modern geographical concepts & ideas achieved in geography.

No.	Topic	Sub-Topics	Periods
1	History of Geographical Thoughts	Contribution of Geographers: 1. Indian - Aryabhatta, Varahamihira, Brahamgupta and Bhaskarachrya 2. Greek Geographers- Homer, Thales, Anaximender, Hecatus, Herodotus, Aristotle, Alexander, Erasthennis, Hipparcus. 3. Roman Geographers- Strabo, Ptolemy 4. Arab Geographers- IbnHaqwal, IbnBatuta, IbnKhalidun, Al Idrisi, Al Biruni, Al Masudi 5. Dark Age in Europe	16
2	Exploration and Discoveries	The Impact of Exploration and Discoveries 1. Marco Polo 2. Christopher Columbus 3. Vasco da Gama 4. Captain James Cook 5. Immanuel Kant	12
3	Modern Geographers & Dualism in Geography	A) Contribution of Modern Geographers- 1. Alexander Von Homboldt 2. Fredrich Ratzel 3. Vidal-de-La-Blache 4. Grifith Taylor B) Dualism/ Dichotomies in Geography 1. Physical Geography vs Human Geography 2. General Geography vs Regional Geography 3. Determinism vsPossibilism	20

4	Conceptual Development	<ol style="list-style-type: none"> 1. Quantitative Revolution – Concept, merits and demerits 2. Spatial Organization 3. Areal Differentiation 4. Region – Concept, Classification of Regions based on Physical and Cultural characteristics 	12
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Weightage of Marks		
Unit	Periods	Marks
1	16	20
2	12	10
3	20	20
4	12	10
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References:

- 1) Adhikari, Sudeeptha (1972): Fundamentals of geographical Thought, Chaitanya Publishing House, Allahabad.
- 2) Dixit, R. D. (1999) : Developmeht of geographical Thought , Longman India Limited
- 3) Dohrs, F.E.andSommers, L.W. (ed) (1967) : Introduction to Geography, Thomas y. crowell co, Newyork.
- 4) Free Man, T.W, (1965) : Geography as Socical Science, Harper International Edition, Harper & Row Publishers, New York.
- 5) Hussian, Majid (2015- 6th Edn): Evolution of Geographical Thought, Rawat Publication, Jaipur and New Delhi
- 6) Dr. Sawant,Prakash (1999) Thought and Concepts in Geography, PhadakePrakashan, Kolhapur
- 7) James, P.E.(1980) All possible Worlds: A History of Geographical ideas, Sachin Publication Jaipur (Indian Reprint)
- 8) डॉ. सूर्यवंशी, डी. एस.(२०१७) : भौगोलिक विचारधारा, प्रशांत पब्लिकेशन्स, जळगाव
- 9) सवदी, कोळेकर : भौगोलिक विचार प्रणालीचा विकास
- 10) सवदी, कोळेकर : आधुनिक भूगोल- स्पर्धा परीक्षा, निराली प्रकाशन, पुणे.
- 11) खतीब, के.ए. : भूविज्ञान विकास, संजोग प्रकाशन, कोल्हापूर.

- 12) डॉ. वेळापूरकर, बी.जी. व इतर : भौगोलिक विचारधारा, संध्या प्रकाशन, उदगीर.
 - 13) डॉ. माजिद हुसैन (अनुवाद-पारधी, मा. कृ.): भूगोलशास्त्र- विचार व विकास, के. सागर पब्लिकेशन्स, पुणे.
 - 14) पंडित, सुरेखा : भूगोलातील विचारवंत, साईनाथ पब्लिकेशन्स, नागपूर
 - 15) धारपुरे, वि. त्र्य. : भूगोलशास्त्र विचार व संकल्पना, पिंपळापुरे प्रकाशन, नागपूर.
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NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- V

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

S4 – PRACTICAL GEOGRAPHY

WEATHER MAPS, WEATHER INSTRUMENTS AND ELEMENTS OF MAP READING.

Workload : - 06 Periods per week of per batch of 12 students.

No.	Topic	Sub-Topic	Periods
1	Weather Maps	<p>A) Sings and Symbols i) Introduction to I.M.D. Weather map ii) Study and drawing of sings and symbols used in the I.M.D. weather map.</p> <p>B) Isobaric Pattern i) Cyclone ii) Anti-Cyclone iii) Trough of Low pressure iv) Wedge/ridge v) Col vi) Secondary depression.</p> <p>C) Weather map's - Study and Interpretation of weather map of following three seasons. i) The season of South-west monsoon ii) The cold season iii) The summer season</p>	20
2	Weather Instruments	<p>Study and Drawing the following weather instruments with their mechanism, function and uses.</p> <p>i) Maximum and Minimum Thermometer ii) Dry and wet bulb Thermometer iii) Barograph iv) Rain gauge v) Cup anemometer</p>	10
3	Elements of Map Reading	<p>A) Arrangement of Toposheet on map of India i) Index Number</p> <p>B) Marginal information and Grid references i) Meaning and description of marginal information ii) Grid reference : Four and six figure Study and Drawing of sign and symbol used by survey of India</p>	8

4	Interpretation of SOI Toposheets and Drawing of profiles	<p>A) Map Interpretation: Interpretation of four S.O.I. Toposheet one each from.</p> <p>i) Mountainous region/ hilly ii) Plain region iii) Plateau region iv) Desert region</p> <p>(Point : Marginal Information Physiography, Drainage pattern, Vegetation, Settlement, Transportation and communication, Occupation)</p> <p>B) Profiles: - Driving of longitudinal profile, cross profile with the help of contour map and Toposheet.</p>	22
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Weightage of Marks		
Unit	Periods	Marks
1	20	18
2	10	07
3	08	05
4	22	20
Journal & Oral	--	10
Total	60	--
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References:

- 1) ArjunKumbhar – PratyakshikBhugol, Sumeru Prakashan, Dombivali.
- 2) D. Y. Ahirrao, E. K. Karanjkehele – Pratyakshik Bhugol, Sudhershnan Prakashan, Nashik.
- 3) Jamkar, V. M. Deshmukh – Geographical Interpretation of Indian Topographical map.
- 4) Gopal Singh – Map work and Practical geography, Vikas Publication house, New Delhi.
- 5) R. P. Mishra and A. Ramesh – Fundamental of Geography, Concept publication, New Delhi.
- 6) R. L. Singh and Kanauja – Map work and practical geography, central book depo, Alahabad.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- VI

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

G3: POLITICAL GEOGRAPHY

Objectives:

- To acquaint the students with conceptual framework of Geo- Political issues and assessment of Indian position in the emerging geo-political situation

No.	Topic	Sub-Topic	Periods
1	Introduction to Political Geography	i. Definition of Political Geography. ii. History and Development of Political Geography. iii. Nature and Scope of Political Geography iv. Elements of Political Geography. (a) Physical Elements : Relief, Climate, Seas and Ocean. (b) Economic Elements : Mineral and power Resources, Trade and Transport	16
2	Evolution of State and Nation	i. Concept of State. ii. Centrifugal and Centripetal Forces in the State. iii. Factors of the State : (a) Physical Factors: Location , Relief , Climate , Shape and Size (b) Cultural Factors : Population, Religion, Human Race, Languages and Government. iv. Concept of Nation. v. Difference between State and Nation	16
3	Geopolitics	i. Origin and Concept of Geopolitics. ii. Theories regarding global Geo-Strategic Views: (a) Mackinder's Heartland Theory. (b) Spykman Rimland Theory. Iii Geo- Political Significance of Indian Ocean. Iv. Geo- Political Issues of India. (a) Kashmir Problem (b) Cauveri River Water Dispute.	16
		i. Definition of Frontiers and Boundaries. ii. Distinctions Between Frontiers and	

4	Frontiers and Boundaries	Boundaries. i. Morphological and Genetic Classification of Boundaries. iii. Boundaries of India	12
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Weightage of Marks		
Unit	Periods	Marks
1	16	14
2	16	16
3	16	16
4	12	14
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

Reference Books: -

- 1) Dr. Patil V. J. and Prof. Dhake S. V. (2015): Political Geography (Marathi Version), Prashant Publication, Jalgaon.
- 2) Dr. Bhaise Sanjay and Dr. Maski Devendra (2015): Political Geography (Marathi Version), Atharva Publication, Jalgaon.
- 3) Latkar S. R. (2009): Political Geography (Marathi Version), Vidya Prakashan, Nagpur.
- 4) Bhagwat A. V. (1986): Political Geography (Marathi Version), Narendra Prakashan, Pune2.
- 5) Dwivedi R. L. (1997): Fundamental of Political Geography (English Version), Chaitanya Publishing House, Alahabad.
- 6) Adhikari Sudepta (1997): Political Geography (English Version), Rawat Publication, New Delhi.
- 7) Dr. Magar Jaykumar: Political Geography (Marathi Version), Vidya Prakashan, Nagpur.
- 8) Gulve M. N: Political Geo-science (Marathi Version), Kailash Publication, Aurangabad.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

T.Y.B.A. SEMESTER- VI

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

G3: INDUSTRIAL GEOGRAPHY

Objectives:

- To introduce the nature, development and significance of manufacturing industries and its links with the world economy.
- To understand the role of industries in the economic development of India.
- To understand the location of major manufacturing activities with the support of various industrial location theories and models.
- To discuss problems and impact of manufacturing industries with respect to relocation, environmental pollution and occupational health and industrial hazards.

No.	Unit	Sub Unit	Periods
1	Introduction to Industrial Geography	1) Meaning, Nature and Scope of Industrial Geography 2) Industrial Development of Pre-independence and recent period.	10
2	Location of Industries	1) Factors affecting location of industries- a) Primary- Land, Water, Climate, Raw material, Power, Labour, Transportation and communication and Market. b) Secondary-Capital, Government Policy, Infrastructure facilities. 2) Theories of Industrial Location - a) Alfred Weber b) August Losch c) Critical review and Application of Industrial Location Theories.	14

3	World Distribution of selected Industries and Industrial Regions	<p>1) Iron & Steel Industry-USA and India.</p> <p>2) Cotton textile Industry - Japan and India.</p> <p>3) Automobile Industry - USA, Japan and India.</p> <p>4) IT and Engineering Industries in India.</p> <p>5) Major Industrial regions in-</p> <p style="padding-left: 20px;">a) USA b) Japan and c) India.</p>	20
4	Industrial pollution and Environmental Degradation, Issues and impact	<p>1) Environmental Pollution.</p> <p>Pollution of Air, Water, Solid waste and Noise due to selected industries</p> <p style="padding-left: 40px;">a) Paper and pulp industries</p> <p style="padding-left: 40px;">b) Sugar industries.</p> <p style="padding-left: 40px;">c) Cement industries.</p> <p style="padding-left: 40px;">d) Chemical industries.</p> <p>2) Impact on Human animal and natural vegetation.</p> <p>3) Issues and impact due to industrialization.</p> <p style="padding-left: 40px;">a) Migration and population increase.</p> <p style="padding-left: 40px;">b) Expansion of urban centers.</p> <p style="padding-left: 40px;">c) Dumping of solid waste.</p> <p style="padding-left: 40px;">d) Social problems.</p> <p style="padding-left: 40px;">e) Impact on Transportation and communication.</p>	16

Weightage of Marks		
Unit	Periods	Marks
1	10	10
2	14	14
3	20	20
4	16	16
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References: -

- 1) Alexander, J. W. Economic Geography, Prentice Hall, Englewood Cliffs, 1988.
 - 2) Alexanderson, C.: Geography of Manufacturing, Prentice Hall, Bombay, 1967.
 - 3) Chaudhari, A. P. Industrial Geography, Prashant Publication, Jalgaon, 2011.
 - 4) Hoover, E. M. : The Location and Space Economy, McGraw Hill, New York 1948.
 - 5) Isard, W.: Methods of Regional Analysis, the Technology Press of M.I.T. & John Wiley & Sons, New York 1956.
 - 6) Miller, E.: Geography of Manufacturing, Prentice Hall, Englewood Cliffs, New Jersey, 1962.
 - 7) Weber, Alfred, Theory of Location of Industries, Chicago University Press, Chicago, 1957.
 - 8) Goh Cheng Leong (1997). "Human and economic geography", Oxford University Press, New York.
 - 9) Truman, A. Harishorn, John W. Alexander (2000) "Economic Geography", Prentice Hall of India Ltd., New Delhi.
 - 10) Thoman, R.S., Conkling E.C. and Yeates, M.H. (1968). Geography of Economic Activity, McGraw Hill Book Company, 1968.
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NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- VI

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

S - 3: REMOTE SENSING & GEOGRAPHICAL INFORMATION SYSTEM

Objectives:-

- The objective of this course to Understanding of principles of remote sensing techniques.
- To know reflectance spectra in relation to features in spectra of minerals, water, vegetation and atmospheric targets.
- Understand the processing and enhancement of satellite images.
- To understand how a modern geographical concepts changing with remote sensing.

No.	Topic	Sub-topic	Periods
1	Concepts of Remote Sensing	A) Introduction, Definition, Nature and Scope. B) Stages of Remote Sensing data acquisition. C) Process of Remote Sensing data analysis. D) Applications of Remote Sensing.	15
2	Type of Remote Sensing	A) Introduction Active and passive remote Sensing. B) Electromagnetic energy- Electromagnetic spectrum, Radiation Principal's; EMR interaction with Atmosphere- scattering, Absorption and Atmospheric Windows; EMR interaction with earth surface features- reflection, absorption, emission and transmission.	15
3	Remote Sensing Platforms and	A) Platforms – Types and their characteristics. B) Satellites and their characteristics – Geo-stationary and sun-synchronous; Earth Resources Satellites-LANDSAT, SPOT, IRS,	15

	Sensors	IKONOS, QUICKBIRD satellite series; Meteorological satellites – INSAT, NOAA, GOES C) Sensors – Types and their characteristics, Across track (whiskbroom) and Along track (push broom) scanning; Optical mechanical scanners- MSS, TM, LISS, WiFS, PAN.	
4	Introduction to GIS	A) Introduction, Definition, Nature and Significance of GIS. B) Historical development of GIS. C) Components of GIS. D) Application of GIS in different fields.	15

Weightage of Marks		
Unit	Periods	Marks
1	15	15
2	15	15
3	15	15
4	15	15
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References:

English Medium -

- 1) Jensen, J.R. 2000, Remote Sensing of the Environment: An Earth resource Perspective. Prentice Hall.
- 2) Joseph George, 2003, Fundamentals of remote sensing. Universities Press
- 3) Lillesand, T.M., and Kieffer, R.M., 1987, Remote Sensing and Image Interpretation, John Wiley.
- 4) Sabbins, F.F., 1985, Remote sensing Principles and interpretation. W.H.Freeman&company

- 5) 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) "Bhugolic Mahiti Pranali" Diamond Publication Pune.
 - 2) Dr. Shrikant Karlekar (2007) "Dursavedan" Diamond Publication Pune.
 - 3) Dr. D. S. Suryawanshi (2018) "Geoinformatics" Prashant Publications, Jalgaon.
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NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- VI

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

S3 – GEOGRAPHY OF RESOURCES

Objectives:

- To acquaint with the fundamental concept of resources.
- To aware students the about problems and utilization of resources.
- To understand about conservation of resources for sustainable development of our nation.
- To acquire the knowledge of importance and conservation of resources.

Unit	Topic	Sub- Topic	Periods
1	Introduction to Resource Geography	a) Meaning, Concept, Nature & Scope of Resources Geography. b) Importance of Resources Geography. c) Components of Resources - Natural and Human.	10
2	Classification of Resources	a) Renewable and Non - Renewable resources. b) Biotic and Abiotic Resources.	10
3	Resources	A) Water Resources: a) Sources of Surface and Ground Water b) Distribution of Surface and Ground Water. c) Interlinking of River Project in India. B) Forest Resources a) Environmental Significance of Forests. b) Meaning, Causes and Effects of deforestation. c) Conservation of Forest Resources. C) Land Resources: a) Importance of Land Resources. b) Use of Land Resources: Agriculture, Forest, Mining, Settlements & Other. c) Land Degradation and Causes. d) Methods of Conservation of Land Resources. D) Energy Resources: a) Distribution and Production of Coal, Petroleum and Natural gas in India. b) Energy Generation power plants – i) Wind – Kanyakumari, Nandurbar. ii) Nuclear – Kakrapara, Tarapur. c) Significance and Utilization - Solar, Wind & Nuclear Energy Resources in India.	25
4		A) Human Resources: a) Concept and Meaning of Human	15

	Human Resources and Planning of Resources	Resource, b) Scope of Human Resource, c) Changing Role of Human Resource in India, d) Function of Human Resource Management.	
		B) Planning of Resources: a) Concept of Resource Planning. b) Need of Resource Planning. c) Resources Planning in India d) Resources and Economic Development in India.	
		Total	60

Weightage of Marks		
Unit	Periods	Marks
1	10	10
2	10	10
3	25	25
4	15	15
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References:

- 1) Negi, B.S. (1997): "Geography of Resources", KedarnathRamnath, Meerut.
- 2) Ray, S. (2008): "National Resources, Organization and Technology Linkages".
- 3) Skinner, B. J. (1969): "Earth Resources", Prentice Hall, Englewood Cliffs, N.J.
- 4) Ramesh, A: Resources Geography.
- 5) Maharashtra Development Annual Report.
- 6) Dr.Vitthal Gharpure: "Sadhansampatti Bhugol", Pimpalpure and Company Publishers, Nagpur.
- 7) Prof. D. V. Patil and Sau JayashriPatil: "Sadhansampatti Bhugol.
- 8) D. R. Khullar (2017) - India - A comprehensive Geography, Kalyani Publishers, New Delhi.
- 9) Central Ground Water Board - <http://www.cgwb.gov.in/>
- 10) Ground Surveys and Development Agency - <https://gsda.maharashtra.gov.in/>

NORTH MAHARASHTRA UNIVERSITY, JALGAON

T. Y. B. A. SEMESTER- VI

New Syllabus (60+40 Pattern)

(with effect from: June 2018)

S4 – PRACTICAL GEOGRAPHY – GEO-STATISTICAL METHODS

WORKLOAD – 06 Periods per week of per batch of 12 students.

Objectives: -

- To learn concepts and tools for working with data.
- To impart the ability to perform data management and analysis.
- To acquire skill of statistical reasoning and inferential methods.
- To learn the ability to describe, interpret and exploratory analysis of data by graphical and other means.

Unit No.	Topic	Sub-Topic	Periods
1	Introduction to Statistics	1.1 Meaning of Statistics 1.2 Significance of Statistical Methods in Geography 1.3 Sampling: Purposive, Random, Systematic and Stratified. 1.4 Sources of Data 1.4.1 PrimaryData 1.4.2 Secondary Data 1.5 Variable 1.6 Frequency distribution 1.6.1Histogram 1.6.2 Frequency Polygon 1.6.3 Ogive curve or Cumulative Frequency curve	14
2	Measures of Central Tendency and Dispersion	2.1 Measures of Central Tendency 2.1.1 Mean 2.1.2 Median 2.1.3 Mode 2.1.4 Quartile 2.2 Measures of Dispersion 2.2.1 Mean Deviation 2.2.2 Standard Deviation 2.2.3 Quartile Deviation	18

		2.2.4 Coefficient of Variation	
3	Correlation, Regression and Tests	3.1 Correlation and Regression 3.2.1 Spearman's Method 3.2.2 Karl Pearson's Method 3.2.3 Simple regression equation 3.2 Introduction to the Tests 3.3 Parametric and Non-Parametric Tests 3.2.1 Students ' t' test 3.2.2 Chi - square test / χ^2 test	22
4	Excursion / Village Survey / Project Report	Visit to a places of Geographic interest OR Village Survey OR Project Report. (Submission of its report. This report should be at least 12 pages)	6

Weightage of Marks		
Unit	Periods	Marks
1	14	12
2	18	20
3	22	18
4	06	10
Journal & Oral Excursion / Village Survey / Project Report	--	10
Total	60	--
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

References: -

- 1) Gupta and Kapoor (2007) Fundamentals of Statistics, Sultan Chand and Sons.
 - 2) Pal S. K. (1998) Statistics for Geoscientists, Tata McGraw Hill, New Delhi.
 - 3) Negi B. S. (1993) Statistical Geography, Kedarnath Ramnath Co., Meerut
 - 4) सु.रा.जोग ,व प्र.ग.सप्तर्षी: सांख्यिकी भूगोल
 - 5) डॉ.अर्जुन कुंभार : प्रात्यक्षिक भूगोल , सुमेरू प्रकाशन ,डोंबिवली ,मुंबई.
 - 6) अहिरराव डी.वाय ,.करंजखेले ई.के.:प्रात्यक्षिक भूगोल, , सुदर्शन प्रकाशन ,नाशिक.
 - 7) अहिरराव व्ही.आर ,.अलीझाड एस.एस : .नकाशाशास्त्र आणि सांख्यिकी भूगोल
 - 8) खट्याळ बी.जी :.सांख्यिकी पद्धती ,प्रशांत प्रकाशन ,जळगाव.
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**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
III Credits: 18 (07 Papers)	Compulsory English (Credits 03) MIL 1 (Credits 03) DSC1 C (Credits 02)** DSC 2 C (Credits 02)**	-----	SEC 1 (Credits 02)	DSE 1 A (Credits 03) DSE 2 A (Credits 03)	-----
IV Credits: 20 (08 Papers)	Compulsory English (Credits 03) MIL 2 (Credits 03) DSC 1 D (Credits 02)** DSC 2 D (Credits 02)** DSC3 D (Credits 02)*	-----	SEC 2 (Credits 02)	DSE 1 B (Credits 03) DSE 2 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 OR Gg: 211(B) – Sem. III - G2: Geography of Resources	Gg. 231 (DSC) Sem. III General Cartography
Gg: 221(A) - Sem. IV - G2: Economic Geography OR 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 OR 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 OR 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>

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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>A) Representation of Data: Symbols, dots, Choropleth, Isopleths and Flow Diagram.</p> <p>B) Practical Component <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">1. Reading of Map Scale2. Actual measurements of land as per scale3. Draw a simple graphical Scale4. Map labeling5. Draw the major parallels of latitudes on the world map6. Draw the major meridians of longitudes on the world map7. Draw the great circle on the map8. Prepare a one air route on a world map9. Filling the major city/canal/capital on the world map10. Draw the weather symbols11. Prepare star diagram12. Draw the cylindrical equal area projection13. Draw the combined line and bar graph14. Construct the conical projection15. Interpretation of thematic map16. Analyzed of weather data17. Criteria of forecasting of weather	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		
III	Maps & Scale	(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
IV	Map Projection	(A) Introduction (i) Definition of map & globe (ii) Definition of map projection (B) Classification of map projection (according to constructional approach) (i) Perspective projection (ii) Non- perspective projection (C) Criteria for choice of following projections a) Developable Surface b) Source of Light c) Position of Developable Surface Projections i, Zenithal Gnomonic projection ii, Zenithal stereographic projection iii, Cylindrical equal area Projection iv, Conical Projection with one standard parallel v, Bonne's projection (D) Properties and Uses of following projection 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
Total			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

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.)	60
College Assessment (C.A.) (Internal Practical Test Exam)	40

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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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	Practical Component	<p>Practical Component <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"> 1. Calculate child women ratio of the District/Tahsil/Village. 2. Age Sex pyramid 3. Dependency ratio 4. Population growth rate 5. Density of population 6. Fertility rate 7. Mortality rate 8. Study of settlement of any region (Size, Location, Work etc.) 9. Study of health facilities of tribal people 10. Study of mode of life of local tribes 11. Distribution of population 12. Occupational structure 13. Educational structure 14. Socio-economic condition of local area 15. Economic status according to income 	30	
2	Introduction to Human Geography	<ol style="list-style-type: none"> 1. Definitions, Nature and Scope of Human Geography. 2. Branches of Human Geography 3. Determinism and Possibilism 4. Stop and Go Determinism 	05	15
3	The Race of Mankind, Religion and Language	<ol style="list-style-type: none"> 1. Meaning and definition of race 2. Physical basis of racial groups 3. Classification of World Races (Caucasoid, Mongoloid, Negroid, Australoid) 4. Ethnic groups in India. 5. Major religion in the world and their distribution 6. Major languages in India (Hindi, Marathi, Gujrathi and Tamil) 	05	25

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

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.)	60
College Assessment (C.A.) (Internal Practical Test Exam)	40

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

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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>(A) Introduction to Tourism Geography</p> <p>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) Factors affecting on Tourism.</p> <p>1) Physical –</p> <p>i) Relief, Beaches, Waterfall, Mountain & Hot – spring ii) Climate – Hill station, Health resort iii) Vegetation – National park, Sanctuaries</p> <p>2) Cultural –</p> <p>i) Religious and pilgrim centres ii) Historical monuments iii) Archaeological sites.</p> <p>3) Economic –</p> <p>i) Accommodation ii) Transportation</p>	12	16

2	Recent Trends and Types of Tourism	A) Regional Tourism; i) Domestic- (India) a) Geographical (Hill Station)- Darjeeling b) Historical- Ajanta c) Educational- Kolkata & Pune d) Beaches- Goa ii) Eco-tourism –Sanctuaries, Forts Capital & historical places and national park (M.P., Gujarat & Maharashtra) iii) Sustainable Tourism - Agro tourism, heritage tourism & Adventure tourism B) Role of MICE (Meetings, Incentives, Conventions and Exhibitions) in Tourism C)Types of Tourism: Cultural Tourism, Medical Tourism, Pilgrimage & Eco tourism	10	16
3	Impact of Tourism	A) Economy – i) Employment ii) Increased trade iii) Inflation of land values iv) Increased revenue v) Effect of foreign exchange B) Society – i) Regional language ii) Cultural change iii) Crime & gambling iv) Establish new colonies C) Environment – i) Land ii) water iii) Noise iv) Air	12	14
4	Tourism in India	A) National tourism policy in India B) Infrastructure & support system for tourism C)Tourism development in Konkan region D)Tourism development in Khandesh region: 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
University Exam	60	-
Internal examination	40	-

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
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).
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 pimpalapur 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

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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	A) Introduction: i) Location, extent and Geographical area ii) Administrative divisions of India iii) Adjoining countries B) Physiography: 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 C) Drainage: i) Drainage system (a) Himalayan Drainage system (b) Peninsular Drainage system	10	14
2	Climate, Soils and Natural Vegetation	A) Climate i) Characteristics of climate ii) Factors affecting on climate iii) Seasons and rainfall distribution B) Soils: i) Major soil types in India ii) Soil Erosion and conservation in India C) Vegetation: i) Major Types and Distribution of natural vegetation ii) Economic importance of forest	12	16
3	Population and Agriculture	A) Population: 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) Agriculture: i) Study of geographical condition, Production and distribution of following crops: a) Rice b) Cotton ii) Agro-climatic Regions of India		
4	Resources and Industries	A) Mineral and Power Resources: Production and distribution of following resources: i) Iron ore ii) Bauxite iii) Coal iv) Hydel Power B) Industries: 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) *Sinngh Jasbir, "An Agricultural Atlas of India: A Geographical Analysis". Tata MacGraw Hill Education.*
- 12) *Sinha B.N., "Industrial Geography of India.*

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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
	Total Marks	100

Internal Practical Test Exam.

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

Total : 40 Marks

References Books

- Dent B. D., 1999: Cartography: Thematic Map Design, (Vol. 1), McGraw Hill.
- 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.
- Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers.
- Singh R. L. 1979: Elements of Practical Geography, Kalyani publishers, New DelhiPublishers
- Singh R. L., 1998: Prayogic Bhoogol Rooprekha, Kalyani Publications.
- Sharma J. P., 2010: PrayogicBhugolRastogiPublishers,Meerut.
8. Singh R.L.and Singh R.P.B., 1999: Elements of Practical Geography, Kalyani Publishers.
- Singh RL&Rana PB Singh (1991)Prayogtmak Bhugol ke Mool Tatva, Kalyani Publishers, New Delhi
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- Kennedy, M., Kopp, S. 2001. Understanding Map Projections, Esri Press.
- Kimerling, A.J., Buckley, A.R., Muehrcke, P.C., Muehrcke, J.O. 2011. Map Use: Reading, Analysis, Interpretation, 7th ed, Esri Press.
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- Geore p. Kellaway 1979: Map Projection B.I.Publicationsnew Delhi
- Pearson II, F. 1990. Map Projections: Theory and Applications 2nd ed, CRC Press.
- Robinson, A.H., Morrison, J.L., Phillip, C.M., Kimerling, A.J., Guptill, S.C. 1995. Elements of Cartography, 6th ed, JohnWiley.
- Robinson A.H., 2009: Elements of Cartography, John Wiley and Sons, New York.

19. Sarkar, A. 2015. Practical Geography: A Systematic Approach, 3rd ed, Orient Blackswan Private Ltd.
20. Singh, R.L., Singh, R.P.B. 2008. Elements of Practical Geography, Kalyani Publishers.
21. Anson R. and Ormelling F.J., 1994: International Cartographic Association: Basic Cartographic Vol. Pregmen Press.
22. Gupta K.K. and Tyagi, V. C., 1992: Working with Map, Survey of India, DST, New Delhi.
23. Rhind D.W. and Taylor D.R. F., (eds.), 1989: Cartography: Past, Present and Future, Elsevier, International Cartographic Association.

Websites

- a) Geological Survey of India: www.gsi.gov.in
- b) Indian National Cartographic Association: www.incaindia.org
- c) Indian Naval Hydrographic Department: www.hydrobharat.nic.in
- d) National Bureau of Soil Survey and Land Use planning: www.nbsslup.in
- e) Survey of India: 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	A) Introduction to Surveying: Definitions B) Basic principles of surveying. C) Types of Survey: a) Plane Survey b) Geodetic Survey D) Classification of Survey: a) According to purpose: 1) Topographical 2) Cadastral 3) Geodetic 4) Engineering 5) Railway 6) Military b) According to instruments used: 1) Chain or Tape Survey 2) Compass Survey 3) Levelling Survey 4) Theodolite Survey E) Various Methods of deciding North direction: True, Magnetic and Grid North.	30

2.	Plane Table Survey	A) Plane Table Survey. B) Necessary Equipments of Plane Table Survey: 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. C) Methods of Plane Table Survey: 1) Radiation Method 2) Intersection Method D) Advantages and Disadvantages of Plane Table Survey. E) At Least Experiment of Actual Measurement of Piece of Land or Ground.	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
Total	60

University Assessment (U.A)	60
College Assessment (C.A)	40
Total Marks	100

Internal Practical Test Exam.

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

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
7. Singh, R.L. and Singh, R.P.B. (1997): Elements of Practical Geography, Kalyani Publishers, New Delhi.
8. Sing, R.L.& Kanaujia L.R.S.(1963): Map Work and Practical Geography, Allahabad Central Book Depot
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. Karanjkhale, (2002) : Pratyakshik Bhugol, Sudarshan – Nashik
11. Dr. P. G. Saptarshi and Dr. S. R. Jog, Statistical Methods.
12. T. P. Kanetkar and S. V. Kulkarni, (1986) : Surveying and Leveling, Pune Vidyarthi Griha Prakashan – Pune
13. डॉ. अर्जुन कुंभार – प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोंबिवली.
14. डॉ. अहिरराव, करंजखेले (2002) – प्रात्यक्षिक भूगोल, सुदर्शन प्रकाशन, नाशिक.

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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

4	Regional Planning and Development in India	<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>	18	18
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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.
5. Gore C. G., Köhler G., Reich U-P. and Ziesemer T., (1996): Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention, Metropolis- Verlag, Marburg.
6. Haynes J., (2008): Development Studies, Polity Short Introduction Series.
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

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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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Weightage of Marks		
Units	Hours	Marks
1	16	14
2	16	16
3	18	20
4	10	10
Total	60	60
University Assessment	--	60
College Assessment	--	40
Total Marks	--	100

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>		
Unit	Sub Unit	Marks
Introduction to the Research	-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.	---

Minor Study Project.		
Unit	Sub Unit	Marks
Minor Study Project <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 & generate primary data or collect secondary data, analyze it & 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

Attendance & Behavior	10
Presentation with PPT OR (Viva-Voce)	30
Total Internal Marks	40

External Marks

Project Report	60
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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.
4. Karlekar, S. N. (2006) : *Research Techniques in Geography*, Diamond Publications, Pune
5. Kothari C.R.(1996): *Research Methodology*, Vishwas Prakashan, New Delhi.
6. Misra R.P. (1991): *Research Methodology in Geography*, concept pub. New Delhi.
7. Ranjeet Kumar : *Research Methodologya Step-By-Step Guide For Beginners*, Sage Publication
8. Pandey, Prabhat & Pandey, Meenu Mishra : *Research Methodology: Tools And Techniques*, Bridge Center, 2015
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) _____