



Date :- 01/08/2024

NOTIFICATION

Sub :- CBCS Syllabi of B. A. in Geography (Sem. III & IV)

Ref. :- Decision of the Academic Council at its meeting held on 27/07/2024.

The Syllabi of B. A. in Geography (Third and Fourth Semesters) as per **NATIONAL EDUCATION POLICY – 2020 (2023 Pattern)** and approved by the Academic Council as referred above are hereby notified for implementation with effect from the academic year 2024-25.

Copy of the Syllabi Shall be downloaded from the College Website
(www.kcesmjcollege.in)

Sd/-
Chairman,
Board of Studies

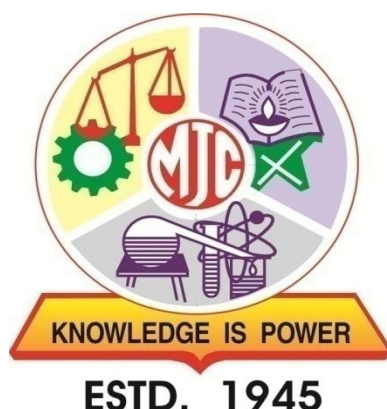
To :

- 1) The Head of the Dept., M. J. College, Jalgaon.
- 2) The office of the COE, M. J. College, Jalgaon.
- 3) The office of the Registrar, M. J. College, Jalgaon.

Knowledge is Power

Khandesh College Education Society's
Moolji Jaitha College, Jalgaon
An "Autonomous College"

Affiliated to
Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon-425001



STRUCTURE AND SYLLABUS

B.A. Honours / Honours with Research (S.Y.B.A. Geography)

**Under Choice Based Credit System (CBCS)
and
as per NEP-2020 Guidelines**

[w.e.f. Academic Year: 2024-25]

Structure for Second Year, for Academic Year 2024- 25
Geography

Class	Semester	Course	Code	Title of the Paper	Credits	
SYBA	Sem – III	Major	GEOG.DSC.231	Fundamentals of Economic Geography	4	22
		Major	GEOG.DSC.232	Practical in Map Projections	2	
		Major	GEOG.DSC.233	Practical in IMD weather maps	2	
		Minor	GEOG.MIN.231	Fundamentals of Economic Geography	4	
		Minor	GEOG.MIN.232	Practical in Map Projections	2	
		OE	GEOG.OE.231	Water Pollution	2	
		AEC			2	
		CC			2	
		CEP	GEOG.CEP.231	Community Engagement Programme	2	
	Sem – IV	Major	GEOG.DSC.241	Population Geography	4	22
		Major	GEOG.DSC.242	Practicals in Population Geography	2	
		Major	GEOG.DSC.243	Practical in Prismatic Compass Surveying	2	
		Minor	GEOG.MIN.241	Population Geography	4	
		OE	GEOG.OE.241	Geography of India	4	
		AEC			2	
		CC			2	
		FP	GEOG.FP.241	Field Project	2	

SEMESTER - III

S.Y.B.A (Geography)
Semester III
GEOG.DSC.231: Fundamentals of Economic Geography

Total Hours: 60

Credits: 4

Learning objectives	- To understand the meaning, nature, and scope of economic geography, and different types of economic activities. - To study the agricultural inputs, productivity, and the impact of green, white, and blue revolutions. - To know the various major theories and their role in economic geography. - To investigate the distribution of industries, industrial policies, and factors affecting international trade.	
Course outcomes	After successful completion of this course, students are expected to: - Gain knowledge of economic geography and its various activities. - Develop skills to analyze agricultural productivity and revolutions. - Critically assess major theories in economic geography. - Understand the distribution of industries and international trade dynamics.	
Unit	Topic Particular	Hours
Unit I	Economic activities - Meaning and definition of economic geography - Nature and scope of economic geography - Characteristics of economic activities. - Types of Economic activities. - Primary activities - Secondary activities - Tertiary activities - Quaternary activities	15
Unit II	Agriculture - Role of agriculture: seeds, fertilizers, irrigation, pesticides, power, capital, machinery in agricultural development. - Concepts of land capability and agricultural productivity. - Agricultural revolutions green revolution, white revolution and blue revolution.	15
Unit III	Theories in Economic Geography - Von Thunen's Agricultural location theory: - Weber's theory of industrial location. - Rostow's model of economic development.	15
Unit IV	Industries and trade Industries - Distribution of automobile and I. T. industries in India - Industrial policy after 1990 (globalization) - Make in India policy - Delhi-Mumbai Industrial Corridor Trade - Factors affecting international trade - Indian foreign trade (import and export) - GAAT and WTO	15

Study Resources	• Sidhharth,K. (2006). Economic Geography: Theories, Processes and Patterns.Kisalaya Publications, New Delhi. • A Das Gupta. (1975). Economic and Commercial Geography. A Mukherji and Co. Pvt., Kolkata. • Goh Cheng Leong and G. C. Morgan. (1988). Human and Economic Geography. Oxford University Press, Hong Kong. • T. C. Sharma. (2009). Economic and Commercial Geography of India.Vikas Publishing House Pvt. Ltd. □ Patil V. J. Sandanshiv, L. P. and Jangle P. P.(2017). Economic Geography of India, Prashant Publication, Jalgaon. • Shelar, S. K. (2016). Principles of Economic Geography.Chandralok Publication. • Thomon, Conkling and Yeats. (1974). Geography of Economic Activity. McGraw Hill, New York. .
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S.Y.B.A.
SEMESTER - III
GEOG.DSC.232: Practical in Map Projections
(Work Load – 12 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning objectives	- To acquaint the students with cartographic Techniques. - To understand the basic concepts of maps, globes, latitudes, longitudes, and great circles. - To learn the necessity, and classification of map projections. - To develop skills to construct cylindrical and conventional map projections and understand their uses.	
Course outcomes	After successful completion of this course, students are expected to: - Grasp fundamental concepts of maps, globes, and geographic coordinates. - Comprehend the necessity and classification of map projections. - Gain proficiency in constructing zenithal and conical projections graphically. - Effectively construct and utilize cylindrical and conventional map projections.	
Unit	Topic Particular	Hours
Unit-I	Map Projections A. Introduction to Map Projection: a. Definition of Map and Globe b. Parallels of Latitudes c. Meridians of Longitudes d. Great Circles B. Definition of Map Projections a. Necessity of Map Projection	15
Unit-II	Classification of Map Projection A. Classification of Map Projection on the Basis of their Development: a. Perspective Projections b. Non-Perspective Projections	15
Unit-III	Construction of Map Projections A. Construction of Map Projections by Graphical Methods only. B. Zenithal Projection: a. Zenithal Polar Gnomonic Projection. b. Zenithal Polar Stereographic Projection C. Conical Projections: a. Conical Projection with One Standard Parallels. b. Bonne's Projection.	15

Unit-IV	A. Cylindrical Projections a. Cylindrical Equal Area Projection b. Mercator’s Projection B. Conventional map Projections. a. Sinusoidal Projection b. Mollweide Projection C. Uses of Projections	15
Study Resources	• 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 New Delhi. • Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept Publishing. • Singh R. L. 1979: Elements of Practical Geography, Kalyani publishers, New Delhi Publishers • 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 • Steers J. A., 1965: An Introduction to the Study of Map Projections, University of London. • 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. • Monkhouse, F.J., Wilkinson, H.R. 1971. Maps and Diagrams: Their Compilation and Construction, 3rded (2017 reprint), Alphaneumera-Kolkata. • Geore p. Kellaway 1979: Map Projection B.I. Publications new Delhi	

S.Y.B.A.
SEMESTER - III
GEOG.DSC.233: Practical in IMD Weather Maps
(Work Load – 12 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning objectives	• To understand the representation of climatic data using various graphs and charts. • To learn the mechanisms, functions, and uses of key weather instruments. • To interpret IMD weather maps, including signs, symbols, and isobaric patterns for different seasons. • To collect and analyze meteorological data effectively	
Course outcomes	After successful completion of this course, students are expected to: • Gain proficiency in representing climatic data using various forms of data presentation. • Acquire knowledge about the usage and functioning of essential weather instruments. • Develop skills to interpret IMD weather maps for rainy, winter, and summer seasons. • Demonstrate ability in collecting and analyzing meteorological data.	
Unit	Topic Particular	Hours
Unit-I	Representation of climatic data: • Elements of Climatic Data • Line and Bar Graph • Climograph • Hythergraph • Wind Rose	15
Unit-II	Study of following weather instruments with their mechanism, function and uses. • Maximum and minimum thermometer • Dry and wet bulb thermometer • Barograph • Rain gauge • Cup anemometer	15
Unit-III	Introduction to I.M.D. weather map • Signs and symbols • Isobaric patterns • Interpretation of weather map of following three seasons. ○ The rainy season ○ The winter season ○ The summer season	15
Unit-VI	Metrological Data analysis: • Metrological data collection • Metrological data analysis	15

Study Resources	• Singh, L.R. and Singh, R. (1973). Map Work and Practical Geography. Allahabad: Central Book Depot. • Singh R. L. and Singh, R. P. B. (1991). Elements of Practical Geography. Ludhiana. Kalyani Publishers. • Arjun,K. (2000). Pratyakshik Bhugol. Sumeru Prakashan, Dombivali. • Ahirrao, D. Y. & Karanjkehe, E. K. (2002). Pratyakshik Bhugol Sudhershnan Prakashan, Nashik. Singh, G. (2008). Map work and practical geography. Vikas Publishing House pvt. ltd, New Delhi.	
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S.Y.B.A (Geography)
Semester III
GEOG.MIN.231: Fundamentals of Economic Geography

Total Hours: 60

Credits: 4

Learning objectives	- To understand the meaning, nature, and scope of economic geography, and different types of economic activities. - To study the agricultural inputs, productivity, and the impact of green, white, and blue revolutions. - To know the various major theories and their role in economic geography. - To investigate the distribution of industries, industrial policies, and factors affecting international trade.	
Course outcomes	After successful completion of this course, students are expected to: - Gain knowledge of economic geography and its various activities. - Develop skills to analyze agricultural productivity and revolutions. - Critically assess major theories in economic geography. - Understand the distribution of industries and international trade dynamics.	
Unit	Topic Particular	Hours
Unit I	Economic activities - Meaning and definition of economic geography - Nature and scope of economic geography - Characteristics of economic activities. - Types of Economic activities. - Primary activities - Secondary activities - Tertiary activities - Quaternary activities	15
Unit II	Agriculture - Role of agriculture: seeds, fertilizers, irrigation, pesticides, power, capital, machinery in agricultural development. - Concepts of land capability and agricultural productivity. - Agricultural revolutions green revolution, white revolution and blue revolution.	15
Unit III	Theories in Economic Geography - Von Thunen's Agricultural location theory: - Weber's theory of industrial location. - Rostow's model of economic development.	15
Unit IV	Industries and trade Industries - Distribution of automobile and I. T. industries in India - Industrial policy after 1990 (globalization) - Make in India policy - Delhi-Mumbai Industrial Corridor Trade - Factors affecting international trade - Indian foreign trade (import and export) - GAAT and WTO	15

Study Resources	• Sidhharth,K. (2006). Economic Geography: Theories, Processes and Patterns.Kisalaya Publications, New Delhi. • A Das Gupta. (1975). Economic and Commercial Geography. A Mukherji and Co. Pvt., Kolkata. • Goh Cheng Leong and G. C. Morgan. (1988). Human and Economic Geography. Oxford University Press, Hong Kong. • T. C. Sharma. (2009). Economic and Commercial Geography of India.Vikas Publishing House Pvt. Ltd. □ Patil V. J. Sandanshiv, L. P. and Jangle P. P.(2017). Economic Geography of India, Prashant Publication, Jalgaon. • Shelar, S. K. (2016). Principles of Economic Geography.Chandralok Publication. • Thomon, Conkling and Yeats. (1974). Geography of Economic Activity. McGraw Hill, New York. .
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S.Y.B.A.
SEMESTER - III
GEOG.MIN.232: Practical in Map Projections
(Work Load – 12 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning objectives	- To acquaint the students with cartographic Techniques. - To understand the basic concepts of maps, globes, latitudes, longitudes, and great circles. - To learn the necessity, and classification of map projections. - To develop skills to construct cylindrical and conventional map projections and understand their uses.	
Course outcomes	After successful completion of this course, students are expected to: - Grasp fundamental concepts of maps, globes, and geographic coordinates. - Comprehend the necessity and classification of map projections. - Gain proficiency in constructing zenithal and conical projections graphically. - Effectively construct and utilize cylindrical and conventional map projections.	
Unit	Topic Particular	Hours
Unit-I	Map Projections C. Introduction to Map Projection: e. Definition of Map and Globe f. Parallels of Latitudes g. Meridians of Longitudes h. Great Circles D. Definition of Map Projections b. Necessity of Map Projection	15
Unit-II	Classification of Map Projection B. Classification of Map Projection on the Basis of their Development: c. Perspective Projections d. Non-Perspective Projections	15
Unit-III	Construction of Map Projections D. Construction of Map Projections by Graphical Methods only. E. Zenithal Projection: c. Zenithal Polar Gnomonic Projection. d. Zenithal Polar Stereographic Projection F. Conical Projections: c. Conical Projection with One Standard Parallels.	15

	d. Bonne's Projection.	
Unit-IV	D. Cylindrical Projections c. Cylindrical Equal Area Projection d. Mercator's Projection E. Conventional map Projections. c. Sinusoidal Projection d. Mollweide Projection F. Uses of Projections	15
Study Resources	• 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 New Delhi. • Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept Publishing. • Singh R. L. 1979: Elements of Practical Geography, Kalyani publishers, New Delhi Publishers • 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 • Steers J. A., 1965: An Introduction to the Study of Map Projections, University of London. • 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. • Monkhouse, F.J., Wilkinson, H.R. 1971. Maps and Diagrams: Their Compilation and Construction, 3rd ed (2017 reprint), Alphaneumera-Kolkata. • Geore p. Kellaway 1979: Map Projection B.I. Publications new Delhi	

S.Y.B.A.
SEMESTER - III
GEOG.OE.231 - Water Pollution

Total Hours: 30

Credits: 2

Course Objectives	• To understand oceanic, surface, and groundwater pollution. • To identify urbanization, deforestation, industrial discharges, and agricultural chemicals as sources of pollution. • To evaluate impacts on human health, ecosystems, and agriculture. • To explore bioremediation, phytoremediation, and riparian buffers for pollution mitigation.	
Course Outcome	After successful completion of this course, students are expected to: • Acquire knowledge of type and sources of Water Pollution. • Differentiate between point source, non-point source, and transboundary pollution. • Assess impacts on human health, environmental stability, and agricultural sustainability. • Implement effective pollution control strategies like bioremediation and riparian buffers.	
Unit	Topic Particular	Hours
Unit I	• Introduction to Water Pollution • Type of Water Pollution ○ Ocean water pollution ○ Surface water pollution ○ Ground water pollution	08
Unit II	• Sources of Water Pollution ○ Urbanization. ○ Deforestation. ○ Industrial effluents. ○ Agricultural run-offs- Use of insecticides and pesticides • Categories of water pollution ○ Point source pollution ○ Non-Point source pollution ○ Transboundary	08
Unit III	• Effects of Water Pollution. ○ On Human ○ On Environment ○ On Agriculture	06
Unit IV	• Control Measures of Water Pollution • New Technologies to Prevent Water Pollution ○ Bioremediation ○ Phytoremediation ○ Riparian Buffers	08

Study Resources	• Water Pollution: By K. Tripathi A., published by Ashish Pub., New Delhi • Water Pollution: By Melanie 2006Ostopowich, published by Weigl Publishers, New York, • Water Pollution,1995: Edited by Jiri Hrubec, published by Springer Berlin Heidelberg • Tarek A. Kassim 2005Water Pollution: published by Springer-Verlag Edited • By P.K. Goel, 2006, Water Pollution: Causes, Effects and Control:., published in • Pardeep Singh, Rishikesh Singh, 2021 Pollutants and Water Management: Resources, Strategies, and Scarcity: Vipin Kumar Singh, and Rahul Bhadouria Edited
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SEMESTER – IV

S.Y.B.A.
SEMESTER - IV
GEOG.DSC.241: Population Geography

Total Hours: 60

Credits: 4

Learning Objectives	- To study the scope, definition, and historical evolution of population geography. - To analyze global and regional population growth, distribution patterns, and demographic determinants. - To explore theories and dynamics of population change. - To study the basic concepts of migration.	
Course Outcomes	- Acquire a comprehensive understanding of population geography as a branch of human geography. - Evaluate demographic data and trends to assess population dynamics globally and locally. - Apply theoretical frameworks to analyze population processes such as fertility, mortality, and migration. - Understand the basic concepts of migration.	
Unit	Topic Particular	Hours
Unit I	Introduction of Population Geography - Definition, nature and scope of population geography - Population geography with other disciplines - Evolution of Population Studies - History of development of population Geography	15
Unit II	Growth and composition of Population - Growth, Density and Distribution population and their determinants: world and India - Age-Sex Composition, Literacy and rural-urban	15
Unit III	Dynamics, Policies and Issues. - Population size, Distribution and Growth – Determinants and Patterns; Theories of population growth: Malthusian and Marx - Population dynamics: Fertility, Mortality, Determinants and Consequences of Migration. - Population policies of India. Contemporary Issues – Patterns of child sex ratio and Ageing Population.	15
Unit IV	Migration - Definition - Types of migration - Factors affecting on migration - Laws of migration	15
References	Johnston, R. J., Gregory, D., Pratt, G., Watts, M., & Whatmore, S. 2000. <i>The Dictionary of Human Geography</i>. Blackwell Publishing. Jones, H. R. 1981. <i>A Population Geography</i>. Harper & Row. Knox, P. L., & Marston, S. A. 2013. <i>Human Geography: Places and Regions in Global Context</i>. Pearson. Haggett, P. 2001. <i>Geography: A Global Synthesis</i>. Pearson Education. Zelinsky, W.1966. <i>A Prologue to Population Geography</i>. Prentice-	

	Hall. • Boyle, P., & Halfacree, K. 1999. <i>Migration and Gender in the Developed World</i>. Routledge. • Trewartha, G. T. 1969. <i>A Geography of Population: World Patterns</i>. John Wiley & Sons. • Clarke, J. I. 1965. <i>Population Geography</i>. Pergamon Press. • Chandna, R. C. 2016. <i>Geography of Population: Concepts, Determinants and Patterns</i>. Kalyani Publishers. • Dyson, T., Cassen, R., & Visaria, L. 2004. <i>Twenty-First Century India: Population, Economy, Human Development, and the Environment</i>. Oxford University Press. • Kundu, A. 2006. <i>India's Population: Aspects of Quality and Control</i>. South Asian Publishers. • Malthus, T. R. 1798. <i>An Essay on the Principle of Population</i>. J. Johnson. • Lee, E. S. 1966. <i>A Theory of Migration</i>. Demography. • Visaria, P., & Visaria, L. 1995. <i>India's Population in Transition</i>. Oxford University Press. • Bose, A. 2003. <i>India's Billion Plus People: 2001 Census Highlights, Methodology, and Media Coverage</i>. B. R. Publishing Corporation. • Daniels, P., Bradshaw, M., Shaw, D., & Sidaway, J. 2008. <i>An Introduction to Human Geography: Issues for the 21st Century</i>. Pearson.
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S.Y.B.A.
SEMESTER - IV
GEOG.DSC.242: Practical in Population Geography
(Work Load – 12 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning Objectives	- To master data collection methods like census data and surveys in population geography. - To understand and apply arithmetic, economic, agricultural, and nutritional densities. - To analyze and represent the demographic indicators. - Learn to create and interpret demographic maps like dot maps, choropleth maps, proportional circle maps, and pie charts.	
Course Outcomes	- Proficiently collect and analyze demographic data using census sources and surveys. - Evaluate population density measures to assess spatial distribution and resource utilization. - Interpret demographic indicators to comprehend population dynamics and trends. - Demonstrate competence in visually presenting demographic data through various mapping techniques.	
Unit		Hours
Unit I	Data Collection in Population Geography - Sources of Data- Census Data, Surveys, Recorded Statistics. - Methods of Data Collection- Questionnaires and Surveys, Interviews, Field Observations.	15
Unit II	Populations Densities - Arithmetic Density - Economic Density - Agricultural Density - Nutritional Density	15
Unit III	Mortality and fertility - Child women ratio - Sex ratio - Age sex pyramid - Crude birth rate and crude death rate.	15
Unit IV	Population distribution Maps - Dot map - Choropleth map - Proportional circle map - Pie chart	15
Study Resources	- Groves, R. M., Fowler Jr, F. J., Couper, M. P., Lepkowski, J. M., Singer, E., & Tourangeau, R. 2009. "Survey Methodology." Wiley. - Bradburn, N. M., Sudman, S., & Wansink, B., 2004. "Asking Questions: The Definitive Guide to Questionnaire Design." Jossey-Bass.	

	• Kvale, S., & Brinkmann, S. 2009. "Interviews: Learning the Craft of Qualitative Research Interviewing." Sage Publications. • Angrosino, M. V. 2007. "Doing Ethnographic and Observational Research." Sage Publications. • Clark, C. 1951. "Urban Population Densities." Journal of the Royal Statistical Society. Series A (General), 114(4), 490-496. • Johnston, R. J., Gregory, D., Pratt, G., & Watts, M. 2000. "The Dictionary of Human Geography." Wiley-Blackwell. • Smil, V. 2013. "The Earth's Biosphere: Evolution, Dynamics, and Change." MIT Press. • Weeks, J. R. 2011. "Population: An Introduction to Concepts and Issues." Cengage Learning. • Rowland, D. T. 2003. "Demographic Methods and Concepts." Oxford University Press. • Slocum, T. A., McMaster, R. B., Kessler, F. C., & Howard, H. H. 2008). "Thematic Cartography and Geo visualization." Pearson. • Dent, B. D., Torguson, J. S., & Hodler, T. W. 2008. "Cartography: Thematic Map Design." McGraw-Hill. • Izhar Hassan 2013, "Population Geography: Methods and Techniques" by Mohammad ISBN: 978-8131605714. • Majid Husain 2014, "Research Methodology in Geography" ISBN: 978-9382993914. • R. C. Chandna 2014, "Population Geography" ISBN: 978-8127223826. • Rajesh K. Chauhan 2012, "Demographic Transition: The Indian Experience" ISBN: 978-8180698063. • Asha A. Bhende and Tara Kanitkar 2003, "Population Studies", ISBN: 978-8171547527. • R. P. Misra and A. Ramesh 2014, "Fundamentals of Cartography" ISBN: 978-9384319194.
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S.Y.B.A.
SEMESTER - IV

GEOG.DSC.243: Practical in Prismatic Compass Surveying
(Work Load – 12 students per batch and 4 periods per week per Batch)

Total Hours: 60

Credits: 2

Learning Objectives	• To Master prismatic compass setup and usage for accurate surveys. • To learn bearing measurement methods and analysis. • To understand the various survey techniques using prismatic compass. • To learn methods for bearing correction and survey plotting.	
Course Outcomes	After successful completion of this course, students are expected to: • Proficiency in prismatic compass handling and survey application. • Identify and mitigate sources of errors in prismatic compass surveys. • Implement diverse survey methods for precise location determination. • Competence in using Bowditch methods for accurate survey data correction and plotting.	
Sr. No.	Topic Particular	Hours
Unit I	Introduction: • Introduction Prismatic Compass Survey • Instrument use in Prismatic Compass Survey	15
Unit II	Measuring bearing by prismatic compass ○ Whole circle bearing method ○ Quadrantal reduced bearing method ○ Forward and back bearing method • Sources of errors in Prismatic compass survey	15
Unit III	Surveying method of Prismatic compass ○ Radiation method ○ Intersection method ○ Travers method	15
Unit IV	Bowditch method ○ Graphic Method ○ Mathematical Method ○ Correction bearing and plotting of Prismatic compass survey	15
Study Resources	• Bygott, j.1955.Map work and practicalGeography.5 the Edition. • Davis, R.E.and Foote, F.s.1953.surveying, McGraw-HillBook Co.New York. • Deshpande, G.B.1991.surveying, Evrest publishing house, pune. • Kale.R.G.and Walvekar, G.V.1980survyng parts I. • Kanatkar T.P.and Kulkarni S.V. survying and leveling, part I.pune vidyarthi Griha Prakashan, pune. • Khan M.Z.1998, Text book of Practical Geography, concept publishing company, New Delhi. • Sing & Dutta. Map work and Practical Geography. • Sing R.L. & Singh R.P.B, 1993 Elements of Practical Geography Kalyani publisher, New Delhi. • Steers J, A.1993, A study of Map Projections.	

S.Y.B.A.
SEMESTER - IV
GEOG.MIN.241: Population Geography

Total Hours: 60

Credits: 4

Learning Objectives	- To study the scope, definition, and historical evolution of population geography. - To analyze global and regional population growth, distribution patterns, and demographic determinants. - To explore theories and dynamics of population change. - To study the basic concepts of migration.	
Course Outcomes	- Acquire a comprehensive understanding of population geography as a branch of human geography. - Evaluate demographic data and trends to assess population dynamics globally and locally. - Apply theoretical frameworks to analyze population processes such as fertility, mortality, and migration. - Understand the basic concepts of migration.	
Unit	Topic Particular	Hours
Unit I	Introduction of Population Geography - Definition, nature and scope of population geography - Population geography with other disciplines - Evolution of Population Studies - History of development of population Geography	15
Unit II	Growth and composition of Population - Growth, Density and Distribution population and their determinants: world and India - Age-Sex Composition, Literacy and rural-urban	15
Unit III	Dynamics, Policies and Issues. - Population size, Distribution and Growth – Determinants and Patterns; Theories of population growth: Malthusian and Marx - Population dynamics: Fertility, Mortality, Determinants and Consequences of Migration. - Population policies of India. Contemporary Issues – Patterns of child sex ratio and Ageing Population.	15
Unit IV	Migration - Definition - Types of migration - Factors affecting on migration - Laws of migration	15
Study Resources	Johnston, R. J., Gregory, D., Pratt, G., Watts, M., & Whatmore, S. 2000. <i>The Dictionary of Human Geography</i>. Blackwell Publishing. Jones, H. R. 1981. <i>A Population Geography</i>. Harper & Row. Knox, P. L., & Marston, S. A. 2013. <i>Human Geography: Places and Regions in Global Context</i>. Pearson. Haggett, P. 2001. <i>Geography: A Global Synthesis</i>. Pearson Education. Zelinsky, W.1966. <i>A Prologue to Population Geography</i>. Prentice-	

	Hall. • Boyle, P., & Halfacree, K. 1999. <i>Migration and Gender in the Developed World</i>. Routledge. • Trewartha, G. T. 1969. <i>A Geography of Population: World Patterns</i>. John Wiley & Sons. • Clarke, J. I. 1965. <i>Population Geography</i>. Pergamon Press. • Chandna, R. C. 2016. <i>Geography of Population: Concepts, Determinants and Patterns</i>. Kalyani Publishers. • Dyson, T., Cassen, R., & Visaria, L. 2004. <i>Twenty-First Century India: Population, Economy, Human Development, and the Environment</i>. Oxford University Press. • Kundu, A. 2006. <i>India's Population: Aspects of Quality and Control</i>. South Asian Publishers. • Malthus, T. R. 1798. <i>An Essay on the Principle of Population</i>. J. Johnson. • Lee, E. S. 1966. <i>A Theory of Migration</i>. Demography. • Visaria, P., & Visaria, L. 1995. <i>India's Population in Transition</i>. Oxford University Press. • Bose, A. 2003. <i>India's Billion Plus People: 2001 Census Highlights, Methodology, and Media Coverage</i>. B. R. Publishing Corporation. • Daniels, P., Bradshaw, M., Shaw, D., & Sidaway, J. 2008. <i>An Introduction to Human Geography: Issues for the 21st Century</i>. Pearson.
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S.Y.B.A.
SEMESTER - IV
GEOG.OE.241: Geography of India

Total Hours: 60

Credits: 4

Learning Objectives	• To study the India's geography, administrative divisions, and neighboring countries. • To analyze population growth, distribution factors, sex ratio variations and agricultural geography, crop production, and agro-climatic regions. • To explore mineral resources, energy production, industrial distribution, and regional development strategies. • To study the Trade and Transport in India.	
Course Outcomes	After successful completion of this course, students are expected to: • Gain knowledge of India's geographical and administrative landscape. • Evaluate population trends, demographic patterns, and socio-cultural impacts - Assess agricultural productivity, crop distribution, and environmental influences. • Understand mineral resources and industrial sectors. • Understand the Trade and Transport in India.	
Sr. No.	Topic Particular	Hours
Unit I	Introduction • Location, extent and geographical area • Administrative divisions of India • Adjoining countries • Major Physiographic Divisions	15
Unit II	Population and Agriculture Population • Growth of population in India Since 1901 • Factors affecting the distribution of population in India (Physical and Cultural) • State – wise Density distribution of Population in India. • Sex Ratio - its regional variation and associate problems of low Sex Ratio. Agriculture: • Factors affecting on agriculture in India • Production and distribution of following crops: ○ Rice, Sugarcane, Wheat and Cotton • Agro-climatic Regions of India	15
Unit III	Mineral and Power Resources • Production and distribution of resources ○ Iron ore ○ Bauxite	15

	○ Coal ○ Hydel Power ● Industries: Distribution and Production of following Industries ○ Cotton Textile industries ○ Sugar Industries ○ Major Industrial Belts in India. ○ Industrial Policy of India	
Unit IV	Trade and Transport in India ● Trade ○ Factors affecting on trade in India ○ National and International trade ○ Strategies and Policies regarding trade in India ● Transport and Communication ○ Modes of Transport: Road, Rail, Air, and Water Transport ○ Transport Networks and Their Role in Regional Development ○ Communication: Development and Impact ● Contemporary Issues ○ Environmental Issues: Deforestation, Soil Erosion, and Pollution ○ Disaster Management: Types, Causes, and Management Strategies ○ Sustainable Development: Concepts and Practices	15
Study Resources	● Dastane, “Bharat Ek Pahani”, Dastane Ramchandra and Company. ● Gharpure V.T. (2004): “Bharatacha Bhugol”, Pimplapure Prakashan, Nagpur (Marathi Medium) ● Hussain M. (1992): “Geography of India”, Tata MacGraw Hill Education. ● Miller F.P. and et. Al. (2009): “Geography of India”, Alphascript Publishing. ● Nag P. and Sengupta S.: “Geography of India”, Concept Publishing Company. ● Patil V.J., Sandanshiv L.P. & Mrs. Jangale P.P. 2017: “Physical Geography of India”, PrashantPublication, Jalgaon (MS). ● Patil V.J., Sandanshiv L.P. & Mrs. Jangale P.P. 2017: “Economic Geography of India”, Prashant Publication, Jalgaon (MS). ● Puranik Madhav 2005: “Bharatacha Bhugol”, Vidya Prakashan, Nagpur. ● Rana, Tejbir Singh 2015): “Diversity of India”, R.K. Book, Delhi. ● Sandanshiv L.P. and et. al. 2015: “NET/ SET Geography”, Prashant Publication, Jalgaon(Marathi). ● SinnghJasbir, “An Agricultural Atlas of India: A Geographical Analysis”. Tata MacGraw Hill Education.	

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