

Agenda No. in AC and Date



Vidya Prasarak Mandal's
K.G. Joshi College of Arts & N.G. Bedekar College of
Commerce
(Autonomous)
(Affiliated to University of Mumbai)
Program:B.A.
Specific Programme: Geography –JBCUAGEO Syllabus
for SYBA

Year of Establishment: 1969

Year of Upgrading: 2021-2022

Specific Programme: Geography – JBCUAGEO

PREAMBLE

Geography is the study of space and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across with reference to spatial context. This syllabus is designed to emphasize the teaching-learning process at the undergraduate (B.A./B.com) level to sensitize and train the students to develop a scientific temper and logical approach regarding mechanism and processes of natural and human activities. The focus is to help the students to understand the latest tools and techniques in geography, which would help in giving focused and precise understanding of spatial and non-spatial aspects of geographical studies. The purpose is to enhance the capability of the students in perceiving, creating and analysing sound geographical bases and concepts with practical knowledge. This Learning Outcome based Curriculum Framework is designed to emphasize the teaching and learning process at the undergraduate (B.A./B.com) as student centric by strengthening the quality of teaching and learning in the contemporary real-life scenario of global, regional and local level. It is considered learning as an activity of creativity of innovations and analysing geographical factors. The syllabus prepared keeping in the mind the major learning outcomes, which would help the students to understand and critically analyze various dimensions of the geographical issues.

Eligibility: A student must have successfully cleared the HSC (12th) examination

Duration: Three years (Entire B.A. Course)

Mode of Delivery: Offline (Online, in case of emergency)

DISTRIBUTION OF TOPICS AND CREDITS

Course	Course name	Semester	Course Nomenclature	Course Code	Credits
1	Geography	III	Introduction to Climatology	JBCUAGEO301	3
		IV	An Introduction to Oceanography	JBCUAGEO401	3

**(Credit Based Semester and Grading System with effect from
the academic year 2021–2022)**

Programmes-Outcomes: BA

PROGRAMME - OUTCOMES

PO	PO Description
PO1	To make the learners aware about landmark historical events, political systems, geographical and social aspects of Regional, National and International level
PO2	To impart linguistic skills and proficiency to the learners about the literature-ancient, Regional, National and International level
PO3	To sensitize students towards social climate and culture
PO4	To equip the learners with the skills of citizenship
PO5	To make the learners aware about Philosophical thoughts - Indian and Western

**Credit Based Semester and Grading System with effect from
the academic year 2021–2022)**

Programmes-Specific Outcomes: Geography -JBCUAE0

PROGRAMME - SPECIFIC OUTCOMES

PSO	PSO Description
PSO1	Apprising the learners with the concepts, theories, and ideas related to spatial and non-spatial aspects of Geography
PSO2	Acquainting the learners about the evolutionary to contemporary process of development in the field of Geography
PSO3	Imparting practical knowledge through field visits, research project to investigate the Socio-cultural, Environmental, Economic and Technological Changes.
PSO4	Sensitizing the learners with Economic, Social, Cultural and Environmental sustainability
PSO5	To equip the learners for being responsible citizens for global competitiveness for welfare of the society.

COURSE OUTCOMES

Semester III

Course Nomenclature: Introduction to Climatology

Course Code: **JBCAUGEO301**

1. To acquire the knowledge of different climatic elements and their impacts on the earth surface
2. To develop an understanding of how climatic factors have influenced our life.
3. To create an awareness about the responsibility of human beings towards nature.
4. To understand weather phenomena winds, humidity, precipitation and winds.
5. To develop the ability to read and interpret the weather map and to construct the various graphs related to climatology.

Semester IV

Course Nomenclature: An Introduction to Oceanography

Course Code: **JBCAUGEO401**

1. To build the knowledge of features of Ocean Floor and their significance.
2. To develop their understanding about movement of ocean water and their impact.
3. To create an awareness regarding the resultant loss of water resources especially oceans due to human activities and necessary measures to be taken.
4. To develop the skill regarding reading and interpretation of bathymetrical maps.

GEOGRAPHY PAPER II

SEMESTER III

TITLE: An Introduction to Climatology

Unit-I: Introduction to Climatology (9)

- 1.1 Definition, nature, scope and branches of climatology
- 1.2 Composition and structure of atmosphere
- 1.3 Factors affecting Temperature and Heat Budget
- 1.4 Insolation: Vertical and horizontal distribution of temperature

Unit-II: Air Pressure and Atmospheric Circulation (9)

- 2.1 Air pressure: Influencing factors.
- 2.2 Tricellular model, Horizontal distribution of air pressure
- 2.3 Wind: Types of winds – global, regional and local
- 2.4 Upper air circulation – jet stream (concept, origin and effects)

Unit-III: Humidity and Precipitation (9)

- 3.1 Humidity: Types - absolute, relative and specific
- 3.2 Condensation and its forms, Clouds : Formation and Types
- 3.3 Precipitation and its types
- 3.4 Global distribution of rainfall

Unit-IV: Climate and Weather Phenomena (9)

- 4.1 Concept of Air Masses and Types.
- 4.2 Cyclones: tropical and temperate, Anti-cyclones and tornados
- 4.3 El Nino and Indian monsoon
- 4.4 Global warming and climate change

Unit-V: Practical Component (9)

- 5.1 IMD: Weather signs and symbols
- 5.2 Interpretation of IMD weather maps
- 5.3 Construction of: Wind rose, Climograph and Hythergraph
- 5.4 Interpretation of Weather Diagrams

REFERENCE

1. Ahrens, C.D. (2012): Essentials of Meteorology: An Invitation to the Atmosphere; Cengage Learning, Boston
2. Ahrens, C.D., Jackson, P.L., Jackson, C.E.J. and Jackson, C.E.O. (2012): Meteorology Today: An Introduction to Weather, Climate and the Environment; Cengage Learning; Boston
3. Barry, R.G. and Chorley, R.J. (2003): Atmosphere, Weather and Climate; Psychology Press, Hove; East Sussex.
4. Chawan S.V. (ed) (2015): Physical Geography, Paper I, Published by Director (I/C), Institute of Distance and Open Learning, University of Mumbai.
5. Critchfield, H.J., (1975): general Climatology, Prentice Hall, New Jersey.
6. Lal D.S. (1997): Climatology; Sharda Pustak Bhavan; Allahabad
7. Lydolph, P.E.(1985): The Climate of the Earth, Rowman Nad Allanheld, Totowa, New Jersey.
8. Mather,J.R.(1974): Climatology: Fundamentals and Applications; Mc Craw Hill Book Co., U.S.A.
9. Matthews, W. H., Kellogg, W., Robinson, G.D. (1971): Man's Impact on Climate; 1. M.I.T. Press Design Dept. U.S.A.
10. Oliver, J.E. (1993): Climatology: An Atmospheric Science, Pearson Education India, New Delhi
11. Rosenberg, N.J., Blad, B.L., Verma, S.B.(1983): Micro-climate Biological Environment; John Wiley & Sons, U.S.A.
12. Rumney, G.R. (1968): Climatology and the World Climates, Macmillan, London.
13. Shinde P. ; Pednekar H. et.al. (2010): Introduction to Geography, Sheth Publishers 1. Pvt.Ltd., Mumbai.
14. Subrahmanyam, V.P. (ed) (1983): Contributions to Indian Geography a) Vol III- General Climatology, b) Volume IV- Applied Climatology. Heritage Publishers, New Delhi.
15. Trewartha, G.T. (1980): An Introduction to Climate; McGraw Hill, New York, 5th edition, (International Student Edition)

SEMESTER IV
TITLE: Geography Paper II

SUB-TITLE: An Introduction to Oceanography

Unit-I: NATURE OF OCEANOGRAPHY (9)

- 1.1 Origin and Development of oceanography
- 1.2 Oceanography: meaning, definition, nature and scope.
- 1.3 Branches of oceanography: physical, chemical and biological
- 1.4 Major Oceans and its characteristic features

Unit-II: BOTTOM RELIEF AND OCEAN WATER (9)

- 2.1 Ocean floor and its characteristics and Tectonic Movements
- 2.2 Factors affecting ocean water temperature and Distribution of Temperature.
- 2.3 Vertical and horizontal distribution of oceanic salinity
- 2.4 Factors affecting salinity of ocean water and Distribution of Salinity

Unit-III: MOVEMENTS OF OCEAN WATER (9)

- 3.1 Concept and formation Waves, Tsunami and their effects on coast.
- 3.2 Concept and types of Tides
- 3.3 Equilibrium theory of tides
- 3.4 Ocean Currents - Types and their effects

Unit-IV: MAN AND OCEAN (9)

- 4.1 Ocean Deposits
- 4.2 Coral reefs and their importance
- 4.3 Marine Ecosystem
- 4.4 Oceans and global climate change

UNIT-V: PRACTICAL COMPONENT – OCEANOGRAPHY (9)

- 5.1 Map Filling: Related Oceanography
- 5.2 Abbreviations and signs in Navigation Charts.
- 5.3 Reading of Navigation Charts and Bathymetric Maps
- 5.4 Interpretation of Navigation Charts and Bathymetric Maps

REFERENCES

1. Bhatt, J.J. (1978) : Exploring the Planet Ocean, D. Von Nostrand Co. New York.
2. Birla Economic Research Foundation, economic Research Division (1992): The Oceans, Allied Publishers Ltd. New Delhi.
3. Chandra, S. and Other (eds). (1993) : The Indian Ocean and its islands : Strategic Scientific and Historical perspectives, Sage Publications, New Delhi.
4. Chawan S.V. (ed) (2015) : Physical Geography, Paper I, Published by Director (I Institute of Distance and Open Learning University of Mumbai.
5. Fairbridge, R.W. (ed) Encyclopedia of Oceanography, Reinholt, New York.
6. Sharma, R.C. (ed) (1985): The Oceans : Realities and Prospects, Rajesh Publicati New Delhi.
7. Sengupta, R. and Desa E. (eds) (2001): The Indian Oceans : A Perspective Vol. I and II Oxford and IBH Publishing Company Private Limited, New Delhi.
8. Paul, P.R. (1998): Invitation to Oceanography, Jones and Bartlett Publis Sudbury, Massachusetts.
9. Rajgopalan, R (ed) (1996) : Voices for Oceans, A Report to the Independent W Commission on the Oceans, International Ocean Institute, Operational C Madras, India..
10. Qasim, S.Z. (1998) : Glimpses of Indian Ocean, Universities Press (India) Lir Hyderabad.

Modality of Assessment

A. Internal Assessment: 40% - 40 Marks

Serial No.	Evaluation Type	Marks
1	Written Test	20
2	Jornal	15
3	Class Participation	05
	Total:	40

B. External Examination: 60%- 60 Marks

Semester End Theory Examination

Time: 2 hours

Marks: 60

NB.

1. All questions are compulsory.
2. Each question has internal options.
3. Figures to the right indicate marks.

1. Full length question (from Unit I) 12

OR

1. Full length question (from Unit I) 12

2. Full length question (from Unit II) 12

OR

2. Full length question (from Unit II) 12

3. Full length question (from Unit III) 12

	OR	
3. Full length question (from Unit III)		12
4. Full length question (from Unit IV)		12
	OR	
4. Full length question (from Unit IV)		12
5. Practical based question (from Unit V)		12
	OR	
5. Practical based question (from Unit V)		12

DISTRIBUTION OF TOPICS AND CREDITS

Course	Course name	Semester	Course Nomenclature	Course Code	Credits
1	Paper III	III	Physical Geography of India	JBCUAGEO302	3
		IV	Agricultural Geography of India	JBCUAGEO402	3

**(Credit Based Semester and Grading System with effect from
the academic year 2022–2023)**

Programmes-Outcomes: BA

PROGRAMME - OUTCOMES

PO	PO Description
PO1	To make the learners aware about landmark historical events, political systems, geographical and social aspects of Regional, National and International level
PO2	To impart linguistic skills and proficiency to the learners about the literature- ancient, Regional, National and International level
PO3	To sensitize students towards social climate and culture
PO4	To equip the learners with the skills of citizenship
PO5	To make the learners aware about Philosophical thoughts - Indian and Western

**(Credit Based Semester and Grading System with effect from
the academic year 2022–2023)**

Programmes-Specific Outcomes: GEOGRAPHY- JBCUAGEO

PROGRAMME - SPECIFIC OUTCOMES

PS O	PSO Description
PS O1	Apprising the learners with the concepts, theories, and ideas related to spatial and non-spatial aspects of Geography
PS O2	Acquainting the learners about the evolutionary to contemporary process of development in the field of Geography
PS O3	Imparting practical knowledge through field visits, research project to investigate the Socio-cultural, Environmental, Economic and Technological Changes.
PS O4	Sensitizing the learners with Economic, Social, Cultural and Environmental sustainability
PS O5	To equip the learners for being responsible citizens for global competitiveness for welfare of the society.

COURSE OUTCOMES

Semester III

Course Nomenclature: Physical Geography of India

Course Code: JBCUAGEO302

1. To build the knowledge about physical features of India
2. To develop an understanding of availability, use and need of conservation of natural resources.
3. To develop cosmopolitan and internationalist outlook.
4. Show the geographical features in the map of India.
5. Read, convert and prepare the map scale.

Semester IV

Course Nomenclature: Agricultural Geography of India

Course Code: JBCUAGEO402

1. To introduce the Agricultural geography and understand its significance
2. To enhance the knowledge of Indian Agriculture.
3. To understand the significance of thematic map.
4. To understand the development of recent trends in agriculture in India.
5. To interpret the thematic maps and draw the statistical diagrams and graphs

Paper III: Geography Semester III
Course Nomenclature: : Physical Geography of India
Course Code: JBCUAGEO302

Unit-I: Introduction of India		09 (lectures)
1.1	India: Location, extent and significance,	
1.2	Physical Divisions of India	
1.3	The mountainous region of India and its formation	
1.4	North Indian plains and their formation	
1.5	Peninsular plateau of India and its formation	
Unit-II: Drainage and Climate		09 (lectures)
2.1	Drainage System in India (Himalayan and Peninsular drainage system)	
2.2	Major lakes of India	
2.3	Koeppen's Climate Classification in the Indian context	
2.4	Seasons in India	
2.5	Distribution of rainfall in India	
Unit-III: Soils and Natural Vegetation		09 (lectures)
3.1	Classification of soils in India	
3.2	Problems associated with soils and their remedies in India	
3.3	Classification of Forest in India	
3.4	Importance of Forest in the Indian context	
3.5	Deforestation and measures of forests conservation in India	
Unit-IV: Mineral and Power Resources		09 (lectures)
4.1	Distribution of Metallic Minerals in India: Iron ore, manganese, bauxite, copper and other important minerals	
4.2	Distribution of Non-Metallic Minerals in India: Mica, limestone, gypsum, clay, and other important minerals	
4.3	Distribution of Power Resources: Coal, mineral oil and natural gas, thorium and uranium	
4.4	Problems associated with minerals and power resources in India	
4.5	Conservation of minerals and power resources in India	
Unit-V: Practical Component		09 (lectures)

5.1	Map filling: Showing geographical features on the outline	
5.2	Map of India (Related to physiography)	
5.3	Concept and Types of Contours, contour landforms	
5.4	Stream Order - The Classification of Streams and Rivers	
	Map Scale -Types and Conversion	

REFERENCES

1. Deshpande C.D. (1992): India: A Regional Interpretation, Northern Book Centre, New Delhi.
2. Bharucha, F.R. (1983): A text book of the plant geography of India, Oxford University Press, Bombay.
3. Dikshit, K.R.(1991): Environment, Forest Ecology and man in the Western Ghats- The Case of Mahabaleshwar Plateau, Rawat Publications, New Delhi.
4. Forest Survey of India: State Forests Reports, Dehradun.
5. Khullar, D.R. (2014): India: A Comprehensive Geography; Kalyani Publishers
6. Miller, R.W. et al. (1995): Soil in Our Environment, Prentice hall, U.S.A.
7. Raychudhari, S.P.(1958): Soils of India, ICAR, New Delhi
8. Robinson, F (ed.) (1989): The Cambridge Encyclopedia of India, Pakistan, Bangla desh and Sri Lanka, Cambridge University Press.
9. Savindra Singh (2006) : Physical Geography of India ; Pravalika Publications, Allahabad.
10. Sharma T.C. (2013) Economic Geography of India; Rawat Publications, New Del
11. Shinde P. ; Pednekar H. et.al. (2010): Introduction to Geography, Sheth Publishers Pvt.Ltd., Mumbai.
12. Shinde P. ; Pednekar H. et.al. (2011): Economic Geography of India, SYBA paper II Sheth Publishers, Pvt.Ltd., Mumbai
13. Singh, R.L. (1971): India-A Regional Geography, National Geographical Society of India, Varanasi.
- Tirth, R (1996): Geography of India, Rawat Publications, Jaipur.
14. Majid Hussain (2014, 5th edition): Geography of India, McGraw Hill Education (India) Private Ltd, Uttar Pradesh.

Paper III: Geography Semester IV

Course Nomenclature: Agricultural Geography of India

Unit-I: Introduction to Agricultural Geography		09 (lectures)
1.1	Definition, nature and scope of agricultural geography	
1.2	Origin and Dispersal of Agriculture	
1.3	Approaches: regional approach, systematic approach, commodity approach, recent approaches	
1.4	Von Thunen's theory of agricultural location and its recent modifications	
1.5	Factors influencing agriculture in India	
Unit-II: Introduction to Indian Agriculture		09 (lectures)
2.1	Salient features of Indian agriculture	
2.2	Types of farming in India	
2.3	Major crops of India	
2.4	Agro- climatic regions of India	
2.5	Problems associated with Indian agriculture (Natural, Socio-Economic and Political)	
Unit-III: Green Revolution in India		09 (lectures)
3.1	Introduction of Green Revolution in India	
3.2	Components of Green Revolution	
3.3	Positive and Negative impacts of Green Revolution	
3.4	Need for sustainable agriculture in India	
3.5	Agriculture in drought prone region and watershed management	
Unit-IV: Recent Trends in Agriculture		09 (lectures)
4.1	livestock resources and white revolution	
4.2	Genetic engineering, tissue culture, and horticulture	
4.3	Poly house agriculture and Hydroponic farming	
4.4	Agro-tourism and agroforestry	
4.5	Role of geospatial technology in agriculture	
Unit- V : Practical Component		09 (lectures)
5.1	Interpretation/ question-answer on thematic maps related to the agriculture of India (NATMO and others)	
5.2	Drawing of Statistical Diagrams and Graphs: Simple line graphs, multiple lines, simple bar, compound bar, and band graph	
5.3	Field Visit and report writing	
5.4	Field-Based Agricultural Skills- Fertilizing methods, irrigation systems, pilot projects, terrace/window farming, etc.	

REFERENCES

1. Bansil, B. C. (1975): 'Agricultural Problems of India', Delhi.
2. Bayliss Smith, T.P. (1987) : The Ecology of Agricultural Systems. Cambridge University Press, London .
3. Berry, B.J.L. et. al.(1976) : The Geography of Economic Systems. Prentice Hall, New York.
4. Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
5. Grigg, D. (1984): 'An Introduction to Agricultural Geography', Hutchinson Publication, London
6. Grigg, D.B.(1974) : The Agricultural Systems of the World. Cambridge University Press, New York.
7. Hartshorn, T.N. and Alexander, J.W. (1988): Economic Geography. Prentice Hall, New Delhi.
8. Morgan W.B. and Norton, R.J.C. (1971): Agricultural Geography. Mathuen, London.
9. Morgan, W. B. and Munton, R. J. C. (1977): 'Agricultural Geography' Methuen, London.
10. Morgan, W.B.(1978): Agriculture in the Third World - A Spatial Analysis. Westview Press, Boulde.
11. Sauer, C. O. (1952): 'Agricultural Origins and Dispersals', American Geographical Journal
12. Sauer, C.O.(1969): Agricultural Origins and Dispersals. M.I.T. Press, Mass, U.S.A.
13. Singh J.(1997): Agricultural Development in South Asia: A Comparative A Study in the Green Revolution Experiences, national Books Organization, New Delhi.
14. Singh, J. and Dhillon, S. S. (1984): 'Agricultural Geography', McGraw Hill, New Delhi.
15. Singh, J. and Dhillon, S.S. (1988), "Agricultural Geography", 2nd edition, Tata McGraw-Hill, NewDelhi
16. Symons, L. (1972): 'Agricultural Geography', Bell and Sons, London
17. Tarrant, J.R.(1974): Agricultural Geography, Problems in Modern Geography Series, John Wiley and Sons.
18. The Hindu (2006): Survey of Indian Agriculture 2006. New Delhi.
19. Wigley, G.(1981), Tropical Agriculture: The Development of Production, 4th edition, Arnold, London

Modality of Assessment

Serial No.	Evaluation Type	Marks
1	Written Test	10
2	Field visit report	10
3	Journal	10
4	Class Participation	10
	Total:	40

A. Internal Assessment: 40% - 40 Marks

B. External Examination: 60%- 60 Marks

Semester End Theory Examination

Time: 2 hours

NB. 1. All questions are compulsory.

2. Each question has internal options.

3. Figures to the right indicate marks.

1. Full length question (from Unit I) 12

OR

1. Full length question (from Unit I) 12

2. Full length question (from Unit II) 12

OR

2. Full length question (from Unit II) 12

3. Full length question (from Unit III) 12

OR

3. Full length question (from Unit III) 12

4. Full length question (from Unit IV) 12

OR

4. Practical based question (from Unit IV) 12

5. Practical based length question (from Unit V) 12

OR

5. Full length question (from Unit V) 12