Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur

Mahavir Mahavidyalaya, Kolhapur (Autonomous)

Affiliated to Shivaji University, Kolhapur



Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part	II
Semester	III
Course Code	DSC E V
Course Name	Geography
Course Title	Evolution of Geographical Thought
Paper No.	VII

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur

(New syllabus under Autonomy to be introduced from June, 2023 onwards)			
A) Primary Information:			
Programme	Bachelor of Arts CBCS		
Part	III	Semester	V
Course	B.A.	Course Code	DSC E7
Paper No.	VII	Course Type	Semester
Total Marks	50 Marks	Implementation	2023-24
Total Credits	04	Contact Hours	04/Week
Course Title Evolution of Geographical Thought			

B) Co	B) Course Objectives:			
i)	To study the historical evolution of geographic thought.			
ii)	An analysis of different paradigms in geography.			
iii)	To evaluating the contemporary trends in geographical studies.			
iv)	To study the paradigms and debates in the geographical studies.			
v)	To study the recent trends in geography.			
vi)	To study the historical evolution of geographic thought.			
vii	An analysis of different paradigms in geography.			

C) Course Syllabi:

Modules	CR	IH
Module – I Geography in Ancient Period		15
1.1 Contribution of Greeks		
1.2 Contribution of Romans		
1.3 Arab Geographical Thoughts		
1.4 Indian Geographical Thoughts		
Module – II Schools of Geography		
2.1 German School of Geography – Alexander von Humboldt		15
2.2 French School of Geography – Vedal de la Blache	01	15
2.3 American School of Geography - William Moris Davis		
2.4 British School of Geography – Halford J. Mackinder		

Module – III Dualisms in Geography		
3.1 Determinism Vs Possibilism	01	15
3.2 Systematic Vs Regional geography		
3.3 Physical Vs Human geography		
3.4 Ideographic Vs Nomothetic		
Module - IV Trends in Geography		
4.1 Quantitative Revolution		
4.2 Paradigm in Geography	01	15
4.3 Man-nature relationship: Radicalism, Behaviourism and Humanism		
4.4 Recent trends in Geography		

D)]	Reference Materials
1	Adhkari, S. (2006) Fundamentals of Geographical Thought,
	Chaitanya Publishing House, Allahabad.
2	Bunkse, V.E. (2004) <i>Geography and the art of Life,</i> John Hopkins
	University Press, Bailtimore,
3	Dikshit, R. D. (1997). <i>Geographical Thought: A Contextual</i>
	History
	of Ideas. Delhi, India: Prentice- Hall India
4	Dixit, R.D. (2001) Geographical Thought : A critical History of ideas,
	Prentice
	Hall of India, New Delhi
5	Dixit, R.D. (2001) भौगोfलक fचतन, Prentice Hall of India, New Delhi
6	Gaile, G. and Wilmot, C. (ed) (2003) Geography in America at the Dawn of
	the 21st Centrury, Oxford University Press, Oxford & New York.
7	Harvey, David., (1969): Explanation in Geography, London: Arnold.

8	HubbarD, P.et al (2002) Thinking Geographically : Space, Theory and		
	Contemporary Human Geography, Continuum, London		
9	Johnston, R.J. (1988) The Future of Geography, Methuen, London,		
10	Johnston, R.J. and Claval, P. (1984) Geography since the Second World		
	War : An International survey, Crown Haim, Sydney.		
11	Majid Husain (2007): Evolution of Geographic Thought Rawat		
	Publication, Jaipur		
12	Marcus, D. (1999) Post – Structuralism in Geography, The Diabolical Arts of		
	Spatial Sciences, Edinburgh University Press, Edinburgh.		
13	Martin Geoffrey J. (2005). All Possible Worlds: A History of Geographical		
	<i>Ideas,</i> UK: Oxford.		
14	Singh, R.B. (2016). Progress in Indian Geography. New Delhi, India:		
	Indian National Science Academy.		
15	Sudeepta, A. (2015). <i>Fundamentals of Geographical Thought</i> . Delhi, India:		
	Orient black swan private limited.		
16	e-PG Pathshala: https://epgp.inflibnet.ac.in/		
17	MOOCS - NPTEL: <u>https://nptel.ac.in/</u>		
18	MOOCS - SWAYAM: https://swayam.gov.in/		
19	National Digital Library of India: <u>https://ndl.iitkgp.ac.in/</u>		
20	Shivaji University Library (E-Resources):		
	http://www.unishivaji.ac.in/library/E-Resources		

E) Suggested methods of Teaching:		
i)	Lecture	

F) Co	urse Outcomes:	Blooms
		Taxonomy
CO1	Student should be able to understand in-	
	depth about the Evolution of Geographical	
	Thought.	
CO2	Students should be able to analyse the recent	
	trends in geography.	
CO3	Student should be able to make use of various	
	models of paradigms and debates in the	
	geographical studies.	
CO4	Understanding of recent trends in geography.	

G) Scheme of Course Evaluation			
1.	End Semester Examination (ESE)	40	

2.	Continuous Internal Evaluation (CIE)	10
3.	Total Marks	50

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)			
1.	Group discussion / Presentation/ Debate	10	
	Total Marks	10	

I) Question Paper Pattern (40 Marks)			
Q. No.	Nature / Type of Question	Marks	
1.	Multiple Choice Questions (5X1)	05	
2.	Write short note (any 3 out of 5) (3X5)	15	
3.	A) Long/broad question (10) Or Long/broad question (10) B) Long/broad question (10) Or Long/broad question (10)	20	
	Total Marks	40	

Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur



Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part	III
Semester	VI
Course Code	DSC E VIII
Course Name	Geography
Course Title	Economic Geography
Paper No.	VIII

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur (New syllabus under Autonomy to be introduced from June, 2023 onwards)

A) Primary Information:				
Programme	Bachelor of Arts CBCS			
Part	III	Semester	V	
Course	B.A.	Course Code	DSC E8	
Paper No.	VIII	Course Type	Semester	
Total Marks	50 Marks	Implementation	2023-24	
Total Credits	04	Contact Hours	04 / Week	
Course Title	Geography of India			

B) Cou	B) Course Objectives:			
i)	To acquaint the students with distinct dimensions of India and physical setup of the country.			
ii)	To focus the climate of India and mechanism of monsoon of India.			
iii)	To get information about soils and vegetations in India.			
iv)	To help the students to understand recent trends in regional study.			
v)	To focus on the mineral, agricultural and industrial product of the country.			
vi)	To understand the economic setup of the country			

C) Course Syllabi: (CR = Credits / IH: Instructional Hours)

Modules	CR	IH
Module I : Physical Profile of India		
1.1.Location: a) Absolute Location b) Relative Location		
1.2. Physical Divisions (Characteristics / Climate & Vegetation)		
b) The Great North Indian Plains		
c) Peninsular Plateau	01	15
d) Coastal Plains		
e) Indian Islands		
1.3 River System (Characteristics & Basins)		
a) Himalayan Rivers		
b) Peninsular Rivers		
Module II : Climate and Natural Vegetation		
i. Climate		
a) Mechanism of Monsoon, El Nino & La Nina		
b) Seasons (Characteristics & Weather Conditions)	01	15
ii. Natural Vegetation (Characteristics and Conservation)		
a) Classification of Natural Vegetation		
b) Biosphere Reserves		
		1

Module-III : Minerals and Power Resources 3.1 Minerals a) Iron ore : Distribution and Utilization b) Manganese : Distribution and Utilization	01	15
3.2. Power Resources		
a) Conventional resources: Coal - Distribution and Utilization		
b) Non- Conventional resources: Solar energy : Distribution and Utilization		
Module IV : Agriculture and Industry		
4.1. Major Crops		
a) Rice : Production and Distribution		
b) Sugarcane : Production and Distribution	01	15
4.2. Industries		
a) Automobile and IT industry		
b) Iron & Steel and Cotton Textile Industry		

D) R	eference Materials
1	Majid H., (2013): Geography of India, Tata Mcgraw Hill Education (India) PrivateLimited,
	New Delhi.
2	Khullar R. D. (2007): India- A Compressive Geography, Kalayani Publisher.
3	Tiwari, R.C. (2007) Geography of India. Prayag Pustak Bhawan, Allahabad.
4	Singh R. L., (1971): India: A Regional Geography, National Geographical Society of India.
5	Deshpande C. D., (1992): India: A Regional Interpretation, ICSSR, New Delhi
6	Johnson, B. L. C., ed. (2001). Geographical Dictionary of India. Vision Books, NewDelhi.
7	Mandal R. B. (ed.), (1990): Patterns of Regional Geography – An IntenationalPerspective. Vol. 3 –
8	Indian Perspective.
9	Sdyasuk Galina and Sengupta P., (1967): Economic Regionalisation of India, Census ofIndia
10	Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., NewDelhi.
11	Singh, J., (2003),: India - A Comprehensive & Systematic Geography, Gyanodaya Prakashan, Gorakhpur.
12	Spate O. H. K. and Learmonth A. T. A., (1967): India and Pakistan: A General and Regional Geography, Methuen.
13	Tirtha, R., (2002): Geography of India, Rawat Publs., Jaipur & New Delhi.
14	Pathak, C. R. (2003): Spatial Structure and Processes of Development in India.
	RegionalScience Assoc., Kolkata.
15	Sharma, T.C. (2013): Economic Geography of India. Rawat Publication, Jaipur.

16	Savadi, Kolekar: Bharatacha Samarag Bhugol, Nirali Prakashan, Pune.
17	Khatib K. A.,: Geography of India
18	Pawar C.T. & Others : Geography of India.

E) Suggested methods of Teaching:

L) Dug	L) Suggested methods of Tedening.				
i)	Lecture				

F) Cou	rse Outcomes:	Blooms Taxonomy
CO1	In depth understanding the dimensions and physiography of India.	
CO2	The students are fully aware about the climatic seasons in India.	
CO3	Detailed knowledge about soils, vegetations, drainage systems in India.	
CO4	Understanding an importance of agriculture and industry in Indian economy.	
CO5	Detailed knowledge about the economic setup of the India.	

G) Scheme of Course Evaluation			
1.	End Semester Examination (ESE)	40	
2.	Continuous Internal Evaluation (CIE)	10	
3.	Total Marks	50	

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)		
1.	Prepare the map or Model of Physical Divisions/ Rive system/Vegetation/Minerals/Industries of India	10

I) Question Paper Pattern (40 Marks)		
Q. No.	Nature / Type of Question	Marks
1.	Multiple Choice Questions (5X1)	05
2.	Write short note (any 3 out of 5) (3X5)	15
3.	A) Long/broad question (10)	
	Or	
	Long/broad question (10)	20
	B) Long/broad question (10)	20
	Or	
	Long/broad question (10)	
	Total Marks	40

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Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts	
Part	III	
Semester	V	
Course Code	DSC E9	
Course Name	Geography	
Course Title	Population Geography	
Paper No.	IX	

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur (New syllabus under Autonomy to be introduced from June 2023 onwards)

(New syllabus under Autonomy to be introduced from June, 2023 onwards)				
A) Primary Information:				
Programme	Programme Bachelor of Arts CBCS			
Part	III	Semester	V	
Course	B.A.	Course Code	DSC E9	
Paper No.	IX	Course Type	Semester	
Total Marks	50 Marks Implementation 2023-24			
Total Credits04Contact Hours04/Week			04/Week	
Course Title Population Geography				

B) Cou	B) Course Objectives:		
i)	To study the basics of population geography.		
ii)	To study the population growth trends and its distribution.		
iii)	To study the population dynamics.		
iv)	To study the population compositions and its characteristics.		

C) Course Syllabi:		
(CR = Credits / IH: Instructional Hours)		
Modules	CR	IH
Module I: Introduction to Population Geography		
1.1.Definition of Population Geography		15
1.2.Nature and Scope of Population Geography		10
1.3 Significance of Population Geography		
1.4 Sources of Population Data		
Module II: Population Growth and Distribution		
2.1. World Population Growth and Distribution		
2.2. Factors Affecting on the Population Distribution	01	15
2.3. Population Concepts: Under Population, Optimum Population		15
and Over population		
2.4 Recent Population Policies: India and China		
Module III: Population Dynamics		
3.1. Concept of Population Dynamics	01	15
3.2. Fertility: Concept and Types		
3.3. Fertility: Causes, Effects and Measures		
3.4. Mortality: Concept and Types		

Module IV: Migration		
4.1.Concept of Migration		. –
4.2. Types of Migration	01	15
4.3. Causes and effects of Migration		
4.4. Recent trends in Migration	1	

D) F	Reference Materials
1	Barrett H. R., 1995: Population Geography, Oliver and Boyd.
2	Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya PublishingHouse.
3	Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, KalyaniPublishers.
4	Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.
5	Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.
6	Lutz W., Warren C. S. and Scherbov S., 2004: The End of the World Population Growth in the21st Century, Earthscan
7	Newbold K. B., 2009: Population Geography: Tools and Issues, Rowman and LittlefieldPublishers.
8	Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.
9	Wilson M. G. A., 1968: Population Geography, Nelson.
10	Panda B P (1988): Janasankya Bhugol, M P Hindi Granth Academy,Bhopal
11	Maurya S D (2009) Jansankya Bhugol, Sharda Putak Bhawan, Allahabad
12	Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi
13	Trewartha, G T (1969), A Geography of Population: world patterns, John Wiley, New York.
14	Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.
15	e-PG Pathshala: https://epgp.inflibnet.ac.in/
16	MOOCS - NPTEL: <u>https://nptel.ac.in/</u>
17	MOOCS - SWAYAM: <u>https://swayam.gov.in/</u>
18	National Digital Library of India: <u>https://ndl.iitkgp.ac.in/</u>
19	Shivaji University Library (E-Resources): <u>http://www.unishivaji.ac.in/library/E-</u> <u>Resources</u>

E) Suggested methods of Teaching:		
i)	Lecture	

F) Co	urse Outcomes:	Blooms
,		Taxonomy
CO1	This paper would bring an understanding of	
	population geography along with relevance of	
	demographic data.	
CO2	The students would get an understanding of	
	distribution and trends of population growth in the	
	developed and less developed countries, along with	
	population concepts.	
CO3	The students would get an understanding of the	
	dynamics of population.	
CO4	An understanding of the implications of population	
	composition in differentregions of the world.	
CO5	An appreciation of the contemporary issues in the field	
	of population studies	

G) Scheme of Course Evaluation			
1.	End Semester Examination (ESE)	40	
2.	Continuous Internal Evaluation (CIE)	10	
3.	Total Marks	50	

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)		
1.	Collection of population data of your Village/City/Tahsil/District	10
2.	Analyse population composition (Age/Sex/Literacy)	
	Total Marks	10

I) Question Paper Pattern (40 Marks)		
Q. No.	Nature / Type of Question	Marks
1.	Multiple Choice Questions (5X1)	05
2.	Write short note (any 3 out of 5) (3X5)	15
3.	A) Long/broad question (10) Or Long/broad question (10) B) Long/broad question (10) Or Long/broad question (10)	20
	Total Marks	40

Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur

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Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part III	
Semester	VI
Course Code	DSC E VIII
Course Name	Geography
Course Title	Economic Geography
Paper No.	X

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur (New syllabus under Autonomy to be introduced from June 2023 onwards)

(New syllabus under Autonomy to be introduced from June, 2023 onwards)			
A) Primary Information:			
Programme	Programme Bachelor of Arts CBCS		
Part	III	Semester	V
Course	B.A.	Course Code	DSC E10
Paper No.	X Course Type Semester		Semester
Total Marks	cks 50 Marks Implementation 2023-24		
Total Credits04Contact Hours04/Week			
Course Title Economic Geography			

B) Co	B) Course Objectives:		
i)	To study the basics of economic geography.		
ii)	To study the locational factors of economic activities with special		
	reference toagriculture and industry.		
iii)	To study the basics concepts related to manufacturing and major		
	manufacturingindustries of selected countries of the world.		
iv)	To study the transport and trade.		
v)	To study the basics of economic geography.		
vi)	To study the locational factors of economic activities with special		
	reference toagriculture and industry.		
vii	To study the basics concepts related to manufacturing and major		
	manufacturing industries of selected countries of the world.		

C) Course Syllabi:

(CR = Credits / IH: Instructional Hours)

Modules	CR	IH
Module – I Introduction to Economic Geography		
1.1 Meaning and Definition of Economic Geography	01	15
1.2 Nature and Scope of Economic Geography		10
1.3 Branches of Economic Geography		
1.4 Significance of Economic Geography		
Module – II Economic Activity	01	15
2.1 Concept and Classification of Economic Activity		

2.2 Factors Affecting on Location of Agricultural Activity		
2.3 Factors Affecting on Location of Industrial Activity		
2.4 Alfred Weber's Theory of Industrial Location		
Module – III Major Industries	_	
 3.1 Agro-based Industries i) Cotton Textile Industry – USA ii) Sugar Industry – Brazil 		
3.2 Non- agricultural Industries		
i) Iron and Steel Industry – USA	01	15
ii) Automobile Industry – India		
3.3 Service Industries		
i) Tourism Industries		
ii) Geo-spatial Industries		
Module – IV Transport and Trade		
4.1 Significance of Transportation		
4.2 Major Transport Routs: Roadway, Railway, Airway and Ocean Routs	01	15
4.3 International Trade: India and USA		
4.4 Trade Policies: India and USA		

D) I	D) Reference Materials		
1	Alexander J. W., (1963): Economic Geography, Prentic Hall Inc		
	Englewood Cliffs,		
2	New Jersey.Boesch H. (1964): A Geography of world		
	Econimy" D. Van Nostrand co. New york.		
3	Coe N. M., and others, (2007): Economic Geography: A Contemporary		
	Introduction, Wiley-Blackwell.		

4	Combes P., Mayer T. and Thisse J. F., (2008) Economic Geography: The
	Intergration of Regions and Nations, Princeton University Press.
5	Goh Chang & morgan, G.C. (1997): Human and Economic Geography, oxford University Press.
6	H. Robinson (1978): Economic Geography, Macdonaid & Evans.
7	Hamilton, I (1992) : Resources and Jndurtry, Oxford University Press New York.
8	Hartshorn, T.N. and Alexander, J.W. (1994): Economic
	Geography, prentice
9	Hall, New Delhi.Hodder B. W. and Lee Roger, (1974):
	Economic Geography, Taylor and Francies.
10	Meyer, B. S., Aanderson, D. B. and Bohning, R. H. (1960): An
	Introduction to Plant Physiology, Von Nostrand Company, New York.
11	Roborstson D (2001) : Globalization and Environment E. elgar CO.U.K.
12	Sadbukhan S. K. (1990): Economic Coography An Appraical of
	Resources S Chand and Company I to New Delhi
13	Truman A Hartshorn and John W Alexander (1988): Economic
15	Geography, PHI Learning Private Limited, New Delhi
14	Walker, D. F., Collins, L. (Eds.), (1975): Locational Dynamics of
	Manufacturing Activity, JohnWiley and Sons, New York.
15	Wheeler J. O., (1995) : Economic Geography John wiely, New York.
16	White H.P. and senior M.L. (1983) Transport Geography,
17	Longman, London.Willington D. E., (2008): Economic Geography,
	Husband Press.
18	Zimmermann F. W. (1933): World's Resources and Industries. Harper
	and Row. New York
19	
17	खतीब के.ए आर्थिक भूगोल,अजब प्रकाशन ,कोल्हापूर
20	घारपुरे विव्ठल – आर्थिक भूगोल ,पिंपळापुरे आणि कं.नागपूर
21	सवदी,कोळेकर-आधुनिक भूगोल ,निराली प्रकाशन ,पुणे
22	सवदी,कोळेकर(२००८)-भूगोलाची मुलतत्वे,निराली प्रकाशन ,पुणे

E) Suggested methods of Teaching:		
i)	Lecture	

F) Course Outcomes:		Blooms
		Taxonomy
CO1	In depth understanding about the economic geography.	
CO2	Detailed knowledge about locational factors	
	of economic activities with special reference to	
	agriculture and industry.	
CO3	Detailed understanding of the basics	
	concepts related to manufacturing and major	
	manufacturing industries (selected countries) of	
	the world.	
CO4	Understanding of the transport and trade.	

G) Scheme of Course Evaluation		
1.	End Semester Examination (ESE)	40
2.	Continuous Internal Evaluation (CIE)	10
3.	Total Marks	50

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)		
1.	List out Industries of district	10
2	List out industries / Economic activities of own village/City	10

I) Quest	I) Question Paper Pattern (40 Marks)		
Q. No.	Nature / Type of Question	Marks	
1.	Multiple Choice Questions (5X1)	05	
2.	Write short note (any 3 out of 5) (3X5)	15	
3.	 A) Long/broad question (10) Or Long/broad question (10) B) Long/broad question (10) Or Long/broad question (10) 	20	
	Total Marks	40	

Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur

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Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part	III
Semester	VI
Course Code	DSC E 11
Course Name	Geography
Course Title	Urban Geography
Paper No.	XI

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur (New syllabus under Autonomy to be introduced from June 2023 onwards)

(New syllabus under Autonomy to be introduced from June, 2023 onwards)				
A) Primary Information:				
Programme	Programme Bachelor of Arts CBCS			
Part	III Semester VI			
Course	B.A.	Course Code	DSC E11	
Paper No.	XI	Course Type	Semester	
Total Marks	50 Marks Implementation 2023-24			
Total Credits04Contact Hours04/Week				
Course Title Urban Geography				

B) Cou	B) Course Objectives:		
i)	To Study the basic of Urban Geography.		
ii)	To Study the types of Urban Settlements, Site and Situations.		
iii)	To get an ideas of relationship between human activities and urban development.		
iv)	To make the students capable for handling the present problematic situation in Urbanand rural areas.		
v)	To make students as a good urban planner and environmental conservator.		

C) Course Syllabi:

(CR = Credits / IH: Instructional Hours)

Modules	CR	IH
Module – I Introduction to Urban Geography		
1.1.Urban Geography: Meaning, Definitions, Scope, and		
Significance		15
1.2. Urban Geography characteristics		
1.3 Approaches of Urban Geography		
1.4 Census Concept of Urban areas		
Module – II Urbanization		
2.1 Site and Situation: Significance and Types		
2.2 Concept and Factors of Urbanization: Physical and Economical		15
2.3 Urbanization in the world: Trend and Patterns		
2.4 Functional classification of cities (Quantitative and Qualitative)		
Module - III Structure and Morphology of Urban Centers	01	15

3.1 Structure and Morphology	_	
3.2. City Region and C.B.D.	_	
3.3 Rural-Urban Fringe		
3.4 Models of Town Morphology: The Concentric Zone Theory, the SectorTheory and the Multi-Nuclei Theory		
Module – IV Urban Problems and Issues		
4.1. Urban Issues &. Challenges: Urban. Housing, Water supply,		
traffic congestion, solid waste, smog, slums, crime, sewage and		
drainage system.		
4.2. Concept of Garden City	01	15
4.3. Urban Planning Programmes and scheme in India		
(Smart Cities, AMRUT, HRIDAY, Housing for All, Total		
Sanitation Programme, RuRBAN Mission etc)		
4.4. Case studies of Mumbai and Chandigarh with reference to Land		
use and Urban Issues		

D) F	D) Reference Materials		
1	Tim Hall. (1998): Urban Geography, Routtedge ,London		
2	Verma L.N.: Urban Geography, Rawat Publications, Jaipur.		
3	Johnson J. H. (1967): Urban Geography, An Introductory Analysis.		
4	Hudson F : SettlementGeogrpahy		
5	Bose A., : India's Urbanization 1974-2000, Tata McGraw Hill, New Delhi.		
6	Carter H. (1972): The study of urban Geography, Edward Arnold, London.		
7	Smailes A. E. : The Geography of Towns.		
8	Taylor and Pntnam : Geography of UrbanPlaces.		
9	देशपांडे सी.डी.(१९८३), शहरे – कॉन्टिनेनटल प्रकाशन, पुणे		
10	सवदी-कोळेकर (२००५) आधुनिक भूगोल निराली प्रकाशन ,पुणे		
11	के.ए. खतीब(२००७)- वसाहत भूगोल अजब प्रकाशन,कोल्हापूर		

E) Suggested methods of Teaching:		
i)	Lecture	

F) Course Outcomes:		Blooms
		Taxonomy
CO1	The students were known the importance of urban	
	settlements through urbangeography.	
CO2	The students understood the types of Urban	
	Settlements, Site and Situations.	
CO3	The students were familiar with an idea of elationship	
	between human activitiesand urban development.	
CO4	Detail understanding of students regarding present	
	Urban problems and students arecapable to handling	
	of present problematic situations in urban areas.	
CO5	The students are developed as a good urban planner	
	and environmental conservator.	

G) Scheme of Course Evaluation		
1.	End Semester Examination (ESE)	40
2.	Continuous Internal Evaluation (CIE)	10
3.	Total Marks	50

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)		
1.	Local Area Planning/Preparation of	10
	revised land use / viva-voce	
	Total Marks	10

I) Question Paper Pattern (40 Marks)		
Q. No.	Nature / Type of Question	Marks
1.	Multiple Choice Questions (5X1)	05
2.	Write short note (any 3 out of 5) (3X5)	15
3.	A) Long/broad question (10) Or Long/broad question (10) B) Long/broad question (10) Or Long/broad question (10)	20
	Total Marks	40

Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur

Mahavir Mahavidyalaya, Kolhapur (Autonomous)

Affiliated to Shivaji University, Kolhapur



Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part	III
Semester	VI
Course Code	DSC E12
Course Name	Geography
Course Title	Political Geography
Paper No.	XII

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur 11 . 1 **(N**T. л.)

(New syllabus under Autonomy to be introduced from June, 2023 onwards)					
A) Primary Inform	A) Primary Information:				
Programme	Bachelor of Arts	CBCS			
Part	III	Semester	VI		
Course	B.A.	Course Code	DSC E12		
Paper No.	XII	Course Type	Semester		
Total Marks	50 Marks Implementation 2023-24				
Total Credits	redits 04 Contact Hours 04/Week				
Course Title Population Geography					

B) Course Objectives:				
i)	To study the Political geograp			

i)	To study the Political geography as a fundamental branch of Human
	Geography.
ii)	To familiarize the students with the basics and fundamental concepts and theories of Political Geography.
iii)	To aware the students about resource conflicts and politics of displacement.

C) Course Syllabi:

(CR = Credits / IH: Instructional Hours)

Modules	CR	IH
Module I Introduction to Political Geography		
1.1 Definition of Political Geography	01	15
1.2 Nature and Scope of Political Geography	01	10
1.3 Approaches of Political Geography		
1.4 Significance of Political Geography		
Module II Concepts in Political Geography		
2.1 State		
2.2 Nation		15
2.3 Boundary		
2.4 Frontiers		
Module III Geopolitics and Theories in Political Geography		
3.1 Geopolitics	01	15
3.2 Hartland Theory - Halford J. Mackinder		
3.3 Rimland Theory – Nicholas J. Spykeman		
Module IV Border Disputes and Resource Conflicts	01	15

4.1 Border dispute of India- China, Pakistan and Nepal	
4.2 Water sharing dispute - Krishna, Godavari and Cauvery	
4.3Rehabilitation issues of water project: Koyana and Dudhganga	
Project	

D) F	Reference Materials
1	Adhikari, S. (1997): Political Geography, Rawat Publications, Jaipur.
2	Dikshit, R. D. (1985): Political Geography, A Contemporary Perspective, McGraw Hill, New Delhi
3	Dwivedi, R. L. (1996): Political Geography, ChaitanyaPrakashan, Allahabad.
4	Muir, Richand (1995): Modern Political Geography, Macmillan, London.
5	Pounds, N. J. G. (1972): Political Geography 2nd Ed. McGraw Hill, N. Y.
6	Sharma, T. C.: Political Geography.
7	Agnew J., 2002: Making Political Geography, Arnold.
8	Agnew J., Mitchell K. and Toal G., 2003: A Companion to Political Geography, Blackwell.
9	Cox K. R., Low M. and Robinson J., 2008: The Sage Handbook of Political Geography, Sage Publications.
10	Cox K., 2002: Political Geography: Territory, State and Society, Wiley-Blackwell
11	Gallaher C., et al, 2009: Key Concepts in Political Geography, Sage Publications.
12	Glassner M., 1993: Political Geography, Wiley.
13	Jones M., 2004: An Introduction to Political Geography: Space, Place and Politics, Routledg.
14	Mathur H M and M M Cernea (eds.) Development, Displacement and Resettlement – Focus on Asian Experience, Vikas, Delhi
15	Painter J. and Jeffrey A., 2009: Political Geography, Sage Publications.
16	Taylor P. and Flint C., 2000: Political Geography, Pearson Education.
17	Verma M K (2004): Development, Displacement and Resettlement, Rawat Publications, Delhi
18	Hodder Dick, Sarah J Llyod and Keith S McLachlan (1998), Landlocked States of Africa and Asia (vo.2), Frank Cass

E) Suggested methods of Teaching:i)Lecture

F) Course Outcomes:		Blooms Taxonomy
CO1	Familiarized with the basics and fundamental concepts of political geography including state, nation, territory, hour daries frontions approaches	
	boundaries, frontiers, approaches.	
CO2	Understand and compare theories of political	

	geography	
CO3	Know about resource conflicts and politics of	
	displacement.	
CO4	Engage quality information about contemporary	
	political issues and explore our role within them;	
CO5	Understand the linkages between geography and	
	political policy and processes.	

G) Scheme of Course Evaluation		
1.	End Semester Examination (ESE)	40
2.	Continuous Internal Evaluation (CIE)	10
3.	Total Marks	50

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)		
1.	Group Presentation on Water sharing dispute of any rivers.	10
2.	Group Presentation on boundary dispute of any Frontline village of Maharashtra-Karnataka	
	Total Marks	10

I) Question Paper Pattern (40 Marks)		
Q. No.	Nature / Type of Question	Marks
1.	Multiple Choice Questions (5X1)	05
2.	Write short note (any 3 out of 5) (3X5)	15
3.	A) Long/broad question (10)	
	Or	
	Long/broad question (10)	20
	B) Long/broad question (10)	20
	Or	
	Long/broad question (10)	
	Total Marks	40

Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur

Mahavir Mahavidyalaya, Kolhapur (Autonomous)

Affiliated to Shivaji University, Kolhapur



Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part	III
Semester	VI
Course Code	DSC E13
Course Name	Geography
Course Title	Fundamentals of Map Making and
Course mine	Map Interpretation
Paper No.	XIII

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur (New syllabus under Autonomy to be introduced from June 2023 onwards)

(New syllabus under Autonomy to be introduced from June, 2023 onwards)					
A) Primary Information:					
Programme	Programme Bachelor of Arts CBCS				
Part	III	Semester	VI		
Course	B.A.	Course Code	DSC E13		
Paper No.	XIII	Course Type	Semester		
Total Marks	100 Marks Implementation 2023-24				
Total Credits08Contact Hours04/Week					
Course Title Fundamentals of Map Making and Map Interpretation					

B) Course Objectives:

DJCOU	Course objectives.		
i)	To introduce the students with the importance of map making and map		
	Interpretation.		
ii)	To make the students to understand map, concept of scale and concept of projection.		
iii)	To provide training in analysis of landforms.		
iv)	To give basic information to the students about S.O.I. topomaps and I.M.D. weather maps.		
v)	To develop the skill of map Interpretation among the students.		
vi)	To familiarize the students with the different cartographic techniques and methodsused for representation of demographic and physio- socio-economic database.		

C) Course Syllabi:

(CR = Credits / IH: Instructional Hours)

Modules	CR	IH
Module – I: Introduction to Map and Scales		
1.1 Map		
1.1.1 Map: Definition and Elements		
1.1.2 Classification of Maps: Based on Scale and Purpose		
	01	50
1.2 Scale		
1.2.1 Meaning and Definition,		
1.2.3 Methods of Representation of scale - Verbal, Numerical and Graphical.		
1.1.3 Scale Conversion		

1.1.4 Construction of Graphical Scale –		
i) Simple (Plane Scale)		
ii) Time and Distance Scale iii) Diagonal Scale		
Module II: Map Projection		
2.1 Definition, Classification of Projections:		
a) Based on the methods of Construction: Perspective and Non-perspective		
 b) Based on Developable Surface used: Conical, Cylindrical, Zenithal, Conventional. 		
c) Based on Position of Tangent Surfaces: Polar, Equatorial (normal), Oblique.		
 d) Based on Position of view point or light: Gnomonic, Stereographic, Orthographic 		
e) Based on Preserved qualities	01	50
i) Equal area projection (Homolographic)	01	50
ii) Orthographic Projection		
iii) Azumuthal Projection (True Bearing		
Projection)		
2.2 Graphical Construction of the following Projections with		
Properties and Use:		
1) Zenithal Polar Gnomonic Projection		
ii) Simple Conical Projection with one standard Parallel		
iv) Cylindrical Equal Area Projection		
v) Mercator's Projection and Reference to Universal		
Transverse Mercator (UTM) Projection		
Identification, Mapping of Slope, Relief Features and Profiles		
 3.1 Slope and Gradient 3.1.1 Types of Slope: Gentle, Steep, Even, Uneven, Convex 		
Concave, Terraced.	01	50
3.1.2 Representation of Relief by Contours: Hill, Mountain,		
Ridge, Cliff, Saddle, Plateau, Knoll, Spur, Col or Pass,		
Volcanic Col or Crater, Gorge, 'V' Shaped Valley,		
	1	

Waterfall, 'U' Shaped Valley, Cirque, Hanging Valley, Ria		
Coast, Fiord Coast, Sea cliff.		
3.1.3 Expression of Slopes: a) Gradient b) Degree c) Per Cent d) Mills		
3.2 Profiles		
3.2.1Superimposed Profile		
3.2.2 Composite Profile		
3.2.3 Projected Profile		
3.2.4 Longitudinal Profile		
Module – IV : Topographical Maps		
4.1 Indexing of S.O.I. Topographical Map	-	
4.2 Signs, Symbols and Colors used in SOI Toposheet		
4.1 Interpretation of S.O.I.'s Topographical Maps	01	-0
a) Marginal Information	01	50
b) Physical environment: Relief, Drainage and Vegetation		
c) Cultural environment: Settlements, transportation and Communication,Irrigation.		
Module V: Weather Instruments and IMD Maps		
 5.1 Study of weather Instruments with reference to Principle, Mechanism, and Function a) Thermograph b) Barograph c) Dry and Wet Bulb Thermometer d) Cup Anemometer e) Rain Gauge 		70
5.2 Isobaric Patterns: Cyclone, Anticyclone, Col, Ridge, Secondary Depression		70
5.3 Signs and Symbols used in Indian Daily Weather Maps5.4 Interpretation of Indian Daily Weather Maps Marginal Information, Pressure, Winds, Clouds, Rainfall, Other Conditions, Sea Condition, Temperature departure from normal		
Module VI : Representation Techniques of Statistical Data a) Divided Rectangle b) Proportional Circle c) Proportional Sphere 		30

d) Choropleth Mape) Dot Mapf) Isopleths	
Module VII: Journal and Viva Voce	

D) F	Reference Materials	
1	Bygoot, J: An Introduction to Mapwork and Practical Geography, University Tutorial,London 1964.	
2	Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 199	
3	Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept PublishingCompany, New Delhi, 2000	
4	Monkhouse F.I. and Wilkison, H.R.: Maps and Diagrams, Mathuen. London, 1971.	
5	Negi. , Dr. Balbir Singh : Practical Geography, Kedar Nath Ram Nath, Meerut, Delhi	
6	Paige E. Principals of Cartography McCraw Hill Paak Com. Inc. New York 1962	
7	Raisz, E.: Principals of Cartography, McGraw Hill book Colli., Inc, New York, 1962.	
,	Robinson, A.H. and Sale, S.D.: Elements of Cartography, John Witey and Sons, Inc, New York, 1969.	
8	Saha, Pijushkanti and Basu Partha : Advanced Practical Geography – A Laboratory Manual Books and Allied (P) Ltd, Kolkata. 2010	
9	Sarkar, Ashis : Practical Geography: A systematic Approach, Orient Longman limited, Calcutta, 1997.	
10	Singh, Gopal : Map work and Practical Geography Vikas Publishing House Pvt. Ltd. New Delhi, 1996.	
11	Singh, R and Kanaujia, L.R.S.: Map Work and Practical Geography, Central Book Depot, Allahabad.	
12	Singh, R. L. and Rana P.B. : Elements of Practical Geography, Kalyani Publishers,	
	New Delhi – Ludhiana, 1998.	
13	Aher A. B., Chodhari A. P. & Bharambe S. N. Techniques of Spatial Analysis	
	Prashant Publication Jalgaon 2015	
14	Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography,	
	McGraw Hill, New York, 1974.	
15	P. Saha and P. Basu (2006): Advanced Practical Geography, Books and Allied	
1(Publication, Kolkata, India. Khullar, Essentials of Practical Coography, Now Academic Publishing Co. India	
10	Rituliar, Essentials of Fractical Geography, New Academic Fublishing Co, India.	
10	Singh L K (2011): Fundamentals of Practical Geography	
10	Khan Za (1998): Text Book of Practical Geography	
19	कुंभार अर्जुन 'प्रात्यक्षिक भूगोल'	

E) Suggested methods of Teaching:i)Lecture, Practical work

F) Course Outcomes:		Blooms
-		Taxonomy
CO1	In depth understanding the map, concept of	
	scale and projection.	
CO2	Detailed knowledge about the analysis of landforms and its identification.	
CO3	The students are deeply aware about basic	
	information to the students about S.O.I.	
	topomaps and I.M.D. weather maps and	
	obtained the skills about map interpretation.	
CO4	The students are deeply familiar with different	
	cartographic techniques and methods used for	
	representation of demographic and physio-	
	socio-economic database	

G) Scheme of Course Evaluation		
1.	End Semester Examination (ESE)	100
3.	Total Marks	100

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)			
Total Marks			

I) Question Paper Pattern (100 Marks)		
Q. No.	Nature / Type of Question	Marks
1.	Practical work	15
2	Practical work	15
3	Practical work	15
4	Practical work	15
5	Practical work	20
6	Practical work	10
7	Journal and Viva voce	10
	Total	100

Shri Acharyaratna Deshbhooshan Shikshan Prasarak Mandal, Kolhapur

Mahavir Mahavidyalaya, Kolhapur (Autonomous)

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Syllabus for Choice Based Credit System (CBCS) Bachelor of Arts Programme

Programme	Bachelor of Arts
Part	III
Semester VI	
Course Code	DSC E14
Course Name	Geography
Course Title	Advanced Tools, Techniques & Field
Course Thie	Work in Geography
Paper No.	XIV

Under the Faculty of Arts

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur 11 . 1 . /**h** T л.)

(New syllabus under Autonomy to be introduced from June, 2023 onwards)					
A) Primary Inform	A) Primary Information:				
Programme	Programme Bachelor of Arts CBCS				
Part	III	Semester	VI		
Course	B.A.	Course Code	DSC E14		
Paper No.	XIV	Course Type	Semester		
Total Marks	100 Marks	Implementation	2023-24		
Total Credits08Contact Hours04/Week			04/Week		
Course Title Fundamentals of Map Making and Map Interpretation					

B) Course Objectives:

i)	Introduce the students with the importance of field work and advanced
	Techniques in Geography.
ii)	Provide training in application of modern tool and techniques in Geography.
iii)	Enable the students to understand the use of computer for analysis of
	Geographical data.
iv)	Enhance the skill of the students in instrumental survey.
v)	Give basic information to the students about Arial Photographs, Remote Sensing, GIS and GPS.
vi)	To familiarize the students with the different cartographic techniques and methodsused for representation of demographic and physio- socio-economic database.

C) Course Syllabi: (CR = Credits / IH: Instructional Hours)

Modules	CR	IH
Module – I: Introduction to Map and Scales		
1.1 Definition and Characteristics of Computer		
1.2 Application of computer in geography	01	50
1.2.1. Construction of Line Graphs, Bar Graphs		
1.2.2 Construction of Pie Diagram and Scatter Diagram		
1.3 Application of Excel for Data Analysis		
1.3.1. Calculation of Mean, Median, mode For simple data)		
1.3.2 Calculation of Standard Deviation For simple data)		
Module:-II: Remote Sensing		
2.1 Definition of Remote Sensing		50
2.2 Fundamentals of Remote Sensing: EMR, Sensors and Platforms]	

2.3 Application of Remote Sensing in Geography		
2.4 Aerial photographs and Satellite imagery: Definition, types and difference		
2.5 Determination of Photo Scale		
2.6 Elements of image interpretation		
2.7 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery		
Module-III: GIS and GNSS		
3.1 Geographical Information System (GIS)3.1.1 Definition and components		
3.1.2 GIS Data Structure: spatial and non-spatial data		
3.1.3 Georeferencing, Digitization, Map Layout Preparation3.1.1 Application of GIS in Geography	01	50
 3.2 Global Navigation Satellite System 3.1.1 Definition and components 3.2.2 GPS applications in Geography 3.3.3 Determining latitude, longitude and altitude with the help of GPS 2.2 Evertise with Geogle carth Program (Point Line and Polygon) 		
3.3 Exercise with Google earth Program (Point, Line and Polygon)	ļ	
Module-IV: Statistical methods and techniques	-	
4.1 Measures of Central Tendency: Mean, Median and Mode	01	(0)
4.2 Dispersion: Mean Deviation and Standard Deviation	01	60
4. 3 Association and Correlation: Karl Pearson's Method		
(Product Moment)		
4.4 Analysis of Time Series: Semi-average Method	ļ	
Module-V: Surveying		
5.1 Introduction to Survey: Meaning and types		
 5.2 Preparation of plans of the given area with any one of the following survey method A- Plane Table survey (Radial, Intersection, and Traverse method) 		70
B- Dumpy Level survey		
C- Theodolite survey		
D- Total Station		
E- Abony Level Survey		

5.3 Preparation of plans Prismatic compass survey	
5.1.1 Radial, Intersection and Traverse method	
5.1.2 Types and conversion of bearings	
5.1.3 Correction of bearing	
Module-VI: Project work based on field work any one of following	
 Resource survey, Population survey, Agricultural survey, Settlement Survey, Environmental issues, Industrial visit, Health survey, Natural Hazard or Disaster Project Report must be content of following points: Introduction – Aims – Objectives - Review of the literature – Data collection – Methodology - Data Analysis – Interpretation - Findings – Suggestions - Bibliography The duration of the field work should not exceed than 20 days The word count of the report should be about 8000 to 12,000 excluding figures, tables, photographs, maps, references and appendices One copy per student of the report as per research standard should be Submitted at the timeof examination. 	
 Module- VII: Study Tour Maximum 15 days of Study Tour and preparation of Tour Report. The Study Tour Report must be content of following points: Introduction – Necessity – Importance - Route map – Objectives – Methodology - Geographical Profile (Natural, Socio-economic and Cultural) - Geographical importance of visited tourist places – Conclusion – References 	

D) F	Reference Materials
1	Bygoot, J: An Introduction to Mapwork and Practical Geography, University
	Tutorial,London 1964.
2	Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 199
3	Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept
	PublishingCompany, New Delhi, 2000
4	Monkhouse F.J. and Wilkison, H.R.: Maps and Diagrams, Mathuen. London, 1971.
5	Negi. , Dr. Balbir Singh : Practical Geography, Kedar Nath Ram Nath, Meerut, Delhi
6	Raisz, E.: Principals of Cartography, McGraw Hill Book Com., Inc, New York, 1962.

7	Robinson, A.H. and Sale, S.D.: Elements of Cartography, John Witey and Sons, Inc, New York, 1969.
8	Saha, Pijushkanti and Basu Partha : Advanced Practical Geography – A Laboratory Manual Books and Allied (P) Ltd, Kolkata. 2010
9	Sarkar, Ashis : Practical Geography: A systematic Approach, Orient Longman limited, Calcutta, 1997.
10	Singh, Gopal : Map work and Practical Geography Vikas Publishing House Pvt. Ltd. New Delhi, 1996.
11	Singh, R and Kanaujia, L.R.S.: Map Work and Practical Geography, Central Book Depot, Allahabad.
12	Singh, R. L. and Rana P.B. : Elements of Practical Geography, Kalyani Publishers, New Delhi – Ludhiana, 1998.
13	Aher A. B., Chodhari A. P. & Bharambe S. N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015
14	Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
15	P. Saha and P. Basu (2006): Advanced Practical Geography, Books and Allied Publication, Kolkata, India.
16	Khullar, Essentials of Practical Geography, New Academic Publishing Co, India.
17	Singh L R (2011): Fundamentals of Practical Geography
18	Khan Za (1998): Text Book of Practical Geography
19	Lo C. P., Albert K. W. Yeung, (2011): Concepts and Techniques of Geographic
	Information Systems, PHI Learning Private Limited, New Delhi-110001.
20	कुंभार अर्जुन 'प्रात्यक्षिक भूगोल'

E) Suggested methods of Teaching:i)Lecture, Practical work

F) Course Outcomes:		Blooms
		Taxonomy
CO1	In depth understanding the importance of field work and	
	advanced Techniques in Geography.	
CO2	The students are trained to implement modern tool and	
	techniques in Geography.	
CO3	Detailed knowledge about the use of computer for	
	analysis of Geographical data.	
CO4	The students are deeply aware about the basics and	
	trained in instrumentalsurvey.	
CO5	The students are deeply familiar with computer, GIS,	
	GPS and Remote Sensing.	

G) Scheme of Course Evaluation		
1.	End Semester Examination (ESE)	100
3.	Total Marks	100

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)

Total Marks	

I) Question Paper Pattern (100 Marks)			
Q. No.	Nature / Type of Question Marks		
1.	Practical work	15	
2	Practical work	15	
3	Practical work	15	
4	Practical work	15	
5	Practical work	20	
6	Practical work	10	
7	Journal and Viva voce	10	
	Total	100	

Shri AcharyaratnaDeshbhooshanShikshanPrasarak Mandal, Kolhapur Mahavir Mahavidyalaya, Kolhapur (Autonomous)

Affiliated to Shivaji University, Kolhapur

New Syllabus For

Bachelor of Arts [B.A. in Geography]

UNDER

Faculty of Science and Technology

B. A. Part- II (Semester- III)

STRUCTURE AND SYLLABUS IN ACCORDANCE WITH

NATIONAL EDUCATION POLICY - 2020

HAVING CHOICE BASED CREDIT SYSTEM (CBCS)

WITH MULTIPLE ENTRY AND MULTIPLE EXIT OPTIONS (MEME)

(TO BE IMPLEMENTED FROM ACADEMIC YEAR 2024-25 ONWARDS) Subject to the revisions& modifications made from time to time

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur

(New syllabus under Autonomy to be introduced from June, 2024 onwards)

A) Primary Information:				
Programme	Bachelor of Arts (CBCS)			
Part	III	Semester	V	
Course	Geography	Course Code		
Paper No.	III	Course Type	Semester	
Total Marks	50 Marks	Implementation	2024 - 25	
Total Credits	02	Contact Hours	02/Week	
Course Title INTRODUCTION TO WATER ANALYSIS				

B) C	B) Course Objectives:		
i)	To learn various sources of water.		
ii)	To understand water quality parameters, the characteristics of water		
	and the water borne diseases.		
iii)	To study the procedures of collection of water Samples and an		
	instruments used for water analysis.		
iv)	To analyse the parameters of water analysis and water analysis		
	methodology.		

C) Course Syllabi:		
(CR = Credits / IH: Instructional Hours)		
Modules	CR	IH
Module-1 Water as A Component of Environment		
1.1 Sources of Water		
1.2 Utilization of Water	01	15
1.3 Characteristics of water		
1.4 Water borne diseases		
Module-2 Water Analysis		
2.1 Procedures of Collection of waterSamples		
2.2 Instruments used for water analysis		15
2.3 Parameters of water analysis		
2.4 Water analysis methodology		

D) Ref	D) Reference Materials		
	D1) Text Books for Reading		
1.	Standard Methods for the Examination of Water and Wastewater -		
	American Public HealthAssociation, American Water Works		
	Association, Water Environment Federation.		
2.	Water Quality Assessments: A Guide to the Use of Biota, Sediments		
	and Water in EnvironmentalMonitoring - Deborah V. Chapman		
	(Editor).		
3	Water Quality: Guidelines, Standards and Health - Lorna Fewtrell		
	and Jamie Bartram.		
4	Environmental Engineering: Water, Wastewater, Soil and		
	Groundwater Treatment and Remediation -Nelson L. Nemerow and		
	Franklin J. Agardy.		
5	BIS 10500:2012 - Drinking Water Specification		
6	BIS 2296:1982 - Specifications for Packaged Natural Mineral Water		
7	BIS 3025:1983 - Methods of Sampling and Test (Physical and		
	Chemical) for Water and Waste Water		
8	BIS 3589:2001 - Methods of Sampling and Test (Physical and		
	Chemical) for Water and Waste Water (Revision of IS 3025)		
9	BIS 1622:2008 - Drinking Water - Specification		
10	BIS 3025:1964 - Methods of Sampling and Test (Physical and		
	Chemical) for Water and Waste Water. Shivaji University, Kolhapur		

E) Suggested methods of Teaching:		
i)	Lecture	
ii)	Practical	

F) Co	urse Outcomes:	Blooms Taxonomy
CO1	Comprehensive understanding of various	
	sources of water.	
CO2	The students will be understood water	
	quality parameters and characteristics of	
	water, which helpsto usefulness for	
	assessment of water resources.	

CO3	The students will be able to the procedures	
	of collection of water Samples and an	
	instrumentused for water analysis.	
CO4	The students will practically understand the	
	parameters of water analysis and water	
	analysismethodology.	

G) Scheme of Course Evaluation			
1.	End Semester Examination (ESE) 40		
	(Project submission)		
2.	Continuous Internal Evaluation (CIE)	10	
3.	Total Marks	50	

H) Suggested techniques for Continuous Internal Evaluation				
(10 Marks)				
1.	Viva	10		
	Total Marks	10		
	·			

I) Question Paper Pattern (40 Marks)				
Q.	Nature / Type of Question Marks			
No.				
1.				
	Total Marks			

Shri AcharyaratnaDeshbhooshanShikshanPrasarak Mandal, Kolhapur Mahavir Mahavidyalaya, Kolhapur (Autonomous)

Affiliated to Shivaji University, Kolhapur



New Syllabus For Bachelor of Arts [B.A. in Geography]

UNDER

Faculty of Science and Technology

B. A. Part- II (Semester- III)

STRUCTURE AND SYLLABUS IN ACCORDANCE WITH

NATIONAL EDUCATION POLICY - 2020

HAVING CHOICE BASED CREDIT SYSTEM (CBCS)

WITH MULTIPLE ENTRY AND MULTIPLE EXIT OPTIONS (MEME)

(TO BE IMPLEMENTED FROM ACADEMIC YEAR 2024-25 ONWARDS) Subject to the revisions& modifications made from time to time

Mahavir Mahavidyalaya, Kolhapur (Autonomous) Affiliated to Shivaji University, Kolhapur

(item synus us under mutonomy to be introduced from june, =o=1 ontrol us)				
A) Primary Information:				
Programme	ogramme Bachelor of Arts CBCS			
Part	III	Semester	VI	
Course	Geography	Course Code		
Paper No.	III	Course Type	Semester	
Total Marks	50 Marks	Implementation	2024 - 25	
Total Credits	02	Contact Hours	02/Week	
Course Title WATER ANALYSIS				

(New syllabus under Autonomy to be introduced from June, 2024 onwards)

B) Course Objectives:		
i)	To identify and explain key water quality parameters.	
ii)	To learn various quality indices useful for drinking and irrigation water	
	analysis.	
iii)	To train the students for the interpretation of water quality data with	
	the comparison of regulatory standards.	

C) Course Syllabi:		
(CR = Credits / IH: Instructional Hours)		
Modules	CR	IH
Module-1 Physical Parameters of Water Analysis		
1.1 Colour		
1.2 Temperature		15
1.3 Odour and taste		
1.4 Transparency		
1.5 Turbidity		
1.6 Conductivity		
Module-2 Water Analysis		
2.1 pH		
2.2 TDS	01	4 F
2.3 BOD	01	15
2.4 COD		
2.5 Oil and Grease		

2.6 Pesticides

D) Reference Materials			
D1) Text Books for Reading			
1.	Standard Methods for the Examination of Water and Wastewater -		
	American Public HealthAssociation, American Water Works		
	Association, Water Environment Federation.		
2.	Water Quality Assessments: A Guide to the Use of Biota, Sediments		
	and Water in EnvironmentalMonitoring - Deborah V. Chapman		
	(Editor).		
3	Water Quality: Guidelines, Standards and Health - Lorna Fewtrell		
	and Jamie Bartram.		
4	Environmental Engineering: Water, Wastewater, Soil and		
	Groundwater Treatment and Remediation -Nelson L. Nemerow and		
	Franklin J. Agardy.		
5	BIS 10500:2012 - Drinking Water Specification		
6	BIS 2296:1982 - Specifications for Packaged Natural Mineral Water		
7	BIS 3025:1983 - Methods of Sampling and Test (Physical and		
	Chemical) for Water and Waste Water		
8	BIS 3589:2001 - Methods of Sampling and Test (Physical and		
	Chemical) for Water and Waste Water(Revision of IS 3025)		
9	BIS 1622:2008 - Drinking Water - Specification		
10	BIS 3025:1964 - Methods of Sampling and Test(Physical and		
	Chemical) for Water and Waste Water. Shivaji University, Kolhapur		

E) Suggested methods of Teaching:		
i)	Lecture	
ii)	Practical	

F) Course Outcomes:		Blooms Taxonomy
CO1	The comprehensive understanding of various	
	quality indices useful for assessment of water	
	resources.	
CO2	The selection and measure appropriate water	
	quality indices based on specific physical and	
	chemical objectives.	

CO3	Interpret the overall water qualities with a	
	comparison of BIS and WHO standards	

G) Scheme of Course Evaluation		
1.	End Semester Examination (ESE)	40
	(Project submission)	
2.	Continuous Internal Evaluation (CIE)	10
3.	Total Marks	50

H) Suggested techniques for Continuous Internal Evaluation (10 Marks)		
1.	Viva	10
	Total Marks	10

I) Question Paper Pattern (40 Marks)		
Q.	Nature / Type of Question	Marks
No.		
1.		
	Total Marks	