



પરિપત્ર:

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટીની આર્ટસ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજોનાં આચાર્યશ્રીઓને સવિનય જણાવવાનું કે આર્ટસ વિદ્યાશાખા હેઠળનો NEP-૨૦૨૦ અંતર્ગતનો ભુગોળ વિષયનો (બી.એ વિથ ઓનર્સ) નો સેમેસ્ટર-૪નો અભ્યાસક્રમ આ સાથે સામેલ છે.

માનનીય કુલપતિશ્રીની મંજૂરી અનુસાર સદર અભ્યાસક્રમ શૈક્ષણિક વર્ષ જુન, ૨૦૨૪-૨૫ થી અમલવારી કરવાની રહે છે. આર્ટસ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજો ધ્વારા તેની અમલવારી કરવા જણાવવામાં આવે છે.



[Signature]
29/01/2024
ખાસ ફરજ પરના અધિકારી
(એકેડેમિક)

ક્રમાંક/બીકેએનએમયુ/ એકેડેમિક/૩૭૯/૨૦૨૫

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી,

સરકારી પોલીટેકનિક કેમ્પસ,

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી રોડ,

ખડીયા, જૂનાગઢ-૩૬૨૨૬૩

તા. ૨૯/૦૧/૨૦૨૫

પ્રતિ,

- ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી સંલગ્ન આર્ટસ વિદ્યાશાખાનાં અભ્યાસક્રમો ચલાવતી તમામ કોલેજોના આચાર્યશ્રીઓ તરફ....

નકલ સાદર રવાના:-

- માન.કુલપતિશ્રી/કુલસચિવશ્રીનાં અંગત સચિવશ્રી.
- પરીક્ષા નિયામકશ્રી, ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી, જૂનાગઢ

નકલ રવાના જાણ તથા યોગ્ય કાર્યવાહી અર્થે:

- સીસ્ટમ મેનેજરશ્રી, આઇ.ટી.સેલ વિભાગ (વેબસાઇટ ઉપર પ્રસિદ્ધ થવા અર્થે.)



BHAKTA KAVI NARSINH MEHTA UNIVERSITY JUNAGADH



SYLLABUS FOR GEOGRAPHY BACHELOR OF ARTS (HONOURS) PROGRAMME (SEMESTER- IV) EFFECTIVE FROM JUNE, 2024-25

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A.** (Honors) as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV****SUMMARY OF THE SYLLABUS**

Sem No.	Sr. No.	Category of Course	Course Title	Course Level	Credit	Teaching Hrs.	SEE Marks	CCE Marks	Total Marks	Exam Duration
Sem-4	1	Major-8	Fundamentals of Oceanography	5.0	4	60	50	50	100	2:00 Hours
	2	Major-9	Socio-Economic Geography of India	5.0	4	60	50	50	100	2:00 Hours
	3	Major-10	Relief Features and Topographical Maps	5.0	3 + 1	60	50	50	100	2:00 Hours
	4	Minor-3	Introduction to Climatology	5.0	4	60	50	50	100	2:00 Hours
				Total	16					

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A. (Honors)** as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

Course Level	5.0	Internal Marks	50
Programme	B. A.	External Marks	50
Semester	04	Practical Internal	--
Category of Course	MAJOR – 8	Practical External	--
Course Credit	4	Prac. External Exam Duration	--
Teaching Hours	60	Total	100
Course Code		Exam Duration	2:00 Hours
Course Title	Fundamentals of Oceanography		

Course Objectives:

- To provide the basic conceptual framework of oceanography, its dynamism and the contemporary issues associated with Oceans.

Course Learning Outcomes: After completion of the course:

- Develop an understanding of the ocean bottom relief features of Indian, Atlantic and Pacific Ocean
- Understand and Characteristic of Ocean Water, Temperature- and its Distribution, Salinity instruments.
- Understanding the types of marine deposition and its relation with man

Course Contents

Sem	Unit No.	Syllabus	Teaching Hours
4	1	• Oceanography - Nature, Subject matter and Development, • Characteristics and Distribution of Land water, • Ocean Bottom Topography	15
	2	• Characteristic of Ocean Water, • Temperature- and its Distribution, • Salinity - Composition, Source, Factors and Distribution	15
	3	• Movement of Ocean Water - • Currents -Causes and Characteristics (Pacific, Atlantic, Indian) • Waves – Types and Distribution	15

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

		• Tides – Theories of Origin	
	4	• Ocean Deposits • Coral Reefs -Formation, Condition of Growth, Types, Theories of Origin • Sea level change – Causes and Consequences	15

Suggested Reading:

1. Garrison, Tom (2011): Essentials of Oceanography, 6th Edition, Book / Cole, California.
2. Khullar, D.R (2019): Physical Geography, Kalyani Publishers, Ludhiana.
3. Lal, D.S. (2015): Climatology and Oceanography, Sharda Pustak Bhawan, Allahabad.
4. Pinet, Paul R. (2019): Invitation to Oceanography; 8th Edition, Jones and Bartlett.
5. Sharma, R.C. and Vatal, M. (2018): Oceanography for Geographers, Surjeet Publications, New Delhi.
6. Singh, Savindra (2020): Biogeography, Pravalika Publications, Allahabad.
7. Singh, Savindra (2021): Oceanography, Pravalika Publications, Allahabad.

INTERNAL EVALUATION SCHEME		
NO	Particulars	Marks
1	Mid Semester Exam (Mandatory)	25
2	Class Test	05
3	Open book exam/test	05
4	Open note exam/test	05
5	Self-test/ Online test	05
6	Essay/Article writing	05
7	Quizzes/Objective test	05
8	Class assignment	05
9	Home assignment	05
10	Reports Writing	05
11	Research/Dissertation	05
12	Case Studies	05
13	Viva/Oral exam	05
14	Group Discussion	05
15	Role Play	05
16	Paper presentation/Seminar	05
17	Language Lab work	05
18	Interview	05
19	Craft work	05

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A. (Honors)** as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

20	Co-curricular work	05
21	Field Assignment	05
22	Poster Presentation	05
23	Attendance	05
24	Project Work	05
	Total	50

Note: Sr.No.1 is mandatory. Select any five from Sr.No.2 to 24.**Each Contains five marks. Student should secure 18 Marks for passing in internal Exam.****Paper Style:**

EXTERNAL ASSESSMENT BY UNIVERSITY		50 Marks
Que. No.	Particulars	Marks
Que. 1	(A) Essay Type Question (From Unit-1)	(10)
	OR	
	(B) Essay Type Question (From Unit-1)	
Que. 2	(A) Essay Type Question (From Unit-2)	(10)
	OR	
	(B) Essay Type Question (From Unit-2)	
Que. 3	(A) Essay Type Question (From Unit-3)	(10)
	OR	
	(B) Essay Type Question (From Unit-3)	
Que. 4	(A) Essay Type Question (From Unit-4)	(10)
	OR	
	(B) Essay Type Question (From Unit-4)	
Que. 5	Short Notes. (2/4) (One from each unit)	(10)

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A. (Honors)** as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

Course Level	5.0	Internal Marks	50
Programme	B. A.	External Marks	50
Semester	04	Practical Internal	--
Category of Course	MAJOR – 9	Practical External	--
Course Credit	4	Prac. External Exam Duration	--
Teaching Hours	60	Total	100
Course Code		Exam Duration	2:00 Hours
Course Title	Socio – Economic Geography of India-2		

Course Objectives:

- These objectives of this course are to give an overview of the land, people and economy of the India.
- The course aims to provide an understanding of the existing reality of resource utilization and environmental depletion.
- To sensitize the students with development issues and policies.

Course Learning Outcomes: After completion of the course:

- Understand the physical profile of the country.
- Study the resource endowment and its spatial distribution and utilization for sustainable development.
- Synthesize and develop the idea of regional dimensions.

Course Contents

Sem	Unit No.	Syllabus	Teaching Hours
4	1	• Animal wealth of India, Dairy Farming, White revolution and Marine Resources. • Agriculture: Characteristics of cropping pattern, Agricultures regions of India, their problems and remedies, Major crops (Wheat, Cotton, Rice, Tea, Sugarcane, Grand nut), Green revolution.	15
	2	• Major Multipurpose projects and their regional significance. • Industries - Location and Distribution of Major Industries – Iron and Steel, Aluminium, • Cotton Textile, Sugar, Petro Chemical and Allied, Cement.	15

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

		Industrial Regions, Special Economic Zones	
	3	Transportation: Road, Railways, Water routes, Air transportation, their distribution and development. Trade: National and international	15
	4	- Population structure, density and distribution of population in India and its problems. - Tourism Industry- Meaning and Types	15

Suggested Reading:

1. Singh R. L. India: A Region Geography National Geography Society of India Varanasi - 1971.
2. Sharma T. C.: Economic and Commercial Geography of India - Vika Publishing Hance Pvt. Ltd.
3. Wadia D. N. geology of India MC. Millan & Co. London – 1967.
4. Despande C.D. India – A Regional interpretation, Northern Book center New Delhi – 1992.
5. Dube R. N.: Economic & Geography of India.
6. Mamona G. B.: Advance Geography of India

INTERNAL EVALUATION SCHEME		
NO	Particulars	Marks
1	Mid Semester Exam (Mandatory)	25
2	Class Test	05
3	Open book exam/test	05
4	Open note exam/test	05
5	Self-test/ Online test	05
6	Essay/Article writing	05
7	Quizzes/Objective test	05
8	Class assignment	05
9	Home assignment	05
10	Reports Writing	05
11	Research/Dissertation	05
12	Case Studies	05
13	Viva/Oral exam	05
14	Group Discussion	05
15	Role Play	05
16	Paper presentation/Seminar	05
17	Language Lab work	05
18	Interview	05

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A. (Honors)** as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

19	Craft work	05
20	Co-curricular work	05
21	Field Assignment	05
22	Poster Presentation	05
23	Attendance	05
24	Project Work	05
	Total	50

Note: Sr.No.1 is mandatory. Select any five from Sr.No.2 to 24.**Each Contains five marks. Student should secure 18 Marks for passing in internal Exam.****Paper Style:**

EXTERNAL ASSESSMENT BY UNIVERSITY		50 Marks
Que. No.	Particulars	Marks
Que. 1	(A) Essay Type Question (From Unit-1)	(10)
	OR	
	(B) Essay Type Question (From Unit-1)	
Que. 2	(A) Essay Type Question (From Unit-2)	(10)
	OR	
	(B) Essay Type Question (From Unit-2)	
Que. 3	(A) Essay Type Question (From Unit-3)	(10)
	OR	
	(B) Essay Type Question (From Unit-3)	
Que. 4	(A) Essay Type Question (From Unit-4)	(10)
	OR	
	(B) Essay Type Question (From Unit-4)	
Que. 5	Short Notes. (2/4) (One from each unit)	(10)

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A. (Honors)** as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

Course Level	5.0	Internal Marks	25
Programme	B. A.	External Marks	50
Semester	04	Practical Internal	25
Category of Course	MAJOR – 10	Practical External	--
Course Credit	3 + 1	Prac. Exam Duration	1:00 Hours
Teaching Hours	60	Total	100
Course Code		Exam Duration	2:00 Hours
Course Title	Relief Features & Topographical Maps		

Course Objectives:

- Introduction of Topographical Maps, History of maps, Survey of India -Series Index Number
- Conventional Signs & Symbols used in Topographical Maps
- Topographical Maps- Interpretation (one each- hilly/plain area) and Slope Analysis (Wentworth's method).

Course Learning Outcomes: After completion of the course:

- Read and prepare maps.
- Comprehend locational and spatial aspects of the earth surface.
- Use and importance of maps for regional development and decision making.

Course Contents

Sem	Unit No.	Syllabus	Teaching Hours
4	1	Introduction of Topographical Maps • History of Topographical maps • Survey of India -Series – Index Number • Conventional Signs & Symbols used in Topographical Maps	12
	2	Interpretation of Topographical Maps- • Physical & Cultural (Two Toposheet)	12
	3	Primary Information, Relief features, Drainage, Natural Vegetation, Land use,	12
	4	Means of Irrigations, Human Settlement, Main occupation, Means of Transportation & Communication Population	12
	Practical	Practical Record: • A Project File comprising one exercise on interpretation of topographic sheet	12

BHAKTA KAVI NARSINH MEHTA UNIVERSITYSyllabus of **B.A. (Honors)** as per NEP-2020Faculty of **Arts**

Effective from June 2024-25

Subject: Geography**SEMESTER- IV****Suggested Reading:**

1. Anson, R., and Ormelling F. J., (1994): International Cartographic Association:
2. Basic Cartographic, Vol. Pregmen Press.
3. Singh, Gopal., (1998): Map Work and Practical Geography (4th Edition), Vikas Publishing House, Ahmedabad.
4. Gupta, K.K. and Tyagi V.C., (1992): Working with Map, Survey of India, DST, New Delhi.
5. Kraak, M.J., (2010): Cartography: Visualization of Geospatial Data (3rd edition), Pearson Education Ltd., London

INTERNAL EVALUATION SCHEME		
NO	Particulars	Marks
1	Mid Semester Exam/ Practical Exam (Mandatory)	25
2	Class Test	05
3	Open book exam/test	05
4	Open note exam/test	05
5	Self-test/ Online test	05
6	Essay/Article writing	05
7	Quizzes/Objective test	05
8	Class assignment	05
9	Home assignment	05
10	Reports Writing	05
11	Research/Dissertation	05
12	Case Studies	05
13	Viva/Oral exam	05
14	Group Discussion	05
15	Role Play	05
16	Paper presentation/Seminar	05
17	Language Lab work	05
18	Interview	05
19	Craft work	05
20	Co-curricular work	05
21	Field Assignment	05
22	Poster Presentation	05
23	Attendance	05
24	Project Work	05
	Total	50

Note: Sr.No.1 is mandatory. Select any five from Sr.No.2 to 24.**Each Contains five marks. Student should secure 18 Marks for passing in internal Exam.**

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV****Paper Style:**

EXTERNAL ASSESSMENT BY UNIVERSITY		50 Marks
Que. No.	Particulars	Marks
Que. 1	(A) Essay Type Question (From Unit-1)	(10)
	OR	
	(B) Essay Type Question (From Unit-1)	
Que. 2	(A) Essay Type Question (From Unit-2)	(10)
	OR	
	(B) Essay Type Question (From Unit-2)	
Que. 3	(A) Essay Type Question (From Unit-3)	(10)
	OR	
	(B) Essay Type Question (From Unit-3)	
Que. 4	(A) Essay Type Question (From Unit-4)	(10)
	OR	
	(B) Essay Type Question (From Unit-4)	
Que. 5	Short Notes. (2/4) (One from each unit)	(10)

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

Course Level	5.0	Internal Marks	50
Programme	B. A.	External Marks	50
Semester	04	Practical Internal	--
Category of Course	MINOR – 03	Practical External	--
Course Credit	4	Prac. External Exam Duration	--
Teaching Hours	60	Total	100
Course Code		Exam Duration	2:00 Hours
Course Title	Introduction to Climatology		

Course Objectives:

- The course provides an overview of the climatology, insolation, temperature, air pressure and air masses.
- It aims to shed light on the definition, nature, and scope of Climatology, composition of the atmosphere, insolation and heat budget, impact of temperature on weather and climate. Atmospheric pressure and circulation, air masses and special weather conditions.
- The course shall further focus on the climatic classification.

Course Learning Outcomes: After completion of the course:

- On completion of the course the student should have the following learning outcomes defined in terms of knowledge, skills and general competence.

Course Contents

Sem	Unit No.	Syllabi	Teaching Hours
4	1	Climatology and Atmosphere • Nature and scope of Climatology • Relationship of Climatology with Meteorology • Structure and composition of Atmosphere • Weather elements and climatic controls	15

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

	2	Insolation and Temperature • Insolation and heat balance of the Earth • Temperature - Vertical, horizontal, and seasonal variations • Processes of heat energy transport • Inversion of temperature	15
	3	Atmospheric pressure and Circulation • Atmospheric pressure – vertical and horizontal distribution • General Circulation of atmosphere • Types of winds – Geotropic, Gradient, and local winds	15
	4	Humidity and Precipitation • Air masses: Origin, classification, types • Fronts: frontogenesis and frontolyses – classification of fronts • Extra-tropical cyclones: formation and impacts	15

Suggested Reading:

1. Barry, R.S. & Chorley, R.J. (1971): Atmosphere, Weather and Climate, ELBS, Methuen & Co. Ltd., U.S.A.
2. Griffiths, J.F. (1966): Applied Climatology-An Introduction, Oxford University Press, London.
3. B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut
4. D.S. Lal (1998) Climatology. Chaitnya publishing house, Allahabad
5. Lal, D.S. (1997): Climatology, Sharda Pustak Bhawan, Allahabad.
6. K. Siddhartha (2001) Atmosphere, Weather and Climate. Kisalaya publication, New Delhi

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV**

INTERNAL EVALUATION SCHEME		
NO	Particulars	Marks
1	Mid Semester Exam (Mandatory)	25
2	Class Test	05
3	Open book exam/test	05
4	Open note exam/test	05
5	Self-test/ Online test	05
6	Essay/Article writing	05
7	Quizzes/Objective test	05
8	Class assignment	05
9	Home assignment	05
10	Reports Writing	05
11	Research/Dissertation	05
12	Case Studies	05
13	Viva/Oral exam	05
14	Group Discussion	05
15	Role Play	05
16	Paper presentation/Seminar	05
17	Language Lab work	05
18	Interview	05
19	Craft work	05
20	Co-curricular work	05
21	Field Assignment	05
22	Poster Presentation	05
23	Attendance	05
24	Project Work	05
	Total	50

Note: Sr.No.1 is mandatory. Select any five from Sr.No.2 to 24.**Each Contains five marks. Student should secure 18 Marks for passing in internal Exam.**

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Effective from June 2024-25

Subject: Geography**SEMESTER- IV****Paper Style:**

EXTERNAL ASSESSMENT BY UNIVERSITY		50 Marks
Que. No.	Particulars	Marks
Que. 1	(A) Essay Type Question (From Unit-1)	(10)
	OR	
	(B) Essay Type Question (From Unit-1)	
Que. 2	(A) Essay Type Question (From Unit-2)	(10)
	OR	
	(B) Essay Type Question (From Unit-2)	
Que. 3	(A) Essay Type Question (From Unit-3)	(10)
	OR	
	(B) Essay Type Question (From Unit-3)	
Que. 4	(A) Essay Type Question (From Unit-4)	(10)
	OR	
	(B) Essay Type Question (From Unit-4)	
Que. 5	Short Notes. (2/4) (One from each unit)	(10)