



Arts, Commerce and Science College, New Panvel (Autonomous)

Re-accredited A+ Grade by NAAC (Third Cycle-CGPA-3.61)

'College with Potential for Excellence' Status Awarded by UGC

'Best College Award' by University of Mumbai

As per National Education Policy - 2020

Title of the Programme
B. A. in Geography
(Faculty of Arts)

Syllabus for F.Y.B.A. (Geography)
Semester I and II

(With effect from the academic year 2024-25)

Principal
CHANGU KANA THAKUR
ARTS COMMERCE & SCIENCE COLLEGE
NEW PANVEL, RAIGAD.





# CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

# As per National Education Policy – 2020 (Revised-2024)

Sr. No.	Heading	Particulars	
1	Title of program	Bachelor of Arts	
2	Eligibility	12th Pass of all recognized Board	
3	Duration of program	One Year	
4	Intake Capacity	Re-actrofficed Av Corade by Vollege with Potential for Excelled 021	
5	Scheme of Examination	External- 60 Marks Internal -40 Marks	
6	Standards of Passing 40%		
7	Semesters I and II T I REGISTED TO A		
8	Program Academic Level	U.G.	
9	Pattern Semester (60:40)		
10	Status	Revised	
11	To be implemented from Academic Year	Academic Year 2024-25	

Dr. D.S. Narkhede

Head, Department of Geography
Changu Kana Thakur
A.C.S. College,

New Panvel (Autonomous)

Prof. (Dr.) S.K. Patil

Principal

Changu Kana Thakur

A.C.S. College,

New Panvel (Autonomous)





## CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

#### Preamble

#### 1) Introduction

Bachelor of Arts (B.A.) in Geography is a under graduation course of Department of Geography, Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous). The college has implemented the National Education Policy 2020 from the Academic Year 2023-24 and Geography is one of the major subject offered by the college. The Choice Based Credit System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. This syllabus is prepared to give the sound knowledge and understanding of Geography to undergraduate students at first year of the B.A. degree course. The syllabus is prepared to determine and analyse knowledge of the facts, processes, and methods of Geography. The content of syllabus will expose the students to various emerging new areas of Geography and acquaint them with their prevalent in their future studies and their applications in society. Depart also offers Vocational and Skill based Courses for the students (VSC), through this course students will acquire geographic analytical skills that can be applied to a variety of research and professional tasks where the analysis of spatial information is required.

# **Abbreviations Used**

- POs: Program Outcomes
- PS: Program Structure
- PSOs : Program Specific Outcomes
- COs: Course Outcomes
- TLP: Teaching-Learning Process
- AM: Assessment Method
- DSC: Discipline Specific Core
- DSE: Discipline Specific Elective
- GE: Generic Elective
- OE: Open Elective
- VSC : Vocational Skill Course
- SEC : Skill Enhancement Course
- IKS: Indian Knowledge System
- AEC : Ability Enhancement Course
- VEC : Value Education Course
- OJT : On Job Training (Internship)
- FP: Field project
- CEP: Community engagement and service
- CC: Co-curricular Courses
- RM: Research Methodology
- RP: Research Project
- MJ: Major Course
- MN : Minor Course





# CHANGU KANA THAKUR

# Arts, Commerce and Science College, New Panvel (Autonomous)

# **Program Specific Outcomes (PSOs)**

DCO	PSOs Statement	Knowledge and
PSO No.	After completing the Bachelor of Arts- Geography	Skill
140.	Program, students will be able to-	
	Explain the concepts of physical and human Geography.	Disciplinary
PSO-1	Evaluate the environmental concerns and able to	knowledge and
130-1	provide the sustainable solutions.	social interaction
111111111111	Analyse and interpret the geographical data for	Critical thinking and
PSO-2	research.	problem solving
	Acquire skills to use modern instruments and technology	Scientific reasoning
PSO-3	in Geography and its applications.	and research related
150-5	In Geography and its applications.	skills





# CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

Syllabus for F.Y.B.A. (Geography) Semester- I

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2024-2025)

Course Structure

Course Code: UAR1GE1

Course Title: Geography of Resources

**Course Type: Discipline Specific Course (DSC)** 

No. of Credits: 4

Course Outcomes (Cos)

CO	COs Statement		
No.	After completing the Course, students will be able to-		
CO-1	Understand the concept, factors, importance and classification of resources. And the resource consumption pattern in the world. (Level-2- Understanding)		
CO-2	Explain the distribution, consumption of water and forest resources and evaluate the problems and Conservation methods of water, forest resources. (Level-2-Understanding)		
CO-3	Explain the distribution, consumption of soil and mineral resources and evaluate problems the conservation methods of soil and mineral resources. (Level-2-Understanding and Level-5 Evaluating)		
CO-4	Understand the concept and distribution of human resources in the world. (Level-2- Understanding)		



# CHANGU KANA THAKUR



Arts, Commerce and Science College, New Panvel (Autonomous)
Choice Based Credit System (CBCS)
F.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2024-25

#### **SEMESTER-I**

# GEOGRAPHY OF RESOURCES

Course Code: UAR1GE1

(Credit-04)

Unit No		Title of the Unit	Hours
UNIT-I	Intro	duction to the Resources	15
01111	1.1	Meaning and importance of the natural resources	
	1.2	Factors influencing resource utilization	
	1.3	Classification of resources	
	1.4	Resource consumption pattern in the developed and developing countries	
UNIT-II	Susta	inability, Water and Forest Resources	15
	2.1	Concept of Conservation, Need and Sustainable measures for resource conservation	
	2.2	Distribution of water resources, water pollution and water conservation	
	2.3		
	2.4	Depletion of forest resources and forest conservation	
UNIT-II	Soil a	and Mineral Resources	15
01112	3.1	Soil composition and factor affecting pedogenesis processes	
	3.2		
	3.3	Minerals and their classification	
	3.4	Depletion of mineral resources and conservation	
UNIT-IV	Hum	nan Resources	15
	3.1	P 1 1 ar drillad	
	3.2	11	
	3.3		
	200		

#### **Reference Books:**

- 1. Chandna R.C. (2014): Geography of Population, Kalyani Publishers, Ludhiana, India
- 2. Gautam Alka (2010) Environmental Geography: Sharda Pustak Bhavan, Allahabad
- 3. GautamAlka: 2013: Advanced Economic Geography, Sharda Pustak Bhawan, Allahabad, India, Third Edition
- 4. Gautam Alka: Resource Geography, Sharda Pustak Bhawan, Allahabad, India,
- 5. Husain Majid, 2003: Resources Geography, Anmol Publications Pvt. Ltd. (2003) ISBN: 9788170418764
- 6. Khullar D. R. (2014) India: A Comprehensive Geography, Kalyani Publishers, ISBN-13: 978-9327246759
- 7. Mondal P and Dalai (2017) Sustainable Utilization of Natural Resources: CRC Press (2017)ISBN 9781498761833
- 8. Singh Savinder (2015): Environmental Geography: Prayag Pustak Company, Allahabad
- 9. Singh Vipul (2012) The Human Footprint on Environment: Issues in India, MacmillanPublishers India Pvt. Ltd, ISBN: 935-059-098-0
- 10. Verma C.L. (2014): Economic and Resource Geography, Forward Books; 1<sup>ST</sup> edition (2014)ISBN-10: 9381763534
- 11. Website:https://www.researchgate.net/publication/280298490\_Resource\_Geography
- 12. William A.: Nonfuel Minerals and the World Economy", Vogely, World Resources InstituteBook Yale University Press
- 13. घारपुरे विठ्ठल साधन :(२०१६) संपत्ती भूगोल ,पिंपळापुरे पब्लीशर्ष नागपूर ,
- 14. परमार राजेंद्र व इतर(२०१३) पर्यावरण भूगोल ,हिमालया पुब्लीशिंग हाउस मुंबई .





## **CHANGU KANA THAKUR**

Arts, Commerce and Science College, New Panvel (Autonomous)

Syllabus for F.Y.B.A. (Geography) Semester- II
Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2024-2025)
Course Structure

Course Code: UAR2GE2

Course Title: Geography of Tourism

**Course Type: Discipline Specific Course (DSC)** 

No. of Credits: 4

#### **Course Outcomes (Cos)**

CO	COs Statement		
No.	After completing the Course, students will be able to-		
CO-1	Understand about nature, scope and components of tourism ( Level-2-		
	Understanding)		
CO-2	Explain the role of infrastructure and technology in tourism development.		
	(Level-2-Understanding)		
	Explain planning of tourism and role of tourism organizations and analyse the new		
CO-3	trends in tourism and impact of tourism. (Level-2-Understanding and Level-4		
	Analysing)		
00.4	Explain the potential of tourism in Maharashtra and India and evaluate the policy of		
CO-4	tourism. (Level-2-Understanding and Level-5- Evaluating)		





#### **CHANGU KANA THAKUR**

# Arts, Commerce and Science College, New Panvel (Autonomous)

Choice Based Credit System (CBCS)
F.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2024-25
SEMESTER- II

#### **GEOGRAPHY OF TOURISM**

**Course Code: UAR2GE2** 

(Credit-04)

Unit No		Title of the Unit	Periods
UNIT-I	Intro	duction to Tourism Geography	15
	1.1	Definition, Nature and Scope	I west
	1.2	Types of Tourism	
	1.3	Components of Tourism - Geographical and economical components	y serge.
	1.4	Components of Tourism - Socio-cultural and political components	
		A ANATHER TO ESCUENT.	L on I
UNIT-II		of Infrastructure and Technology in Tourism lopment	15
	2.1	Accommodation and food services	1413
	2.2	Transportation	
	2.3	Travel Agencies and Tour Guide	
1/0/7/3/61	2.4	Documentation and Ticketing	
UNIT-III	Planr	ning of Tourism and Tourism Organizations	15
Ter Men	3.1	Need, Elements and Levels of Planning	
	3.2	Tourism Organizations - IATA, PATA, I.T.D.C. and M.T.D.C	0-000
	3.3	Changing Patterns and Trends in Tourism	
	3.4	Incredible India campaign	
UNIT-IV	Tour	ism Potential and Policy	15
	4.1	Tourism Potential in Maharashtra and India	
	4.2	Agro and Coastal tourism in Maharashtra and India	
	4.3	Heritage and adventure tourism in Maharashtra and India	
	4.4	Tourism Policy of Maharashtra and India	

#### **Reference Books:**

- 1. Anand M.M., Tourism & Hotel Industry in India, Prentice Hall of India, New Delhi,
- 2. Bhatia A.K., Tourism Development, Sterling Publishers Pvt. Ltd. New Delhi.
- 3. Bhatia A.K., International Tourism, Sterling Publishers Pvt. Ltd. New Delhi
- 4. Bhatia A.K.,- Tourism in India , Sterling Publishers Pvt. Ltd. New Delhi
- 5. Geetanjali, Tourism Geography, Centrum press publishers, New Delhi
- 6. T.K. Sathyadev, P. Manjunath- Tourism Planning, Pacific books Internationals, Delhi.
- 7. Thakur S A (2016) : पर्यटन भूगोल Konkan Geographer's Publication
- 8. घारपुरे विठ्ठल) २०१० :(पर्यटन भूगोल ,पिंपळापुरे पब्लिशर्स ,नागपूर

# Revised Scheme of Examination Faculty of Arts (Under-graduate Programmes)

#### **Choice Based Credit System (CBCS)**

#### \* Revised Scheme of Examination

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component by conducting the Semester End Examinations with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

#### A) Internal Assessment: 40 %

40 Marks

Sr. No.	Particular	Marks
01	One periodical class test / online examination to be conducted in the given semester	20 Marks
02	Group/ Individual Survey Project/Presentation and write up on the selected topics of the subjects/Case studies / Test based on tutorials /Book Review /Poetry Appreciation/ Open Book Test	15 Marks
03	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

# Question Paper Pattern (Periodical Class Test)

Maximum Marks: 20

Questions to be set: 02

All Questions are Compulsory

Duration: 40 Minutes

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

• Duration: The examination shall be of 2 hours duration.

# Question Paper Pattern

#### Theory question paper pattern

- 1. There shall be four/five questions each of 15/12 marks (30/24 marks with internal options).
- 2. All questions shall be compulsory with internal options.
- 3. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the unit.

#### > Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) separately, to pass the course and minimum of Grade D, wherever applicable, to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

- Note: 1) It is noted that the concerned regulation of the College is amended and implemented to Semester III to Semester VI of undergraduate programmes, under faculty of Arts, Commerce and Science with effect from the academic year 2023 2024.
  - 2) This revised scheme of evaluation is discussed in detail, finalised and accepted.





# CHANGU KANA THAKUR ARTS, COMMERCE & SCIENCE COLLEGE, NEW PANVEL

(AUTONOMOUS)

Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai

Revised Syllabus under National Education Policy 2020

Program: F.Y.B.A/B.Com./B.Sc./B.M.S

Value Education Course (VEC)
(Environmental Studies)

Choice Based Credit System (60:40) w.e.f. Academic Year 2023-24

CHANGU KANA THAKUR ARTS, COMMERCE & SCIENCE COLLEGE NEW PANVEL, RAIGAD.

## **Details of the course:**

Sr. No.	Heading	Particulars
1	Title of Course	Environmental Studies (VEC)
2	Eligibility for Admission	12 h Arts/Commerce/ Science of all recognised Board
3	Passing marks	35%
4	Ordinances/Regulations (if any)	Hit Assumption and Assumption
5	No. of Semesters	Two
6	Level	U.G.
7	Pattern	Semester (60:40)
8	Status	Revised
9	To be implemented from Academic year	2023-24
10	Credits	02

### **Preamble of the Syllabus:**

The college has implemented the National Education Policy 2020 from the Academic Year 2023-24. Under Value Education Course (VEC) department offers Environmental Studies at F.Y.B.A. / B.Com/B.Sc. /B.M.S. classes at first year of under graduation level program. This course is designed to procure awareness among the learners about the environment as a whole and its related problems. The syllabus is prepared to give the sound knowledge and understanding of environment to undergraduate students at first year of the degree course in Arts, Commerce and Science faculty. The content of syllabus is prepared to make the students capable to understand the relation between the environment and the commercial activities. Also to create an insight into various environmental issues at global, national and regional level and measures for environmental conservation. This course will cultivate a sense of awareness among learners on the need to conserve our environment.

Principal
CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE
NEW PANVEL, RAIGAD.

NEW PANVEL IN 2

Head
Department of Geography
Changu Kana Thakur

# **Objectives of the course:**

- 1. To demonstrate and analyse knowledge of the facts and processes of environment.
- 2. To make aware students about various environmental factors and its relation to the field of Commerce.
- 3. To highlight functional and spatial links between environment, economy and society.
- 4. To create an environmental awareness among the students.
- 5. To create an insight into various environmental issues at global, national and regional level and measures for environmental conservation.

#### Outcome of the course:

# Semester: - I - F.Y.B.Com. Environmental Studies

Revised Syllabus w.e.f. Academic Year, 2023-24 (CBSGS)

Value Education	Course: Environmental Studies	Credits- 02
Course (VEC)	Course Code: (UVEC1EVS)	The exhang
After completing t	he course, student will be able to:	Bloom Taxonomy
		Level
CO 1	Understand comprehensibly the concept	II- Understanding
	of environment and ecosystem.	The state of the s
CO 2	Discuss the Man-Environmental	II- Discussion
	Interaction	
CO 3	Understand the need the biodiversity and	III- Applying
	its conservation.	IV- Analysing
CO 4	Understanding and analysing the causes,	II- Understanding
	effects and measures of pollution	IV- Analysing

# **Revised Syllabus:**

# University of Mumbai

Changu Kana Thakur A.C.S. College, New Panvel (Autonomous)

Revised Syllabus as per NEP 2020 w.e.f. Academic Year, 2023-24 (CBSGS)

F.Y.B.A/B.Com./B.Sc./B.M.S. (Semester- I)

Value Education Course (VEC) - Environmental Studies-I

#### **COURSE CODE: UVES1EVS**

Credit- 2

Unit No		Title of the Unit	Hours
UNIT-I	Envir	onment and Ecosystem	15
	1.1	Environment: Definition, Factors and Types of Environment	in seeson
	1.2	Ecosystem: Elements, Types, Structure and Function	
	1.3	Man-Environmental Interaction	
	1.4	Significance of Environmental Studies.	
TINITED II			
	Riodix	versity its conservation and Pollution	15
UNIT-II		versity, its conservation and Pollution  Biodiversity : Definition Types and value of	15
UNIT-II	Biodiv	Biodiversity :Definition, Types and value of Biodiversity	15
UNII-II		Biodiversity :Definition, Types and value of	15
UNIT-II	2.1	Biodiversity :Definition, Types and value of Biodiversity	15

# **Outcome of the course:**

# Semester: - II - F.Y.B.Com. Environmental Studies

# Revised Syllabus w.e.f. Academic Year, 2023-24 (CBCS)

Value Education Course (VEC)	Course: Environmental Studies Course Code: (UVEC2EVS)	Credits- 02
After completing t	the course, student will be able to:	Bloom Taxonomy Level
CO 1	Gain a comprehensive knowledge of climate change, its science and response measures	II- Understanding V- Evaluating
CO 2	Understand the sources of waste and waste management	II- Understanding III- Applying
CO 3	Develop a critical understanding of the complexity of environmental management.	II- Understanding V- Evaluating
CO 4	Explain sustainable development, its goals, targets, challenges and global strategies for sustainable development.	II- Understanding
CO 5	Learn about the major international treaties and our country's stand on and responses to the major international agreements.	II- Understanding

# **Revised Syllabus:**

# University of Mumbai

Changu Kana Thakur A.C.S. College, New Panvel (Autonomous)
Revised Syllabus as per NEP 2020 w.e.f. Academic Year, 2023-24 (CBSGS)
F.Y.B.A/B.Com./B.Sc./B.M.S (Semester- II)
Value Education Course (VEC) - Environmental Studies-II

COURSE CODE: UVES1EVS	Credit- 2
	Cicuit- 2

TT '4 BT			oreunt- 2
Unit No		Title of the Unit	Hours
UNIT-I	Clima	ate Change and Waste management	15
1 Substantial	1.1	Climate Change: Concept, Global warming, Global	
		Climatic Assessment -IPCC	
	1.2	Impact of climate change and mitigation : Agriculture	
	100000	and water, flora and fauna, Human health and	10
		mitigation plan	
20-164	1.3	Waste: Sources and Types,	
	1.4	Waste management: Methods in World and India	
		La	
UNIT-II	Envir	onmental Management and Sustainable Development	15
1 B	2.1	Environmental Management: Concept, need and	
		relevance	
	2.2	Environmental Audit and Impact Assessment and	-
		Movements	
	2.3	Sustainable Development: Concept, Goals, challenges	
		and Strategies	
	2.4	Environmental Treaties and Legislation	
		Troutes and Degistation	

#### **Reference Books:**

- 1. Asolekar S, Gopichandran R. 2005, 'Preventive Environmental Management an Indian perspective', CEE, Ahmedabad, Foundation Books Pvt Ltd, Daryaganj
- 2. Bharucha Erich, 2005, University Press, Himayat nagar, Hyderabad
- 3. Chambers N., Simons C., Wackernagel M., 2006, 'Sharing Nature's Interest Ecological footprints as an indicator of sustainability'.
- 4. Dresner S., 2005, 'The principles of sustainability', Earthscan publication Ltd, London.
- 5. Gandotra V., Patel S., 2008, 'Environmental problems and strategies', Serials Publication, New Delhi
- 6. Hulse J. H., 2007, 'Sustainable Development at risk Ignoring the past', Cambridge University Press India Pvt Ltd., New Delhi.
- 7. IPCC (2014): Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA
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- 10. OECD (2008): Climate Change Mitigation: "What do we do?" (Organisation and Economic Co-operation and Development).
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- 13. Rajgopalan R., 2005, 'Environmental Studies from crisis to cure', Oxford University press, New Delhi.
- 14. Reddy K. P., Reddy D. N., 2003, 'Environmental Education', Neelkanth Publication, Hyderabad.
- 15. Santra S.C., 2004, 'Environmental Science', New Central Book agency Pvt Ltd, Kolkata.
- 16. Saxena H.M., 2000, 'Environmental Management', Rawat Publication, New Delhi, pp.
- 17. Sen, Roy, S., and Singh, R.B., (2002): Climate Variability, Extreme Events and Agricultural Productivity in Mountain Regions, Oxford & IBH Pub., New Delhi.
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#### VEC- Environmental Studies Syllabus, w.e.f. 2023-24

- 21. Sudhir M.A., Alankara M. M., 2003, 'Environmental issues', Reliance publishing house, New Delhi.
- 22. Swarup R.S., Mishra S.N., Juahari V.P, 1992, 'Encyclopaedia of Ecology, environment and pollution control 20', Mittal publication, New Delhi
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- 24. Tomar A., 2007, 'Environmental Education', Kalpaz publication, New Delhi
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- 32. घारपुरेपर्यावरण', , भूगोल ,पिंपळापुरे पब्लीशर्स 'नागपूर.





# CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

Re-accredited A+ Grade by NAAC (Third Cycle-CGPA-3.61)
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai

As per National Education Policy - 2020

Title of the Programme B. A. in Geography

SKILL ENHANCMENT COURSE (SEC)
HORTICULTURE
Syllabus for F.Y.B.A. Semester I and II

(With effect from the academic year 2024-25)

Changu Kana Thakur Arts, Commerce and Science College, New Panyel (Autonomous)

ARTS, COMMERCE & SCIENCE COLLEGE NEW PANVEL, RAIGAD.





#### Arts, Commerce and Science College, New Panvel (Autonomous)

## As per National Education Policy – 2020 (Revised-2024)

Sr. No.	Heading	Particulars
1	Title of program	Bachelor of Arts
2	Eligibility	12th pass from all recognized Boards
3	Duration of program	One Year
4	Intake Capacity	120
5	Scheme of Examination	External- 60 Marks Internal -40 Marks
6	Standards of Passing	35%
7	Semesters	I and II
8	Program Academic Level	U.G.
9	Pattern	Semester (60:40)
10	Status	Revised
11	To be implemented from Academic Year	Academic Year 2024-25

Dr. D.S. Narkhede

Head, Department of Geography Changu Kana Thakur

A.C.S. College,

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Prof. (Dr.) S.K. Patil

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New Panvel (Autonomous)



# Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

#### Preamble

#### Introduction

Bachelor of Arts (B.A.) in Geography is a under graduation course of Department of Geography, Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous). The college has implemented the National Education Policy 2020 from the Academic Year 2024-25 and Geography is one of the major subject offered by the college. Under Skill Enhance Course department introduced the Horticulture course. Horticulture is the art and science of cultivating plants for human use, enjoyment, and environmental benefit. In this course, we will explore the fundamentals of plant biology, soil science, garden design, and sustainable practices that shape the modern horticultural industry. Students will gain practical experience in plant propagation, landscape management, and ecological stewardship. Through both theoretical lessons and hands-on activities, this course aims to foster a deep understanding of the intricate relationships between plants, their environments, and the communities they support. Whether for personal enrichment or professional development, the knowledge and skills gained will empower students to contribute meaningfully to horticulture's diverse fields.

#### **Abbreviations Used**

• POs: Program Outcomes

• PS: Program Structure

• PSOs: Program Specific Outcomes

• COs: Course Outcomes

• TLP: Teaching-Learning Process

• AM: Assessment Method

• DSC : Discipline Specific Core

• DSE: Discipline Specific Elective

• GE: Generic Elective

• OE: Open Elective

VSC : Vocational Skill Course

• SEC: Skill Enhancement Course

• IKS : Indian Knowledge System

• AEC : Ability Enhancement Course

• VEC : Value Education Course

• OJT : On Job Training (Internship)

• FP : Field project

• CEP: Community engagement and service

• CC : Co-curricular Courses

• RM : Research Methodology

• RP : Research Project

• MJ : Major Course

• MN : Minor Course





#### **CHANGU KANA THAKUR**

Arts, Commerce and Science College, New Panvel (Autonomous)

Syllabus for F.Y.B.A. Semester- I

#### SKILL ENHANCEMENT COURSE (SEC)

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2024-2025)

**Course Structure** 

Course Code: USEC1HOR
Course Title: Horticulture

**Course Type: Skill Enhancement Course (SEC)** 

No. of Credits: 2

#### **Course Outcomes (Cos)**

CO No.	COs Statement	
	After completing the Course, students will be able to-	
CO-1	Understand the Concept, importance nature, scope and types of Horticulture (Level-2- Understanding)	
CO-2	Able understand the use of propagation tools, nutrition application methods and its application in field.(Level-2- Understanding and Level III- Applying)	
CO-3	O-3 Able to prepare nursery beds, seeding, plantation and cultivate the horticultural plants (Level VI- Creating)	





#### CHANGU KANA THAKUR

## Arts, Commerce and Science College, New Panvel (Autonomous)

**Choice Based Credit System (CBCS) Syllabus for F.Y.B.A. Semester- I** 

# SKILL ENHANCEMENT COURSE (SEC) To be implemented from the Academic year 2024-25

#### **HORTICULTURE**

Course Code: USEC1HOR1

(Credit-02)

	Title of the Unit	No. of Lectures
	Unit I: Basics of Horticulture	
1.1	Definition, Scope, Importance and Branches	A SKING
1.2	Weed Management- Land preparation, hand hoeing, hand weeding, water management training, pruning, ringing, notching, disbudding and pinching, Grafting and potting methods	15
1.3	Propagation tools and implements	
1.4	Nutrient application methods in horticultural crops	
	Unit II: Practical in Horticulture	681
2.1	Preparation of Nursery Beds, Seed Treatments and sowing	
2.2	Potting and maintenance of plants (Indoor and Outdoor Plants)	15
2.3	Types of Cutting and Grafting with applications	15
2.4	Nutrition and plant protection, Application of Growth Regulators	

#### Reference books:-

- 1. Textbook on Horticulture- Rajaneesh Singh (Author), Bijendra Kumar Singh (Author); New India Publishing Agency- Nipa
- 2. Fundamentals of Horticulture- Jitendra Singh (Author); Kalyani Publishers (Contributor)
- 3. Basic Horticulture by Jitendra Singh; Kalyani Publishers (Contributor)
- 4. Fundamentals of Horticulture and Plant Breeding-N. Arumugam, V. Kumaresan; Saras Publication
- 5. Introduction to Horticulture, 9th Edition- N. Kumar (Author); Medtech Science Press
- 6.. Chadha K. L. (ICAR), 2002. Handbook of Horticulture. ICAR, New Delhi.
- 07. D. K. Salunkhe and S.S. Kadam, 2013. A handbook of Fruit Science and Technology. CRC Press.
- 08. Denisen E.L., 1957. Principles of Horticulture. Macmillan Publishing Co., New York.
- 09. Edmond, J.B, Sen, T.L, Andrews, F.S and Halfacre R.G., 1963. Fundamentals of Horticulture. Tata Mc Graw Hill Publishing Co., New Delhi.
- 10. Gardner/Bardford/Hooker. J.R., 1957. Fundamentals of Fruit Production. Mac Graw Hill Book Co., New York.

#### **CHANGU KANA THAKUR**

Arts, Commerce and Science College, New Panvel (Autonomous)

Syllabus for F.Y.B.A. Semester- II

#### SKILL ENHANCEMENT COURSE (SEC)

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2024-2025)

**Course Structure** 

Course Code: USEC2HOR2
Course Title: Horticulture

Course Type: Skill Enhancement Course (SEC)

No. of Credits: 2

**Course Outcomes (Cos)** 

CO No.	COs Statement
	After completing the Coourse, students will be able to-
CO-1	Understand the principles of landscaping, Garden design and types of
	Horticulture (Level-2- Understanding)
00.0	Able understand the concept of indoor and outdoor plants and different garden
CO-2	features) (Level-2- Understanding)
CO-3	Able to test the soil samples plants and prepare different types of gardens
	(Level III- Applying and Level VI- Creating)

- 11. Jitendra Singh, 2002. Basic Horticulture. Kalyani Publishers, Hyderabad.
- 12. Jitendra Singh, 2011. Basic Horticulture. Kalyani Publications, New Delhi.
- 13. K.V.Peter, 2009. Basics Horticulture. New India Publishing Agency
- 14. Kausal Kumar Misra and Rajesh Kumar, 2014. Fundamentals of Horticulture. Biotech Books.
- 15. Kumar, N., 1990. Introduction to Horticulture. Rajyalakshmi publications, Nagarcoil, Tamilnadu
- 16. Neeraj Pratap Singh, 2005. Basic concepts of Fruit Science 1" Edn. IBDC Publishers.
- 17. Prasad and Kumar, 2014. Principles of Horticulture 2nd Edn. Agrobios (India).
- 18. Horticulture and Gardening-Dr. M.R. Khan; Nirali Prakashan





# **CHANGU KANA THAKUR**

Arts, Commerce and Science College, New Panvel (Autonomous)

Choice Based Credit System (CBCS) Syllabus for F.Y.B.A. Semester- II

# SKILL ENHANCEMENT COURSE (SEC) To be implemented from the Academic year 2024-25

#### HORTICULTURE

Course Code: USEC2HOR2

(Credit-02)

	Title of the Unit	No. of Lectures
	Unit I: Landscape Gardening	
1.1	Principles of landscaping, Garden design and types	
1.2	Selection of site, Preparation of soil for garden, Lawn- Method of preparation of lawn, management of lawn and lawn plants.	
1.3	Indoor plants & Indoor gardens- Hydroponics, Terrarium/ Bottle garden, Dish garden.	15
1.4	Important garden features- Paths & Avenues, Hedges & Edges, Lawn, Flowerbeds, Arches& Pergolas, Fencing, Water bodies, Rock garden & Plants suitable for different locations & climates.	
	Unit II: Practical in Garden operations	
2.1	Soil sampling and testing	
2.2	Method of preparing bonsai, Bottle Garden / Terrarium, Hanging baskets, Dish garden	15
2.3	Field Visit: Nursery/Agro farm/Garden	
2.4	Project and presentation – Each student should individually present a project related to any topic related to Horticulture.	

#### Reference books:-

- 1. Textbook on Horticulture- Rajaneesh Singh (Author), Bijendra Kumar Singh (Author); New India Publishing Agency- Nipa
- 2. Fundamentals of Horticulture- Jitendra Singh (Author); Kalyani Publishers (Contributor)
- 3. Basic Horticulture by Jitendra Singh; Kalyani Publishers (Contributor)
- 4. Fundamentals of Horticulture and Plant Breeding-N. Arumugam, V. Kumaresan; Saras Publication
- 5. Introduction to Horticulture, 9th Edition- N. Kumar (Author); Medtech Science Press
- 6.. Chadha K. L. (ICAR), 2002. Handbook of Horticulture. ICAR, New Delhi.
- 07. D. K. Salunkhe and S.S. Kadam, 2013. A handbook of Fruit Science and Technology. CRC Press.
- 08. Denisen E.L., 1957. Principles of Horticulture. Macmillan Publishing Co., New York.
- 09. Edmond, J.B, Sen, T.L, Andrews, F.S and Halfacre R.G., 1963. Fundamentals of Horticulture.

Tata Mc Graw Hill Publishing Co., New Delhi.

- 10. Gardner/Bardford/Hooker. J.R., 1957. Fundamentals of Fruit Production. Mac Graw Hill Book Co., New York.
- 11. Jitendra Singh, 2002. Basic Horticulture. Kalyani Publishers, Hyderabad.
- 12. Jitendra Singh, 2011. Basic Horticulture. Kalyani Publications, New Delhi.
- 13. K.V.Peter, 2009. Basics Horticulture. New India Publishing Agency
- 14. Kausal Kumar Misra and Rajesh Kumar, 2014. Fundamentals of Horticulture. Biotech Books.
- 15. Kumar, N., 1990. Introduction to Horticulture. Rajyalakshmi publications, Nagarcoil, Tamilnadu
- 16. Neeraj Pratap Singh, 2005. Basic concepts of Fruit Science 1" Edn. IBDC Publishers.
- 17. Prasad and Kumar, 2014. Principles of Horticulture 2nd Edn. Agrobios (India).
- 18. Horticulture and Gardening-Dr. M.R. Khan; Nirali Prakashan

BOS Meeting Date-15/04/2024

Item No. -03

Academic Council Date - 13/06/2024

Item No. - 08



Janardan Bhagat Shikshan Prasarak Sanstha's

# **CHANGU KANA THAKUR**

Arts, Commerce and Science College, New Panvel (Autonomous)

Re-accredited A+ Grade by NAAC (Third Cycle-CGPA-3.61)
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai

**As per National Education Policy - 2020** 

Title of the Programme B. A. in Geography

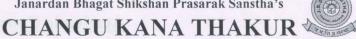
(OPEN ELECTIVE-OE)

Syllabus for F.Y.B.Com Semester II

(With effect from the academic year 2024-25)

Principal
CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE
NEW PANYEL (AUTOHOMOUS)





#### Arts, Commerce and Science College, New Panvel (Autonomous)

# As per National Education Policy – 2020 (Revised-2024)

Sr. No.	Heading	Particulars
1	Title of program	Bachelor of Arts
2	Eligibility	12 <sup>th</sup> for F.Y.B.Com. of all recognized Boards
3	Duration of program	One Year
4	Intake Capacity	120
5	Scheme of Examination	External- 60 Marks Internal -40 Marks
6	Standards of Passing	40%
7	Semesters	II, III and IV
8	Program Academic Level	U.G.
9	Pattern	Semester (60:40)
10	Status	Revised
11	To be implemented from Academic Year	Academic Year 2024-25

Dr. D.S. Narkhede

Head, Department of Geography Changu Kana Thakur A.C.S. College,

New Panvel (Autonomous)

Prof. (Dr.) S.K. Patil

Principal

Changu Kana Thakur

A.C.S. College,

New Panvel (Autonomous)







Arts, Commerce and Science College, New Panvel (Autonomous)
Choice Based Credit System (CBCS)
F.Y.B.Com. Semester-II and for S.Y.B.Sc. Semester- III Syllabus
To be implemented from the Academic year 2024-25

#### PHYSICAL GEOGRAPHY OF INDIA

Course Code: For F.Y.B.Com. UOE2PGI

(Credit-02)

	Title of the Unit	No. of Lectures	
	Unit I: India- Physiography, Drainage and Seasons		
1.1	Location, extent and significance		
1.2	Major physiographic divisions	15	
1.3	Rivers and Lakes		
1.4	Seasons in India		
	Unit-II: Soil, Forest and Mineral Resources	6nt 1-1-00	
2.1	Soil in India	15	
2.2	Forest in India	15	
2.3	Minerals in India		
2.4	Power Resources in India	1000	

#### Reference books:-

- 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 Unievrsity Press, Bombay.
- 3. Dikshit, K.R.(1991): Environment, Forest Ecology and man in the Western Ghats-The Case of Mahabaleshwar Plateau, Rawat Publications, NewDelhi.
- 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. Robinson, F (ed.) (1989): The Cambridge Encyclopedia of India, Pakistan, Bangladesh and Sri Lanka, Cambridge University Press.
- 8. Savindra Singh (2006): Physical Geography of India; Pravalika Publications, Allahabad.
- 9. Sharma T.C. (2013) Economic Geography of India; Rawat Publications, New Delhi.
- 11. परमार राजेंद्र (२०१६) भारताचा प्राकृतिक भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.
- 12. घारपुरे विठ्ठल (२०१४) भारताचा भूगोल ,पिंपळापुरे अँड पब्लीशर्स, नागपूर
- 13. पेडणेकर, नारखेडे व इतर (२०१७) भारताचा प्राकृतिक भूगोल, शेठ पब्लीशेर्स प्रायव्हेट लिमिटेड, मुंबई.



# CHANGU KANA THAKUR



Arts, Commerce and Science College, New Panvel (Autonomous)

# Syllabus for F.Y.B.Com. Semester-II

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2024-2025)

#### **Course Structure**

Course Code: For F.Y.B.Com. UOE2PGI Course Title: Physical Geography of India

Course Type: Open Elective (OE)

No. of Credits: 2

#### **Course Outcomes (Cos)**

CO No.	COs Statement	
	After completing the Course, students will be able to-	
CO-1	Understand the physiographic divisions of India and its importance. (Level-2-Understanding)	
CO-2	Understand and analyze the drainage system in India. (Level-2- Understanding and Level-4- Analyzing)	
CO-3	Explain the types of seasons, soil and forest in India and to evaluate the conservation methods. (Level-2- Understanding and Level-5- Evaluating)	
CO-4	Classify and explain the minerals and energy resources in India. (Level-2-Understanding)	



# Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

#### Preamble

#### Introduction

Bachelor of Arts (B.A.) in Geography is a under graduation course of Department of Geography, Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous). The college has implemented the National Education Policy 2020 from the Academic Year 2024-25 and Geography is one of the major subject offered by the college. The Choice Based Credit System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. This syllabus is prepared to give the sound knowledge and understanding of Geography to undergraduate students at first year of the B.A. degree course. The syllabus is prepared to determine and analyse knowledge of the facts, processes, and methods of Geography. The content of syllabus will expose the students to various emerging new areas of Geography and acquaint them with their prevalent in their future studies and their applications in society. Depart also offers Vocational and Skill based Courses for the students (VSC), through this course students will acquire geographic analytical skills that can be applied to a variety of research and professional tasks where the analysis of spatial information is required.

#### **Abbreviations Used**

• POs: Program Outcomes

• PS: Program Structure

• PSOs: Program Specific Outcomes

• COs: Course Outcomes

• TLP: Teaching-Learning Process

• AM: Assessment Method

• DSC : Discipline Specific Core

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• FP: Field project

• CEP: Community engagement and service

• CC : Co-curricular Courses

• RM : Research Methodology

• RP: Research Project

• MJ: Major Course

MN : Minor Course





## **CHANGU KANA THAKUR**

Arts, Commerce and Science College, New Panvel (Autonomous)

Re-accredited A++ Grade by NAAC (Fourth Cycle-CGPA-3.52)

'College with Potential for Excellence' Status Awarded by UGC

'Best College Award' by University of Mumbai

As per National Education Policy – 2020 (Revised)

Title of the Programme
B. A. in Geography
(Faculty of Arts)

Syllabus for S.Y.B.A. (Geography)
Semester III and IV
(Major, IKS, and SEC)

(With effect from the academic year 2025-26)

Dr. D. S Narkhede Chairman

Board of Studies in Geography

New Panvel &

Prof. (Dr.) S.K. Patil

Principal

Changu Kana Thakur A.C.S. College New Panvel (Autonomous)

New Panvel (Autonomous)





## **CHANGU KANA THAKUR**

## Arts, Commerce and Science College, New Panvel (Autonomous)

## As per National Education Policy – 2020 (Revised-2024)

Sr. No.	Heading	Particulars
1	Title of program	Bachelor of Arts
2	Eligibility	F.Y.B.A. of all recognized Universities
3	Duration of program	One Year
4	Intake Capacity	120
5	Scheme of Examination	External - 60 Marks Internal - 40 Marks
6	Standards of Passing	40%
7	Semesters	III and IV
8	Program Academic Level	U.G.
9	Pattern	Semester (60:40)
10	Status	Revised
11	To be implemented from Academic Year	Academic Year 2025-26

Dr. D.S. Narkhede

Head, Department of Geography
Changu Kana Thakur
A.C.S. College,

New Panvel (Autonomous)

Prof. (Dr.) 8.K. Patil

Principal

Changu Kana Thakur

A.C.S. College,

New Panvel (Autonomous)



## Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR



**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### **Preamble**

#### 1) Introduction

Bachelor of Arts (B.A.) in Geography is a under graduation course of Department of Geography, Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous). The college has implemented the Revised National Education Policy 2020 from the Academic Year 2024-25 and Geography is one of the major subject offered by the college. The Choice Based Credit System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. This syllabus is prepared to give the sound knowledge and understanding of Geography to undergraduate students at first year of the B.A. degree course. The syllabus is prepared to determine and analyse knowledge of the facts, processes, and methods of Geography. The content of syllabus will expose the students to various emerging new areas of Geography and acquaint them with their prevalent in their future studies and their applications in society. Department also offers Vocational Skill Courses (VSC) and Skill Enhancement Courses (SEC) for the students and, through this courses students will acquire geographic analytical skills that can be applied to a variety of research and professional tasks where the analysis of spatial information is required.

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- RP: Research Project
- MJ : Major Course
- MN : Minor Course



## Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR



## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## **Program Outcomes (POs)**

PO	POs Statement	Knowledge and
No.	After completing the Bachelor of Arts Program, students	Skill
	will be able to-	
	Demonstrate a blend of conventional discipline knowledge and its	Disciplinary
PO-1	applications to the modern world. Execute strong theoretical and	Knowledge
10-1	practical understanding generated from the chosen programme and	
	equip the students with a strong academic perspective.	
	Exhibit the skill of critical thinking and use higher order cognitive	Critical Thinking,
	skills to approach problems situated in their social environment,	Cognitive skills
PO-2	propose feasible solutions and help in its implementation. The	and Problem
	students will be able to comprehend, learn, process and apply	Solving
	knowledge in day to day life.	
	Ability to analyse and evaluate different concepts of problems of	Analytical Skills
PO-3	society and make students able to develop oral and written	and Effective
	communication skills in literature.	Communication
	Equip with strong work attitudes and Employment skills that will	Competencies for
PO-4	enable them to work independently as well as collaboratively.	employment and
	Seeks opportunity for research and higher academic achievements	Research
	in the chosen field and allied subjects.	T., 433 4134 4
DO 5	Able to work collaboratively and effectively with diverse groups	Individuality and Teamwork
PO-5	towards personal and common goals. Develop leadership qualities	reamwork
PO-6	among the learners.  Demonstrate empathetic social concern and equity centred national	Effective
PO-0	development; ability to act with an informed awareness of moral	Citizenship and
	and ethical issues and commit to professional ethics as well as to	Ethics
	accomplish their duties and responsibilities as citizens successfully.	Lunes
PO-7	Express oneself clearly and precisely to build good interpersonal	Social competence
	relationships in personal and professional life.	
PO-8	Understand the impact of the scientific solutions in societal and	Environment
	environmental contexts and demonstrate the knowledge of, and	sustainability
	need for environmental conservation and sustainability through	
	action.	
PO-9	Acquire the ability to engage in independent and life-long learning	Self-directed and
	in the broadest context of socio-technological changes.	Life-long learning
PO-10	Help students to share gifts, pursue justice and demonstrate through	Community
	communicative solutions, concern for the poor and marginalised.	engagement



# Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR



## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## **Program Specific Outcomes (PSOs)**

PSO	PSOs Statement	Knowledge and
No.	After completing the Bachelor of Arts Program, students will be able to-	Skill
	Explain the concepts of physical and human Geography.	Disciplinary
PSO-1	Evaluate the environmental concerns and able to provide	knowledge and
	the sustainable solutions.	social interaction
PSO-2	Analyse and interpret the geographical data for research.	Critical thinking and
130-2		problem solving
	Acquire skills to use modern instruments and technology	Scientific reasoning
PSO-3	in Geography and its applications.	and research related
		skills





## **CHANGU KANA THAKUR**



**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### Syllabus for S.Y.B.A. (Geography) Semester- III

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR3GE3** 

**Course Title:** Introduction to Climatology

Course Type: Major-III No. of Credits: 03

CO	COs Statement
No.	After completing the Course students will be able to-
	Understand the nature, scope, branches and concepts of climatology as well as
CO-1	the structure of atmosphere. (Level-I- Remembering and Level- II-
	Understanding, Level-V- Evaluating)
CO-2	Understand the weather phenomena, winds and upper air circulation. (Level- II-
CO-2	Understanding, Level-III- Applying)
CO-3	Understand the concept of humidity, condensation, precipitation and analyse the
	distribution of rainfall. (Level-I- Remembering, Level-II- Understanding and
	Level-IV- Analysing)



#### **CHANGU KANA THAKUR**



#### **Arts, Commerce and Science College, New Panvel (Autonomous)**

### Choice Based Credit System (CBCS) S.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER-III**

#### INTRODUCTION TO CLIMATOLOGY

Course Code: UAR3GE3 (Credit- 03)

	Unit-I: Introduction to Climatology	No. of Lectures
1.1	Definitions, Nature, Scope and Importance	
1.2	Branches of Climatology	15
1.3	Concept and Elements of Weather and Climate	15
1.4	Insolation and Temperature	
	<b>Unit-II: Air Pressure and Atmospheric Circulation</b>	
2.1	Air pressure: Concept, Types and influencing factors	
2.2	Horizontal and Vertical distribution of air pressure	15
2.3	Wind: Types of Winds; Global, Regional and Local	
2.4	Cyclones and Anti-cyclones: Tropical and Temperate	
	<b>Unit-III: Humidity and Precipitation</b>	
3.1	Humidity: Types - Absolute, Relative and Specific	
3.2	Condensation and its forms	15
3.3	Precipitation and its types	
3.4	Spatial Distribution of Rainfall-World	

#### Reference Books:-

- 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.

Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous)

- 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; 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 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)



## ${\bf Janardan\ Bhagat\ Shikshan\ Prasarak\ Sanstha's}$

## CHANGU KANA THAKUR



#### **Arts, Commerce and Science College, New Panvel (Autonomous)**

## Syllabus for S.Y.B.A. (Geography) Semester- III

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR3GE4** 

**Course Title:** Physical Geography of India

Course Type: Major-IV No. of Credits: 03

CO	COs Statement
No.	After completing the Course, students will be able to-
CO-1	Understand the physiographic divisions of India and its importance. (Level- I-Remembering, Level-II- Understanding, Level-V- Evaluating)
CO-2	Understand and analyse the drainage system and explain the types of seasons in India. (Level-II- Understanding, Level-IV- Analysing and Level-V- Evaluating)
CO-3	Understand and Explain the soil, forest and mineral resources in India and to evaluate the conservation methods. (Level-II- Understanding and Level-V-Evaluating)







#### **Arts, Commerce and Science College, New Panvel (Autonomous)**

# Choice Based Credit System (CBCS) S.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26 SEMESTER- III

#### PHYSICAL GEOGRAPHY OF INDIA

Course Code: UAR3GE4 (Credit- 03)

	Unit-I : Introduction of India	No. of Lectures
1.1	India: Location, Extent, Physiographic Divisions and Significance	
1.2	Mountainous Regions of India	15
1.3	North Indian Plains and Plateau	15
1.4	Coastal Plains and Islands	
	<b>Unit-II: Drainage System and Seasons</b>	
2.1	Himalayan Rivers of India	
2.2	Peninsular Rivers of India	15
2.3	Lakes of India	
2.4	Seasons in India	
	Unit-III: Soils, Natural Vegetation and Mineral Resources	
3.1	Soils of India: Importance, Types, Formation and Conservation	
3.2	Forest in India: Importance, Classification and Conservation	
3.3	Mineral Resources (Iron ore, Manganese, Bauxite, Mica and other important minerals)	15
3.4	Power Resources (Coal, Mineral Oil and Natural Gas and Hydro, Wind, Solar, Tidal)	

#### Reference books:-

- 1. Deshpande C.D. (1992): India: A Regional Interpretation, Northern Book Centre,
- 2. New Delhi.
- 3. Bharucha, F.R. (1983): A text book of the plant geography of India,
- 4. Oxford Unievrsity Press, Bombay.
- 5. Dikshit, K.R.(1991): Environment, Forest Ecology and man in the Western Ghats-The Case of Mahabaleshwar Plateau, Rawat Publications, NewDelhi.
- 6. Forest Survey of India: State Forests Reports, Dehradun.
- 7. Khullar, D.R. (2014): India: A Comprehensive Geography; Kalyani Publishers
- 8. Miller, R.W. et al. (1995): Soil in Our Environment, Prentice hall, U.S.A.
- 9. Raychudhari, S.P.(1958): Soils of India, ICAR, New Delhi
- 10. Robinson, F (ed.) (1989): The Cambridge Encyclopaedia of India, Pakistan, Bangladesh

Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous)

and Sri Lanka, Cambridge University Press.

- 11. Savindra Singh (2006): Physical Geography of India; Pravalika Publications,
- 12. Allahabad.
- 13. Sharma T.C. (2013) Economic Geography of India; Rawat Publications, New Delhi.
- 14. परमार राजेंद्र (२०१६) भारताचा प्राकृतिक भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.
- 15. घारपुरे विठ्ठल (२०१४) भारताचा भूगोल, पिंपळापुरे अँड पब्लीशर्स, नागपूर
- 16. पेडणेकर, नारखेडे व इतर (२०१७) भारताचा प्राकृतिक भूगोल, शेठ पब्लीशेर्स प्रायव्हेट लिमिटेड, मुंबई.
- 17. परमार राजेंद्र, बोरसे सुधाकर व इतर (२०२२) भारताचा भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.





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#### **Arts, Commerce and Science College, New Panvel (Autonomous)**

#### Syllabus for S.Y.B.A. (Geography) Semester- III

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

#### **Course Structure**

**Course Code: UAR3GE5** 

**Course Title:** Indian Knowledge System in Geography

Course Type: IKS Major-V No. of Credits: 02

CO	COs Statement
No.	After completing the Course students will be able to-
CO 1	Develop an understanding of how ancient Indian civilizations perceived and
CO-1	interpreted geographical phenomena (Level I-Remembering, Level-II-
	Understanding and Level-V- Evaluating)
	Analyse the interaction between cultural beliefs, environmental perceptions, and
CO-2	their influence on geographic knowledge in ancient India (Level-2-
	Understanding, Level IV- Analysing and Level-V- Evaluating)
CO-3	Foster an appreciation of how geography interacts and interlinks with other social
	sciences in ancient Indian traditions (Level-II- Understanding, Level-IV-
	Analysing and Level-V- Evaluating)
CO-4	Enhance the ability to critically evaluate ancient texts and ideas to draw parallels
	with modern geographical practices and principles. (Level-II- Understanding,
	Level-IV- Analysing)





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## **Arts, Commerce and Science College, New Panvel (Autonomous)**

# Choice Based Credit System (CBCS) S.Y.B.A. Geography Syllabus To be implemented from the Academic year 2025-26 SEMESTER- III

## INDIAN KNOWLEDGE SYSTEM IN GEOGRAPHY

Course Code: UAR3GE5 (Credit- 02)

Title of the Unit Ho		Hours
	UNIT-I:	
1.1	Introduction to Ancient Indian: Introduction to early Indian Scholars and Their Contributions to Geography.	
1.2	Ancient Indian cosmology: The concept of the Universe, Time Cycles (Yugas), The Idea of the Earth's shape and Structure as Depicted in Ancient Texts.	
1.3	Concepts of the Sacred and Symbolic Geography- Mount Meru, Jambudvipa, and the Four Quarters of the Earth.	15
1.4	Environmental Perception and Sacred Landscapes:  i. The Interplay Between Geography and Religion in Ancient India.  ii. The Significance of Rivers, Mountains and Forests in Ancient Geographical Thought.  iii. Pilgrimage Routes and the Concept of Tirthas	
	UNIT-II:	
2.1	<ul> <li>i. Kautilya's Arthashastra and its Geographical Implications.</li> <li>ii. Territorial Organization: Janapadas (Territorial Units), and Resource Distribution.</li> <li>iii. Strategic Geography: The Role of Geography in Warfare, Defense, and Diplomacy.</li> </ul>	
2.2	Trade Routes: Land and Maritime Routes Connecting India to World, The Role of Geography in the Economic Prosperity of Ancient Indian civilizations.	15
2.3	Urban Planning: Principles of Urban Planning as seen in Ancient Texts and Archaeological Evidence, The Relationship Between Geography and the Development of Urban Centers.	
2.4	The Geographical Layout of Ancient Cities: Harappa, Mohenjo-Daro, Lothal and Kalibanga.	

#### **Reference:**

- 1. D.P. Agarwal and S.P. Agarwal (1981): Geography of Ancient India: A gazetteer of the Ancient Indian World.
- 2. Bimala Churn Law (1937): Historical Geography of Ancient India.
- 3. A.S. Gaur (1987): Geography of India in Ancient Period.
- 4. Poonam Dalal Dahiya (2018): Geography of Ancient India.
- 5. B. Subbarao Cosmology and Geography in Early Indian Literature.
- 6. The Arthashastra of Kautilya" (translated by R. Shamasastry).
- 7. Rana P.B. Singh-Geographical Thoughts in India: A Chronological Analysis.
- 8. Ancient Indian Tradition and Mythology" (Puranas, various volumes, translated by G. P. Bhatt).
- 9. Rajesh Kochhar The Vedic People: Their History and Geography.
- 10. G. Fussman- India in the Ancient World: From the Beginnings to the End of the Maurya Empire.
- 11. Diana L. Eck-Sacred Geography of India.



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## Arts, Commerce and Science College, New Panvel (Autonomous)

#### Syllabus for S.Y.B.A. (Geography) Semester- III

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

#### **Course Structure**

**Course Code: USEC3TTG3** 

**Course Title:** Tools and Techniques in Geography-I

Course Type: SEC-III No. of Credits: 02

CO	COs Statement
No.	After completing the Course students will be able to-
CO-1	Understanding Maps, its types, learning map scales, its calculations, practicing and constructing projection for drawing maps. (Level-II- Understanding, Level-III- Applying, Level-IV- Analysing and Level-V- Evaluating)
CO-2	Learning, analysing the enlargement and reduction of maps, understanding measurements of maps, learning methods of representation. Understanding slopes and its measurements in Intervisibility. (Level-II- Understanding, Level-III- Applying and Level-V- Evaluating)





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#### Arts, Commerce and Science College, New Panvel (Autonomous)

#### Choice Based Credit System (CBCS) S.Y.B.A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER-III**

#### TOOLS AND TECHNIQUES IN GEOGRAPHY-I Course Code: USEC3TTG3 (Credit- 02)

Title of the Unit

UNIT-I: Map and Map Scale

1.1 Globe and Map: Definition, History and Elements
1.2 Classification, Importance and Construction of Map
1.3 Map Scale: Definition, Types, Conversion and Construction of scale
1.4 Projection: Definition, Basic concepts, Types and Construction

Ţ	JNIT-II: Map Enlargement, Reduction and Relief	
2.1	Enlargement and Reduction of Map	
2.2	Area calculation with square method and strip method	15
2.3	Methods of representation of relief on the map, Types of Slope and landforms	
2.4	Drawing of section to depict contour landforms- Intervisibility	

#### **Reference Books:**

- 1. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 2. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 3. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 4. Kumbhare A., Practical Geography,
- 5. Monkhouse F.J. Maps & Diagrams, Methuen and Co., London, 1971 (3rd Edition, Revised).
- 6. NCERT Textbook for Class-12, Practical Work in Geography Part II
- 7. Peter A. Rogerson Statistical Methods for Geography, Sege Publishers -2001
- 8. Robinson A.H. Elements of Cartography, Wiley
- 9. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata
- 10. Saptarshi P. G., Jog S. R., Statistical Methods,

- 11. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- 12. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 13. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 14. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 15. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.







#### CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### Syllabus for S.Y.B.A. (Geography) Semester- IV

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR4GE6** 

**Course Title:** Introduction to Oceanography

Course Type: Major-VI No. of Credits: 03

CO	COs Statement
No.	After completing the Course, students will be able to-
CO-1	Explain the origin, nature, scope and branches of Oceanography. (Level- I-
	Remembering, Level-II- Understanding)
	Explain the structure of ocean floor, composition, temperature and salinity of
CO-2	ocean water and ocean currents. (Level- I-Remembering, Level-II-
	Understanding, Level-V Evaluating)
CO-3	Explain the oceanic phenomenon and the marine ecosystem. (Level-II-
	Understanding, Level-V Evaluating)



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#### **Arts, Commerce and Science College, New Panvel (Autonomous)**

## Choice Based Credit System (CBCS) S.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER-IV**

#### INTRODUCTION TO OCEANOGRAPHY

Course Code: UAR4GE6 (Credit- 03)

Unit-I: Nature of Oceanography			
	emi i i i uture di decundgrupny		
1.1	Oceanography: Concept, Nature, Scope and Branches		
1.2	Characteristic of Oceans	15	
1.3	Temperature of Ocean Waters: Factors and distribution	15	
1.4	Salinity of Ocean Water: Factors and distribution		
	Unit-II : Coast and Characteristics of Ocean Water		
2.1	Types of Coast		
2.2	Ocean Floor Deposits	15	
2.3	Waves- Formation and Types		
2.4	Concept and Types of Tides		
	<b>Unit-III: Movements of Ocean Water and Marine Ecosystem</b>		
3.1	Ocean Currents – Types, Distribution and Effects of Ocean Currents		
3.2	Tsunami and their Effects on Coast	15	
3.3	Coral Reefs and their Importance		
3.4	Marine Ecosystem and Marine Pollution: Types and Characteristics		

#### Reference books:-

- 1. Bhatt, J.J. 91978): Exploring the Planet Ocean, D.Von Nostrand Co.New York.
- 2. Birla Economic Research Foundation, economic Research Division 91992): The Oceans, Allied Publishers Ltd. New Delhi.

- 3. Chandra, S. and Others (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/C), Institute of Distance and Open Learning, University of Mumbai.
- 5. Fairbridge, R.W.ed) Encyclopeadia of Oceanography, Reinholt, New York.
- 6. Sharma, R.C. (ed)(1985): The Oceans: realities and Prospects, Rajesh Publications, New Delhi.
- 7. Sengupta,R. and Desa E,(eds) (2001): The Indian Ocean: 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 Publishing, Sudbury, Massachusetts.
- 9. Rajgopalan, R (ed) (1996): Voices for Oceans, A Report to the Independent World Commission on the Oceans, International Ocean Institute, Operational centre, Madras, India
- 10. Qasim, S.Z(1998): Glimpses of Indian Ocean, Universities Press(India) Limited, Hyderabad.







## Arts, Commerce and Science College, New Panvel (Autonomous)

#### Syllabus for S.Y.B.A. (Geography) Semester- IV

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

#### **Course Structure**

**Course Code: UAR4GE7** 

**Course Title:** Geography of Maharashtra

Course Type: Major-VII No. of Credits: 03

CO	COs Statement		
No.	After completing the Course, students will be able to-		
CO-1	Understand the location, administrative setup and geographical personality of		
CO-1	Maharashtra. ( Level-II-Understanding and Level-IV- Analysing)		
CO-2	Explain the drainage and climate in Maharashtra. ( Level-II-Understanding, Level-		
CO-2	IV- Analysing, and Level-V Evaluating)		
	Explain the agriculture, fisheries and livestock resources in Maharashtra and to		
CO-3	evaluate the recent issues and policies of them. ( Level-II-Understanding ,Level-		
	IV- Analysing, and Level-V Evaluating)		





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Choice Based Credit System (CBCS)
S.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26
SEMESTER- IV

#### **GEOGRAPHY OF MAHARASHTRA**

Course Code: UAR4GE7 (Credit- 03)

	No. of Lectures		
1.1	Location, Extent and Boundaries and Administrative Setup And Divisions		
1.2	Relief	15	
1.3	Climate	15	
1.4	Drainage system		
	<b>Unit-II: Natural and Human Resources</b>		
2.1	Soils and Natural Vegetation		
2.2	Minerals and Power Resources	15	
2.3	Population Growth and Distribution		
2.4	Structure of population : Age-sex, Occupation, Education		
	Unit-III :Agriculture, Fishing and Livestock Resources		
3.1	Salient features of agriculture		
3.2	Agricultural regions, recent issues and policies	15	
3.3	Fisheries: Types, recent issues and policies		
3.4	Livestock resources: Types, recent issues and policies		

#### **References:**

- 1. Arunachalam B., (1967), Maharashtra A study in Physical and Regional Setting, Sheth and Co., Mumbai.
- 2. Bhamare, S.M., (2013). Geography of Maharashtra, Prashant Publication, Jalgaon.
- 3. Dasatane S., (1992). Glimpse of Maharashtra. Dasatane Ramchandra and Co., Pune.
- 4. Deshpande, C. D.,(1971). Geography of Maharashtra. National Book Trust, New Delhi.
- 5. Diddee, J., et al. (2002). Geography of Maharashtra, Rawat Publication, Jaipur.
- 6. Dixit, K.R., (1986). Maharashtra in Maps. Maharashtra State Board for Literature and Culture Mantralaya, Bombay (Mumbai).

- 7. Gadgil G. and Deshpande A., (1988), Maharashtra- Problems, potentials and prospects., Somaiya Publications, Mumbai.
- 8. Magar Jaykumar (2001). Bharatacha Bhugol. Vidya Publishers, Nagpur. (Marathi)
- 9. Patil, S. B., (2019). Geography of Maharashtra, Prashant Publication, Jalgaon.
- 10. Sarang Subhashchandra, (1997). Maharashtracha Bhugol, Vidya Prakashan, Nagpur. (Marathi)
- 11. Savadi, A.B., (2020). The Mega State -Maharashtra. Nirali Prakashan, Pune.
- **12**. Singh, R. L., (2012). India: A Regional Geography, National Geographical Society of India (NGSI), Banaras.





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## Syllabus for S.Y.B.A. (Geography) Semester- IV Choice Based Credit System Under New Education Policy (NEP) 2020 (Revised) (To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR4GE8** 

**Course Title:** Tools and Techniques in Geography-II

Course Type: Major-VIII No. of Credits: 02

CO	COs Statement
No.	After completing the Course students will be able to-
	Understanding Topographical maps, its reading and interpretation. (Level-II-
CO-1	Understanding, Level-III- Applying, Level-IV- Analysing and Level-V-
	Evaluating)
	Understanding and evaluating various Weather maps, instruments, and
CO-2	constructing various graphs. (Level-II- Understanding, Level-III- Applying,
	Level-V- Evaluating and Level- VI Creating)





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#### Choice Based Credit System (CBCS) S.Y.B.A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER-IV**

## TOOLS AND TECHNIQUES IN GEOGRAPHY-II

Course Code: UAR4GE8 (Credit- 02)

Title of the Unit			
UNIT-I: Indian Topographical Sheets/Maps			
1.1	Introduction of Topo sheets and types, Sign and Symbols		
1.2	Topographical Maps and Use of colors on map	15	
1.3	Reading and Interpretation of Topographical Maps-Physical Factors		
1.4	Reading and Interpretation of Topographical Maps- Cultural Factors		
UNIT-II: Weather Maps and Instruments			
2.1	Weather Maps: Types and Sign and Symbols		
2.2	Indian Daily Weather Reports: Introduction, Reading and	15	
	Interpretation	15	
2.3	Weather Instruments		
2.4	Construction of Graphs- Climograph, Hythergraphs and Wind Rose		

#### **Reference Books:**

- 1. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 2. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 3. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 4. Kumbhare A., Practical Geography,
- 5. Monkhouse F.J. Maps & Diagrams, Methuen and Co., London, 1971 (3rd Edition, Revised).
- 6. NCERT Textbook for Class-12, Practical Work in Geography Part II
- 7. Peter A. Rogerson Statistical Methods for Geography, Sege Publishers -2001
- 8. Robinson A.H. Elements of Cartography, Wiley
- 9. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata
- 10. Saptarshi P. G., Jog S. R., Statistical Methods,

- 11. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- 12. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 13. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 14. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 15. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.





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## **Arts, Commerce and Science College, New Panvel (Autonomous)**

#### Syllabus for S.Y.B.A. (Geography) Semester- IV

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

#### **Course Structure**

**Course Code: UCEP4CEP** 

**Course Title:** Community Engagement Project

Course Type: CEP No. of Credits: 02

CO	COs Statement	
No.	After completing the Course, students will be able to-	
CO-1	To understand the social, economic, and cultural dynamics within various communities in fostering social change and improving quality of life	
CO-2	To promote principles of social justice, equity, and inclusion in community development practice	

## Revised Scheme of Examination Faculty of Arts (Under-graduate Programmes)

#### **Choice Based Credit System (CBCS)**

#### **Revised Scheme of Examination**

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component by conducting the Semester End Examinations with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

#### A) Internal Assessment: 40 %

40 Marks

Sr.	Particular Particular	Marks
No.		
01	One periodical class test / online examination to be	20 Marks
	conducted in the given semester	
02	Group/ Individual Survey Project/Presentation and write up on the	15 Marks
	selected topics of the subjects/Case studies / Test based on tutorials /Book	
	Review /Poetry Appreciation/ Open Book Test	
03	Active participation in routine class instructional deliveries and overall	05 Marks
	conduct as a responsible learner, mannerism and articulation and exhibit	
	of leadership qualities in organizing related academic activities	

## Question Paper Pattern

(Periodical Class Test)

Maximum Marks: 20 Duration: 40 Minutes

Questions to be set: 03

All Questions are Compulsory

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

#### B) Semester End Examination: 60 %

• Duration: The examination shall be of 2 hours duration.

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## Question Paper Pattern for 03 Credits

Class:			Duration: 2 Hrs.	
Sub.:	Geography		Marks: 60	
Paper	Paper No.: Date:			
N.B	1] All questions are com	pulsory.		
	- ·	w diagrams wherever neces	-	
	3] Use of map stencil an	d simple calculator is allowed	d.	
		<u>,                                      </u>		
1.	Unit I (Broad Question			[15]
		OR		
1.	Unit I (Broad Question	)	[	[15]
2.	Unit II (Broad Questio	n)	]	[15]
	OR			
2.	Unit II (Broad Questio	n)	]	[15]
3.	Unit III (Broad Questic	n)	]	[15]
		OR		<u>-</u>
3.	Unit III (Broad Questic	n)	[	[15]
4.	Write Any Two Short I	Notes of the following	]	[15]
	A. Unit I			
	B. Unit II			
	C. Unit III			

#### > Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) separately, to pass the course and minimum of Grade D, wherever applicable, to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

## Question Paper Pattern for 02 Credits

Class:			Duration: 1 Hr.	
Sub.:	Geography		Marks: 30	
Paper	Paper No.: Date:			
N.B	1] All questions are com	pulsory.		
	2] Give example and dra	w diagrams wherever necessa	ıry.	
	3] Use of map stencil an	d simple calculator is allowed.		
1.	Choose the correct op	tions and fill in the blanks:		[10]
2.	Unit I (Broad Question	n)		[10]
		OR		
2.	Unit I (Broad Question	1)		[10]
3.	Unit II (Broad Questio	n)		[10]
		OR		
3.	Unit II (Broad Questio	n)		[10]

#### > Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) separately, to pass the course and minimum of Grade D, wherever applicable, to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.





## CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

Re-accredited A++ Grade by NAAC (Fourth Cycle-CGPA-3.52)

'College with Potential for Excellence' Status Awarded by UGC

'Best College Award' by University of Mumbai

As per National Education Policy – 2020 (Revised)

Title of the Programme B. Sc.

(OPEN ELECTIVE)

Syllabus for S.Y.B.Sc. Semester III and IV

(With effect from the Academic Year 2025-26)

Dr. D. S Narkhede

Chairman

Board of Studies in Geography

Prof. (Dr.) S.K. Patil

Changu Kana Thakur A.C.S. College

New Panvel (Autonomous)





## CHANGU KANA THAKUR

Arts, Commerce and Science College, New Panvel (Autonomous)

## As per National Education Policy – 2020 (Revised-2024)

Sr. No.	Heading	Particulars
1	Title of program	Bachelor of Arts
2	Eligibility	F.Y.B.Sc. of all recognized Universities
3	Duration of program	One Year
4	Intake Capacity	120
5	Scheme of Examination	External- 60 Marks Internal -40 Marks
6	Standards of Passing	40%
7	Semesters	III and IV
8	Program Academic Level	U.G.
9	Pattern	Semester (60:40)
10	Status	Revised
11	To be implemented from Academic Year	Academic Year 2025-26

Dr. D.S. Narkhede

Head, Department of Geography Changu Kana Thakur A.C.S. College,

New Panvel (Autonomous)

Prof. (Dr.) S.K. Patil

Principal Changu Kana Thakur

A.C.S. College,

New Panvel (Autonomous)





**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### **Preamble**

#### Introduction

Bachelor of Arts (B.A.) in Geography is a under graduation course of Department of Geography, Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous). The college has implemented the Revised National Education Policy 2020 from the Academic Year 2024-25 and Geography is one of the major subject offered by the college. The Choice Based Credit System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. This syllabus is prepared to give the sound knowledge and understanding of Geography to undergraduate students at first year of the B.A. degree course. The syllabus is prepared to determine and analyse knowledge of the facts, processes, and methods of Geography. The content of syllabus will expose the students to various emerging new areas of Geography and acquaint them with their prevalent in their future studies and their applications in society. Department also offers Vocational Skill Courses (VSC) and Skill Enhancement Courses (SEC) for the students and, through this courses students will acquire geographic analytical skills that can be applied to a variety of research and professional tasks where the analysis of spatial information is required.

#### **Abbreviations Used**

• POs : Program Outcomes

• PS: Program Structure

• PSOs : Program Specific Outcomes

• COs: Course Outcomes

• TLP: Teaching-Learning Process

• AM : Assessment Method

• DSC : Discipline Specific Core

• DSE : Discipline Specific Elective

• GE : Generic Elective

• OE : Open Elective

• VSC : Vocational Skill Course

• SEC : Skill Enhancement Course

• IKS : Indian Knowledge System

• AEC : Ability Enhancement Course

• VEC : Value Education Course

• OJT : On Job Training (Internship)

• FP : Field project

• CEP: Community engagement and service

• CC : Co-curricular Courses

RM : Research Methodology

RP : Research Project

• MJ : Major Course

• MN : Minor Course





#### **Arts, Commerce and Science College, New Panvel (Autonomous)**

#### Syllabus for S.Y.B.Sc. Semester- III

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

**Course Structure** 

Course Code: For S.Y.B.Sc. UOE3PGI2
Course Title: Physical Geography of India

Course Type: Open Elective (OE-II)

No. of Credits: 04

СО	COs Statement
No.	After completing the Course, students will be able to-
CO-1	Understand the physiographic divisions of India and its importance. (Level-II-
CO-1	Understanding)
CO-2	Understand and analyze the drainage system in India. (Level-II- Understanding
CO-2	and Level-IV- Analyzing)
	Explain the types of seasons, soil and forest in India and to evaluate the
CO-3	conservation methods. (Level-II- Understanding, Level-IV- Analyzing and
	Level-V- Evaluating)
CO-4	Classify and explain the minerals and power resources in India. (Level-II-
CO-4	Understanding, Level-IV- Analyzing and Level-V- Evaluating)



# Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR

## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## Choice Based Credit System (CBCS) S.Y.B.Sc. Semester- III Syllabus

## To be implemented from the Academic year 2025-26 (Revised) PHYSICAL GEOGRAPHY OF INDIA

Course Code: For S.Y.B.Sc. UOE3PGI2 (Credit- 04)

	(e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Title of the Unit	No. of	
		Hours	
	Unit I: India- Physiography, Drainage		
1.1	Location, extent and significance		
1.2	Major physiographic divisions		
1.3	Rivers: Himalayan Rivers and Rivers on peninsular plateau	15	
1.4	Lakes: Saltwater and Fresh water		
	Unit-II: Climate and Seasons		
2.1	Climate: Factors influencing on climate		
2.2 Mechanism of Monsoon		15	
2.3	El-Nino and La-Nina and their impact		
2.4	Seasons in India		
	Unit-III Soil and Forest Resources		
3.1	Soil :Types and Distribution		
3.2	Soil : Issues and Conservation	15	
3.3	Forest :Types and Distribution		
3.4	Forest :Issues and Conservation		
	<b>Unit-IV- Minerals and Power Resources</b>		
4.1	Minerals Resources: Classification and Distribution		
4.2	Major Metallic and non-metallic minerals	15	
4.3	Power Resources -Types and Distribution of conventional Resources		
4.4	Power Resources -Types and Distribution of Non-conventional Resources		
		•	

#### Reference:-

- 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 Unievrsity Press, Bombay.
- 3. Dikshit, K.R.(1991): Environment, Forest Ecology and man in the Western Ghats- The Case of Mahabaleshwar Plateau, Rawat Publications, NewDelhi.
- 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. Robinson, F (ed.) (1989): The Cambridge Encyclopedia of India, Pakistan, Bangladesh and Sri Lanka, Cambridge University Press.
- 8. Savindra Singh (2006): Physical Geography of India; Pravalika Publications, Allahabad.
- 9. Sharma T.C. (2013) Economic Geography of India; Rawat Publications, New Delhi.
- 11. परमार राजेंद्र (२०१६) भारताचा प्राकृतिक भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.
- 12.घारपुरे विठ्ठल (२०१४) भारताचा भूगोल ,पिंपळापुरे अँड पब्लीशर्स, नागपूर
- 13. पेडणेकर, नारखेडे व इतर (२०१७) भारताचा प्राकृतिक भूगोल, शेठ पब्लीशेर्स प्रायव्हेट लिमिटेड, मुंबई.
- 14. परमार राजेंद्र, बोरसे सुधाकर व इतर (२०२२) भारताचा भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.



# Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR



## **Arts, Commerce and Science College, New Panvel (Autonomous)**

#### Syllabus for S.Y.B.Sc. Semester- IV

Choice Based Credit System
Under New Education Policy (NEP) 2020 (Revised)
(To be implemented from the academic year 2025-2026)

#### **Course Structure**

Course Code: For S.Y.B.Sc. UOE4HGI3
Course Title: Human Geography of India

Course Type: Open Elective (OE-III)

No. of Credits: 04

CO	COs Statement
No.	After completing the Course, students will be able to-
CO-1	Understand the Agriculture, Animal Husbandry and Fishing in India (Level-II-
CO-1	Understanding)
CO-2	Understand and analyze the Industries in India. (Level-II- Understanding and
CO-2	Level-IV- Analyzing)
CO-3	Explain the Transport and Trade pattern, (Level-II- Understanding and Level-V-
CO-3	Evaluating)
CO-4	Explain the Regional Development and Contemporary Issues in India. (Level-II-
CO-4	Understanding, Level-IV- Analyzing and Level-V- Evaluating)





## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## Choice Based Credit System (CBCS) S.Y.B.Sc. Semester- IV Syllabus

To be implemented from the Academic year 2025-26 (Revised)

#### **HUMAN GEOGRAPHY OF INDIA**

Course Code: For S.Y.B.Sc. UOE4HGI3 (Credit- 04)

	Title of the Unit	No. of
		Hours
	Unit I: India- Agriculture, Animal Husbandry and Fishing	
1.1	Agriculture: Features, agricultural types and major crops	
1.2	Agriculture: New trends in Agriculture and issues	
1.3	Animal Husbandry: Characteristics, Types and Distribution	15
1.4	Fishing: Types, Distribution and Characteristics	
	Unit-II: Industries	
2.1	Industry: Locational factors	
2.2	Major industrial regions and Special Economic Zones (SEZ)	15
2.3	Manufacturing in India: Types, Opportunities and Challenges	
2.4	Make in India Campaign	
	Unit-III: Transport and Trade	
3.1	Development of transport network: Roads and Railways	
3.2	Development of transport network: Airways, Waterways and Pipelines	15
3.3	Trade: Sectorial Distribution and Exports and Imports of India	
3.4	Trade policy of India and export processing zones	
	<b>Unit-IV: Regional Development and Contemporary Issues</b>	
4.1	Five year plans and NITI Aayog	
4.2	International boundaries and related issues	15
4.3	Geopolitics of South Asia and Indian ocean realm	
4.4	Issues related to environment: Pollution, deforestation, desertification	

#### Reference:-

- 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.
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- 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. Robinson, F (ed.) (1989): The Cambridge Encyclopaedia of India, Pakistan, Bangla desh and Sri Lanka, Cambridge University Press.
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## Revised Scheme of Examination Faculty of Arts (Under-graduate Programmes)

#### **Choice Based Credit System (CBCS)**

#### **\*** Revised Scheme of Examination

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component by conducting the Semester End Examinations with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

#### A) Internal Assessment: 40 %

40 Marks

Sr. No.	Particular	Marks
01	One periodical class test / online examination to be	20.34
01	conducted in the given semester	20 Marks
	Group/ Individual Survey Project/Presentation and write up on the	
02	selected topics of the subjects/Case studies / Test based on tutorials /Book	15 Marks
	Review /Poetry Appreciation/ Open Book Test	
03	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit	05 Marks
	of leadership qualities in organizing related academic activities	

## Question Paper Pattern for 04 Credits

Class:	ass: Duration: 2 Hrs.		•	
Sub.:	Geography		Marks: 60	
Paper	· No.:		Date:	
N.B	1] All questions are com	oulsory.		
	2] Give example and dra	v diagrams wherever necess	ary.	
	3] Use of map stencil an	simple calculator is allowed	l <b>.</b>	
1.	Unit I (Broad Question			[15]
		OR		
1.	Unit I (Broad Question			[15]
2.	Unit II (Broad Questio	)		[15]
		OR		_
2.	Unit II (Broad Questio	)		[15]

3.	Unit III (Broad Question)	[15]
	OR	
3.	Unit III (Broad Question)	[15]
4.	Unit III (Broad Question)	[15]
	OR	
4.	Unit III (Broad Question)	[15]

#### > Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) separately, to pass the course and minimum of Grade D, wherever applicable, to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.





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Re-accredited A++ Grade by NAAC (Fourth Cycle-CGPA-3.52)

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As per National Education Policy - 2020

Title of the Programme
B. A. in Geography
(Faculty of Arts)

Syllabus for T.Y.B.A. (Geography)

Semester V and VI

(With effect from the academic year 2025-26)

Dr. D. S Narkhede

Chairman

Board of Studies in Geography

New Panvel & Panvel &

Prof. (Dr.) S.K. Patil

Principal

Changu Kana Thakur A.C.S. College, New Panvel (Autonomous)





## **CHANGU KANA THAKUR**

## Arts, Commerce and Science College, New Panvel (Autonomous)

## As per National Education Policy – 2020

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6	Standards of Passing	40%
7	Semesters	V and VI
8	Program Academic Level	U.G.
9	Pattern	Semester (60:40)
10	Status	Revised
11	To be implemented from Academic Year	Academic Year 2025-26

Dr. D.S. Narkhede

Head, Department of Geography, Changu Kana Thakur A.C.S. College,

New Panvel (Autonomous)

Prof. (Dr.) S.K. Patil

Principal

Changu Kana Thakur

A.C.S. College,

New Panvel (Autonomous)



## Janardan Bhagat Shikshan Prasarak Sanstha's CHANGU KANA THAKUR



**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### **Preamble**

#### Introduction

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• FP: Field project

• CEP: Community engagement and service

• CC : Co-curricular Courses

RM : Research Methodology

• RP: Research Project

MJ : Major Course

• MN : Minor Course





## **CHANGU KANA THAKUR**

## **Arts, Commerce and Science College, New Panvel (Autonomous)**

**Program Outcomes (POs)** 

no.	POs Statement	V 1. 1 1	
PO No.	After completing the Bachelor of Arts Program, students	Knowledge and Skill	
140.	will be able to-	SKIII	
	Demonstrate a blend of conventional discipline knowledge and its		
PO-1	applications to the modern world. Execute strong theoretical and	Disciplinary	
	practical understanding generated from the chosen programme	Knowledge	
	and equip the students with a strong academic perspective.		
	Exhibit the skill of critical thinking and use higher order cognitive skills to approach problems situated in their social environment,	Critical Thinking,	
PO-2	propose feasible solutions and help in its implementation. The	Cognitive skills	
10-2	students will be able to comprehend, learn, process and apply	and Problem	
	knowledge in day to day life.	Solving	
	Ability to analyse and evaluate different concepts of problems of	Analytical Skills	
PO-3	society and make students able to develop oral and written	and Effective	
	communication skills in literature.	Communication	
	Equip with strong work attitudes and Employment skills that will	Competencies for	
PO-4	enable them to work independently as well as collaboratively.	Competencies for employment and	
10-4	Seeks opportunity for research and higher academic achievements	Research	
	in the chosen field and allied subjects.	Research	
DO -	Able to work collaboratively and effectively with diverse groups	Individuality and	
PO-5	towards personal and common goals. Develop leadership qualities	Teamwork	
	among the learners.  Demonstrate empathetic social concern and equity centred		
	national development; ability to act with an informed awareness	Effective	
PO-6	of moral and ethical issues and commit to professional ethics as	Citizenship and	
	well as to accomplish their duties and responsibilities as citizens	Ethics	
	successfully.		
PO-7	Express oneself clearly and precisely to build good interpersonal	Social compatones	
10-7	relationships in personal and professional life.	Social competence	
	Understand the impact of the scientific solutions in societal and		
PO-8	environmental contexts and demonstrate the knowledge of, and	Environment	
	need for environmental conservation and sustainability through	sustainability	
	action.	0-16 1: ( 1 1	
PO-9	Acquire the ability to engage in independent and life-long learning in the broadest context of socio technological changes	Self-directed and	
	in the broadest context of socio-technological changes.  Help students to share gifts, pursue justice and demonstrate	Life-long learning	
PO-10	through communicative solutions, concern for the poor and	Community	
10-10	marginalised.	engagement	



# Janardan Bhagat Shikshan Prasarak Sanstha's **CHANGU KANA THAKUR**



## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## **Program Specific Outcomes (PSOs)**

PSO	PSOs Statement	Knowledge and	
No.	After completing the Bachelor of Arts Program, students will be able to-	Skill	
	Explain the concepts of physical and human Geography.	Disciplinary	
PSO-1	Evaluate the environmental concerns and able to provide	knowledge and	
	the sustainable solutions.	social interaction	
PSO-2	Analyse and interpret the geographical data for research.	Critical thinking and	
P3O-2		problem solving	
	Acquire skills to use modern instruments and technology	Scientific reasoning	
PSO-3	in Geography and its applications.	and research related	
		skills	







## **CHANGU KANA THAKUR**

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

Syllabus for T.Y.B.A. (Geography) Semester- V

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR5GE9** 

**Course Title:** Geography of Settlement

Course Type: Major-IX

No. of Credits: 04

CO	COs Statement		
No.	After completing the Course students will be able to-		
	Understand the importance, nature and scope of Settlement Geography and types		
CO-1	of settlements. (Level-I- Remembering and Level- II- Understanding, Level-V-		
	Evaluating)		
	Explain the origin, growth, classification the distribution, density and variations		
CO-2	in rural settlement patterns and morphology in India. (Level- II- Understanding,		
	Level-III- Applying)		
	Explain the origin, growth and classification of urban settlements and examine		
CO-3	the models of urban settlement. (Level-I- Remembering, Level-II-		
	Understanding and Level-IV- Analysing)		
	Understand the process, problems of urbanization and examine the impacts of		
CO-4	urbanization in Indian cities. (Level-I- Remembering, Level- II- Understanding,		
	and Level-V- Evaluating)		





## **CHANGU KANA THAKUR**

## **Arts, Commerce and Science College, New Panvel (Autonomous)**

Choice Based Credit System (CBCS)
T.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26

#### **SEMESTER-V**

#### **GEOGRAPHY OF SETTLEMENT**

Course Code: UAR5GE9 (Credit- 04)

	UNIT – I: Introduction of Settlement Geography	Hours
1.1	Settlement Geography: definitions, nature and scope	
1.2	Importance of settlement studies in Geography	15
1.3	Factors influencing growth and distribution of settlements	15
1.4	Settlement types, their characteristics and differences	
	UNIT – II: Geography of Rural Settlements	
2.1	Origin, Growth, Site and situation of rural settlements	
2.2	Classification of rural settlements	15
2.3	Spatial distribution and density of rural settlements and Structure of house and	13
2.3	building materials in India	
2.4	Regional variations in rural settlement patterns and Morphology in India	
	LINIT III. Coography of Linhan Cattlements	
2.1	UNIT – III: Geography of Urban Settlements	
3.1	Origin and growth of urban settlements	15
3.2	Classification of urban settlements on the basis of culture and functions	15
3.3	Hierarchy of Urban Settlement: Rank Size Rule and Primate city	
3.4	Christaller's Central Place Theory	
	UNIT – IV: Urban Settlements in India	
4.1	Urbanization in India: Trends, patterns and types of towns based on Census	
4.2	Morphology of urban settlements in India	15
4.3	Impact of urbanization on Indian cities	
4.4	Smart city: Concept, need and implementation in India	

#### **References:**

- 1. Desphpande, C. D. (2005): "Cities: A Geographical Study", Translated by V. G. Amrite, Manan Prakashan, Mumbai
- 2. Gharpure, V. (2013): "Nagari Bhugol", (Marathi) Pimpalapure and Company Publishers, Nagpur
- 3. Gharpure, V. (2013): "Vasti Bhugol", (Marathi) Pimpalapure and Company Publishers, Nagpur
- 4. Gharpure, V. (2017): "Manavi Bhugol", (Marathi) Pimpalapure and Company Publishers, Nagpur
- 5. Ghosh. S. (2015): "Introduction to Settlement Geography", Orient Blackswan Private Limited, Hyderabad
- 6. Jyptirmoy Sen (2007): A Text Book of Social and Cultural Geography," Kalyani Publsiher, New Delhi.
- 7. Knowles, R and Wareing, J. (1996): "Economic and Social Geography", the Made Simple Series, Rupa & Co., Calcutta
- 8. Leong, Goh-Cheng and Morgan, G. (1994): "Human and Economic Geography", Oxford University Press, Oxford
- 9. Noble, A. (1998): "Using Descriptive Models to Understand South Asian Cities", *Education About Asia*, Vol. 3, No. 3, Downloaded from <a href="http://aas2.asian-studies.org/EAA/EAA-Archives/3/3/205.pdf">http://aas2.asian-studies.org/EAA/EAA-Archives/3/3/205.pdf</a>
- 10. Siddhartha, K and Mukherjee, S. (2016): "Cities, Urbanisation and Urban Systems (Settlement Geography)", KitabMahal, Allahabad
- 11. Singh, L. R. (2009): "Fundamentals of Human Geography", Sharda Pustak Bhawan, Allahabad
- 12. Singh, R. Y. (2012): "Geography of Settlements", Rawat Publications, Jaipur
- 13. Tiwari, R. C. (2016): "Geography of India", Pravalika Publications, Allahabad
- 14. Thakur S. A. and others "Settlement Geography"/ *Vasti Bhugol* Konkan Geographers, Publication (2012)





## **CHANGU KANA THAKUR**

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

Syllabus for T.Y.B.A. (Geography) Semester- V
Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)
Course Structure

**Course Code: UAR5GE10** 

**Course Title:** Economic Geography

Course Type: Major-X

No. of Credits: 04

	Course Outcomes (Cos)		
CO No.	COs Statement		
	After completing the Course students will be able to-		
CO 1	Explain the nature, scope branches and approaches of Economic Geography.		
CO-1	(Level-I- Remembering, Level-II- Understanding and Level-IV- Analysing)		
CO-2	Explain and classify human economic activities. (Level- II- Understanding,		
CO-2	Level-III- Applying)		
	Explain the mineral resources, industrial development, importance and pattern of		
CO-3	transport, international trade and trade organizations. (Level-I- Remembering,		
	Level-II- Understanding and Level-IV- Analysing)		
	Explain the levels of economic development and evaluate the impact of		
CO-4	globalization, Special Economic Zones and related issues in India. (Level-I-		
	Remembering, Level- II- Understanding and Level-V- Evaluating)		







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

# Choice Based Credit System (CBCS) T.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER-V**

#### **ECONOMIC GEOGRAPHY**

Course Code: UAR5GE10 (Credit- 04)

U	nit – 1: Introduction of Economic Geography	Hours
1.1	Definition, Nature and Scope	
1.2	Branches of Economic Geography	
1.3	Approaches to study Economic Geography and Relation with other	15
	social sciences	
1.4	Resources: Concept, Classification and Importance in Economy	
	Unit – 2: Economic Activities	
2.1	Economic Activities: Types and Characteristics	
2.2	Factors Affecting on Economic Activities	15
2.3	Agriculture and Lumbering: Types and Distribution	
2.4	Fishing and Animal Husbandry: Types and Distribution	
Unit	- 3: Minerals, Industries, Transport and Trade	
3.1	Minerals: Importance, Characteristics and Distribution	
3.2	Factors Affecting Industrial Locations	15
3.3	Major Transport Patterns in the World	13
3.4	Patterns of International Trade: Composition and Direction and Major	
	International Trade Organizations:	
	Unit – 4: Economic Development of India	
4.1	Regionalization of India based on Levels of Economic Development	
4.2	Globalization and its impact on Indian economy	15
4.3	Special Economic Zones, Geospatial policy and Gatishakti	
4.4	Issues related to Environment and Economic Development in India	

#### **References:**

- 1. Datt, G. And Mahajan, A. (2016): "Datt and Sundaram's Indian Economy", S. Chand Publishing, New Delhi
- 2. Drezee J and Sen A.: "Indian Economic Development and Social Opportunity", Oxford University Press, London
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- 8. Saxena, H. (2016): "Economic Geography", Rawat Publishers, Jaipur
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- 10. Vaidya B.C. (1998): "Readings in Transportation Geography", Devika Publications, New Delhi.
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## **CHANGU KANA THAKUR**

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### Syllabus for T.Y.B.A. (Geography) Semester- V

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR5GE11** 

**Course Title:** Statistical Techniques in Geography-III

Course Type: Major-XI No. of Credits: 02

CO No.	COs Statement
	After completing the Course students will be able to-
CO-1	Demonstrate an understanding the types of data and able to draw the graphs. Solve the examples of measures of central tendency, dispersion and deviation (Level-II- Understanding, Level-III- Applying and Level-IV- Analysing)
Solve the examples of correlation, regression and hypothesis testing. CO-2 the point, line and area sampling. (Level- II- Understanding, Level-III- A and Level-V- Evaluating)	







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

# Choice Based Credit System (CBCS) T.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER-V**

#### STATISTICAL TECHNIQUES IN GEOGRAPHY-III

Course Code: UAR5GE11 (Credit- 02)

Unit	- I: Nature of data and Measures Central Tendency and Deviation	Hours
1.1	Meaning and types of data, Frequency Distribution, Histogram, Frequency	
	Polygon and Ogive curve	
1.2	Measures of Central Tendency- mean, median and mode	15
1.3	Measures of Deviation: Range, Quartile Deviation, Mean Deviation, and Standard	
	Deviation	
1.4	Time Series Analysis Moving Averages (3 years and 5 years)	
Unit	-II: Correlation, Regression & Sampling	
2.1	Calculation of correlation coefficient - Pearson's and Spearman's	
	methods	15
2.2	Regression analysis and Chi square test	
2.3	Sample design in Geography -Point sampling	1
2.4	Line sampling and Area Sampling	1

#### **References:**

- 1. Ahirrao ani Karanjkhele प्रात्यक्षिक भूगोल,
- 2. Karlekar Shrikant- प्रात्यक्षिक भूगोल, डायमंड पब्लिकेशन्स
- 3. Karlekar Shrikant- Bhoogol shastratil Sanshodhan Paddhati, डायमंड पब्लिकेशन्स
- 4. Monkhouse F.J. Maps & Diagrams, Methuen and Co., London, 1971 (3rd Edition, Revised).
- 5. NCERT Textbook for Class-12, Practical Work in Geography Part II
- 6. Peter A. Rogerson Statistical Methods for Geography, Sege Publishers -2001
- 7. Robinson A.H. Elements of Cartography, Wiley
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- 9. Sarkar Ashis Quantitative Geography, Orient Black Swan 2013
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## CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### Syllabus for T.Y.B.A. (Geography) Semester- V

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR5GEE1** 

**Course Title:** Regional Planning and Development

Course Type: Major Elective-I No. of Credits: 04

CO	COs Statement
No.	After completing the Course students will be able to-
CO-1	Understand the concept, nature and problems associated with Regional Planning
	(Level-I- Remembering, Level-II- Understanding and Level-IV- Analysing)
CO-2	Explain the concept, types of region and demarcate the planning regions. (Level-
CO-2	II- Understanding, Level-III- Applying)
	Understand the concept and indicators of development and to explain the
CO-3	strategies and regional disparities in development. (Level-I- Remembering,
	Level-II- Understanding and Level-IV- Analysing)
	Explain the planning and planning regions, the micro level planning in rural
CO-4	area, backward area and metropolitan planning of India. (Level-I- Remembering
	and Level- II- Understanding, Level-V- Evaluating)







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

Choice Based Credit System (CBCS)
T.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26

#### **SEMESTER- V**

#### REGIONAL PLANNING AND DEVELOPMENT

Course Code: UAR5GEE1 (Credit- 04)

UNIT	- I: Understanding Regional Planning	Hours
1.1	Planning: Concept, types and need	
1.2	Regional planning: Concept, nature, relation with Geography	15
1.3	Role of surveys and geospatial technology in regional planning	15
1.4	Problems associated with regional planning	
	- II: Concept of Region in Planning	
2.1	Region: Concept, types and delineation	
2.2	Planning Regions: Need, characteristics and hierarchy	15
2.3	Demarcation of planning regions: Principles, criteria and methods	
2.4	Perroux's Growth Pole Theory and regional planning	
UNIT	- III: Understanding Regional Development	
3.1	Development: Concept and indicators	
3.2	Regional disparities in development: Concept and measurements	15
3.3	Spatial and Non-Spatial Models of Development with Special Reference to	13
3.3	Rostow's Model and Myrdal's Model	
3.4	Strategies for regional development	
UNIT	- IV: Regional Planning in India	
4.1	Five-Year Plans and NITI Ayog: Features, achievements and failure	
4.2	Planning regions of India and Multi-level planning in India	15
4.3	Micro level planning in rural area and Backward area development	13
	Programmes	
4.4	Urban fringe of Indian cities: Problems and planning	

#### **References:**

- 1. Chand, Mahesh (2000): "Regional Planning In India", Allied Publishers Ltd., Mumbai
- 2. Chandana, R. C. (2016): "Regional Planning and Development", Kalyani Publishers, New Delhi
- 3. Dhamdhere, S. et al (2015): "Arthik Vikas Ani Niyojan", (Marathi), Diamond Publications, Pune *Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous)*

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- 7. Misra, R. P. (2002): "Regional Planning", Concept Publishing Co., New Delhi
- 8. NITI Ayog (2017): "Three Year Action Plan (2017-18 to 2019-20)", NITI Ayog, New Delhi
- 9. Tiwari, R. C. (2016): "Geography of India", Pravalika Publications, Allahabad

#### **Books for further reading:**

- 1. Bhargava, G. (2001): "Development of India's Urban, Rural, and Regional Planning in 21<sup>st</sup> Century: Policy Perspective", Gyan Publishing House, Delhi
- 2. Datt, G. And Mahajan, A. (2016): "Datt and Sundaram's Indian Economy", S. Chand Publishing, New Delhi
- 3. Devi, Laxmi (2000): "Planning Development and Regional Disparities", (ed.) Anmol Publications, New Delhi
- 4. Dhamdhere, S. and Shinde, S. (2010): "Bhartiya Ani Jagtik Arthik Vikas" (Marathi), Diamond Publications, Pune
- 5. Hall, P. (2016): "Urban and Regional Planning" Routledge, London
- 6. Knowles, R and Wareing, J. (1996): "Economic and Social Geography", the Made Simple Series, Rupa& Co., Calcutta
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- 8. Sundaram, K. V. (1989): "Regional Planning and Development: Essays on Space, Society, and Development in Honour of Professor R. P. Misra", Heritage Publishers, New Delhi
- 9. Vidyarthi, A. et al (2017): "Understanding India's New Approach to Spatial Planning and Development: A Spatial Shift?", Oxford University Press, New Delhi
- 10. Yojana, Monthly Journal Published in English and Marathi by Government of Maharashtra

#### **IMPORTANT WEBSITES / WEB LINKS:**

- 1. mmrda.maharashtra.gov.in
- 2. niti.gov.in
- 3. planningcommission.gov.in
- 4. yojana.gov.in





## CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### Syllabus for T.Y.B.A. (Geography) Semester- V

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)

**Course Structure** 

Course Code: UAR5GEE1
Course Title: Biogeography

Course Type: Major Elective-I No. of Credits: 04

COs Statement
After completing the Course students will be able to-
Explain the nature, scope, branches and approaches of Biogeography. (Level-I-
Remembering, Level-II- Understanding and Level-IV- Analysing)
Explain the Structure, components, functions and types of ecosystem and
biosphere. (Level-I- Remembering and Level- II- Understanding)
Classify the plant community, biotic succession and major plant formation and
biomes. (Level-I- Remembering, Level-II- Understanding and Level-IV-
Analysing)
Explain the types, importance, loss and conservation of biodiversity. (Level-I-
Remembering, Level- II- Understanding and Level-V- Evaluating)







## Arts, Commerce and Science College, New Panvel (Autonomous)

Choice Based Credit System (CBCS)
T.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26

#### **SEMESTER- V**

#### **BIOGEOGRAPHY**

Course Code: UAR5GEE1 (Credit- 04)

Unit-I:	Introduction to Biogeography	Hours
1.1	Biogeography-Concept, definition, nature and scope	
1.2	Historical development and branches of Biogeography	15
1.3	Approaches in Biogeography	13
1.4	Importance of Biogeographic studies	
Unit-II	: Ecosystem and Biosphere	
2.1	Ecology: Concept and Components	
2.2	Ecosystem: Concept, meaning and types	15
2.3	Components of ecosystem and ecosystem productivity	
2.4	Biosphere: Concept, meaning, components	
Unit -I	II: Plant Community	
3.1	Concept of plant community and classification of plants	
3.2	Biotic succession and climax vegetation	15
3.3	Major plant formation and biomes- Tropical	
3.4	Major plant formation and biomes- Temperate	
Unit-I	V: Biodiversity	
4.1	Biodiversity: meaning, importance and types	
4.2	Causes of Biodiversity loss	15
4.3	Biodiversity conservation	
4.4	Biosphere reserves of India	

#### **References:**

1. Bharucha, E. (2004): "A Textbook for Environmental Studies", University Grants Commission, New Delhi, Downloaded from

https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf

- 2. Cunningham, W, and Cunnigham, M. (2017): "Principles of Environmental Science: Inquiry and Applications", McGraw Hill Education, Delhi
- 3. Gautam, A. (2010): "Environmental Geography", Sharda Pustak Bhavan, Allahabad
- 4. Karlekar, S. and Borges, J. (2008): "Diamond Bhugol- Paryavaran Shatra Kosh", (Marathi), Diamond Publications, Pune

- 5. Rajagopalan, R. (2016): "Environmental Studies: From Crisis to Core", Oxford University Press, New Delhi
- 6. Sangle, S. (2017): "Paryavaran Bhugol", (Marathi), Diamond Publications, Pune
- 7. Saxena, H. (2017): "Environmental Geography", Rawat Publishers, Jaipur.
- 8. Singh, S. (2017): "Environmental Geography", Prayag Pustak Bhawan, Allahabad
- 9. Ahirrao, W.R. & Others: "Biogeography", Nirali Prakashan, Pune
- 10. Agrawal, L.C.: "Biogeography", Rawat Publications, Jaipur
- 11. Parmar and other "Pryavaran Bhugol" Himalaya Publishing House Mumbai 2013
- 12. Thakur and other "Pryavaran Bhugol" Konkan Geographer's Publication





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**Arts, Commerce and Science College, New Panvel (Autonomous)** 

#### Syllabus for T.Y.B.A. (Geography) Semester- V

Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UVSC5GT** 

**Course Title:** Geospatial Technology

Course Type: Major VSC No. of Credits: 04

CO No.	COs Statement
	After completing the Course students will be able to-
CO-1	Demonstrate an understanding the concept, components of Geospatial
	Technology. (Level-I- Remembering and Level- II- Understanding)
	Explain the concepts of DEM and able to analyse, GNSS and GPS be able to use
CO-2	the applications GPS as well as capable to survey through GPS. (Level-I-
CO-2	Remembering, Level- II- Understanding, Level-V- Evaluating and Level-VI
	Creating)
CO-3	Use of image/map in GIS software's and Geo-referencing. (Level- II-
CO-3	Understanding, Level-V- Evaluating and Level-VI Creating)
CO-4	Create the maps by using GIS software's. (Level- II- Understanding, Level-V-
CO-4	Evaluating and Level-VI Creating)







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

Choice Based Credit System (CBCS) T.Y.B. A. Geography Syllabus

To be implemented from the Academic year 2025-26

#### SEMESTER- V GEOSPATIAL TECHNOLOGY

Course Code: UVSC5GT (Credit- 04)

UNIT –	I: Remote Sensing – I	Hours
1.1	Remote Sensing: Concept, Components and Importance	
1.2	Electromagnetic Energy, EMR and EMS - Effects of Atmosphere on	
	EMR, Spectral Reflectance and Spectral Signature or Curve - Platforms,	
	Sensors and Resolution	15
1.3	Elements of Visual Image Interpretation - Mapping of Thematic Layers	
	and Visual Image Interpretation of Physical and Manmade Features	
1.4	Aerial Photographs: Concept, Process, Types and Interpretation	1
UNIT –	II: Remote Sensing – II and GNSS	
2.1	Concept of DEM, Digital image analysis: land use and land cover	
	classification, 3D view of DEM	
2.2	Advanced Remote Sensing Technology - Use of Bhuvan portal	15
2.3	GNSS and GPS: Concept, GPS Data Accuracy and Errors Segments,	15
	Applications	
2.4	Ground Survey and Demarcation of Point, Line and Polygon Features with	
	GPS Device – Transfer GPS Data to Computer	
UNIT –	III: Geographic Information System – I	
3.1	GIS: Concept, Components and Applications - Map Projection and	
	Coordinate System	
3.2	GIS Data Sources and Types	15
3.3	Use of Image/map into GIS Software and Geo-referencing	_
3.4	Creating Layers by Digitization of Point, Line and Polygon Features	
UNIT –	IV: Geographic Information System – II	
4.1	Functions of Database Creation – Input, Editing and Linking	1
4.2	Spatial Database Analysis: Overlay, Merge, Query	15
4.3	Map compositions for Map Layout and Design	1
4.4	Preparation of Thematic Maps	

#### **References:**

- 1. Afzal Sharieff and et. al. (Ed.) (2010): An Introduction to Remote Sensing, SARUP Book Publishers Pvt. Limited, New Delhi.
- 2. Anson, R. W. and Ormeling, F. J., (Ed.) (1993): Basic Cartography for Students and Technicians,

- Vol.I, International Cartographic Association and Elseiver Applied Science Publishers, London.
- 3. American Society of Photogrammetry (1983): Manual of Remote Sensing, ASP Palis Church, V. A. Agrawal, N.K.(2006), Essentials of GPS (Second Edition), Book Selection Centre, Hyderabad
- 4. Bhatia (2016): Remote Sensing and GIS, Oxford University Press, New Delhi.
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- 8. Bernhardsen, Tor (2002): Geographical Information Systems: An Introduction, ThirdEdition, John Wiiey& Sons, Inc., New York.
- 9. Burrough, Peter A and McDonnell, R.A. (1998): Principles of Geographical Information Systems, Oxford University Press, Mumbai.
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- 12. Central Board of Secondary Education (New Delhi): Geospatial Technology Textbook, Class XI and XII
- 13. Chaisman, N. 1992: Exploring Geographical Information Systems, John Wiley and Sons Inc., New York. Lillesand, T.M. and Kiefer, R. W. 1994: Remote Sensing and Image Interpretation, 3rd edition, John Wiley and Sons, New York.
- 14. Dickinson, G. C. (1977) Statistical Mapping and the Presentation of Statistics, EdwardArnold Ltd., London.
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- 16. George Joseph (2013): Fundamentals of Remote Sensing, Second Edition, UniversitiesPress (India) Private Limited, Himayatnagar, Hyderabad.
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- 18. Jonson. R. J. (2003): Remote Sensing of the Environment-An Earth Resources Perspective
- 19. Kang-Tsang Chang (2010): Introduction to Geographic Information Systems, TataMcGraw Hill Edition, New Delhi.
- 20. Lillesand and Keifer (2010) Remote Sensing and Image Interpretation, Fourth Edition, Wiley.
- 21. Pearson Education Series in Geographical Information Science, Keith C. Clarke (Serieseditor) Pearson Educators Private Limited. (Singapore), New Delhi.
- 22. Sudhakar S (1993): Forest Type and Density Mapping in Meghalaya through Digital Image Processing of Indian Remote Sensing Satellite Data, Collaborative project report by Meghalaya State Forest Dept. and RRSSC, Kharagpur.
- 23. Thomson O and Frank S (2000): Time Integrative Geographic Information System, Springer, New York.
- 24. Training Module of Capacity Building Training Programme in Geospatial Technology sponsored by Department of Science and Technology, Government of India in collaboration of Himachal Pradesh University.
- 25. Tutorials from the <a href="http://dst-iget.in/tutorials">http://dst-iget.in/tutorials</a> bhuvan.nrsc.gov.in/
- 26. <a href="https://www.iirs.gov.in/">https://www.iirs.gov.in/</a>







## **CHANGU KANA THAKUR**

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

Syllabus for T.Y.B.A. (Geography) Semester- VI Choice Based Credit System

Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR6GE12** 

**Course Title:** Environmental Geography

Course Type: Major-XII No. of Credits: 04

CO No.	COs Statement
	After completing the Course students will be able to-
CO-1	Understand the nature, scope, importance and man-environment relationship in
	Environmental Geography. (Level-I- Remembering and Level- II- Understanding)
CO-2	Explain the Structure, functions and types of ecosystem. (Level-I- Remembering
	and Level- II- Understanding)
	Evaluate the contemporary environmental problems with their causes, effect and
CO-3	solutions. (Level-I- Remembering, Level-II- Understanding and Level-IV-
	Analysing)
	Understand the concept, types, distribution and hotspots of biodiversity.
CO-4	Evaluate the threats and conservation methods of biodiversity (Level-I-
	Remembering, Level-II- Understanding and Level-IV- Analysing)







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

Choice Based Credit System (CBCS)
T.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26

#### **SEMESTER- VI**

#### **ENVIRONMENTAL GEOGRAPHY**

Course Code: UAR6GE12 (Credit- 04)

	UNIT-I: Fundamentals of Environmental Geography	Hours
1.1	Concept and Definitions of Environmental Geography	
1.2	Nature, Scope and Importance	15
1.3	Human Interaction with Environment	15
1.4	Interdisciplinary Approach of Environmental Geography	
	TINITE II. E a grandana	
	UNIT-II: Ecosystem	
2.1	Ecosystem: Meaning, definition and its Structure	
2.2	Functions: Energy Flow, Food Chain, Food Web, Tropic Level and Food Pyramid	15
2.3	Classification of Ecosystem: Terrestrial and Aquatic	
2.4	Bio-geochemical Cycles: Hydrological, Carbon and Nitrogen	
	LINUT III. Condonne Conference and Lancas	
	UNIT-III: Contemporary Environmental Issues	
3.1	Pollution: Air and Water- Causes, effects and Solutions	
3.2	Pollution: Land and Noise- Causes, effects and Solutions	15
3.3	Major Environmental Issues: Global Warming, Ozone Depletion and Acid Rain	
3.4	Major Environmental Movements: Local, National and International	
	UNIT-IV: Natural Resources and Biodiversity	
4.1	Natural Resources: Meaning, Definition and Importance	
4.2	Types of Natural Resources	15
4.3	Depletion and Measures of Conservation of Natural Resources	
4.4	Biodiversity in India and its Conservation	

#### **References:**

- 1. Bharucha, E. (2004): "A Textbook for Environmental Studies", University Grants Commission, New Delhi,
- 2. Cunningham, W, and Cunnigham, M. (2017): "Principles of Environmental Science: Inquiry and Applications", McGraw Hill Education, Delhi
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- 5. Karlekar, S. and Borges, J. (2008): "Diamond Bhugol- Paryavaran Shatra Kosh", (Marathi), Diamond Publications, Pune
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## CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

Syllabus for T.Y.B.A. (Geography) Semester-VI Choice Based Credit System Under New Education Policy (NEP) 2020 (To be implemented from the academic year 2025-2026) Course Structure

**Course Code: UAR6GE13** 

**Course Title:** Social Geography

Course Type: Major-XIII No. of Credits: 04

Course Outcomes (Cos)		
CO No.	COs Statement	
	After completing the Course students will be able to-	
CO-1	Explain the nature, scope, branches of Social Geography and concept of socio-	
	cultural regions. (Level-I- Remembering, Level-II- Understanding and Level-IV-	
	Analysing)	
CO-2	Understanding the race, religion, language and tribes in the world and	
	distinguish between them. (Level-I- Remembering and Level-II- Understanding)	
CO-3	Explain the race, religion, language and tribes in India and distinguish between	
	them. (Level-I- Remembering and Level-II- Understanding)	
CO-4	Evaluate the contemporary social issues and social welfare policies of	
	government of India.in India. (Level-I- Remembering, Level-II- Understanding	
	and Level-IV- Analysing)	







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## Choice Based Credit System (CBCS) T.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER- VI**

#### **SOCIAL GEOGRAPHY**

Course Code: UAR6GE13 (Credit- 04)

	UNIT-I: Introduction to Social Geography	Hours
1.1	Definitions, Nature, Scope and importance	
1.2	Branches and Approaches in Social Geography	15
1.3	Concept of Social Space and Socio-cultural Regions	13
1.4	Globalization: The Process of Social and Spatial Change	
	UNIT-II: Elements of Social Geography -World	
2.1	Race: Concept and Basis of Classification and distribution	
2.2	Religion: Characteristics, Distribution of Major Religions in the World	15
2.3	Language: Characteristics and Distribution of Major Linguistic Families in the World	13
2.4	Tribes: Concept, Characteristics and Distribution of Major Tribes in the World	
UNIT-III: Elements of Social Geography –India		
3.1	Race: Major races and its distribution in India	
3.2	Religion: Major Religions and its distribution and its distribution in India	15
3.3	Language: Major Linguistic Families in India	
3.4	Tribes: Distribution of Scheduled Tribes in India	
	UNIT-IV: Contemporary Issues and Policies in India	
4.1 Religion related social issues and Policies		
4.2	Language related social issues and Policies	15
4.3	Patterns of gender issues in India and Policies	
4.4	Socio-economic problems of indigenous communities in India and Policies	

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# CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

## Syllabus for T.Y.B.A. (Geography) Semester- VI Choice Based Credit System Under New Education Policy (NEP) 2020 (To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR6GE14** 

**Course Title:** Research Methodology

Course Type: Major-XIV No. of Credits: 02

CO	COs Statement
No.	After completing the Course students will be able to-
CO-1	Explain the concepts, types and stapes in the research methodology, formulation of research and research design. Use the methods of data collection and able to process the data. (Level- II- Understanding, Level-V- Evaluating and Level-VI Creating)
CO-2	Analyse the data by using MS Excel and SPSS software's and able to formulate the hypothesis. Explain the basics of research report writing and prepare the research report. (Level- II- Understanding, Level-III Applying, Level-V- Evaluating and Level-VI Creating)







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

Choice Based Credit System (CBCS)
T.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26

#### **SEMESTER- VI**

#### RESEARCH METHODOLOGY

Course Code: UAR6GE14 (Credit- 02)

UNIT-I: Research Methodology in Geography					
	Research in Geography: Concept, Classification, Steps and Significance				
1.1	Review of Literature, Ethics in Research				
	Research Methodology: Meaning and Types (Qualitative and Quantitative)				
1.2	Defining the Research Problem: Meaning, Need and Techniques and Research	15			
1.2	Designs: Concept, Need and Objectives	15			
1.3	Sample Design, Measurement and Scaling				
1.4	Data Collection in Geography: Types (Primary and Secondary) and Methods				
1.4	(Observation, Questionnaire, Schedule, Interview, etc.)				
	UNIT-II: Data Collection, Processing and Analysis				
2.1	Role of Internet in Research: Online Research Referencing (Shodhganga,				
2.1	INFLIBNET, Research Gate, Academia, Mendeley, etc.)				
2.2	Data Processing: Editing, Coding, Classification and Tabulation	15			
2.2	And Data Analysis: Meaning, Significance and Types				
2.3	Using MS-Excel and SPSS for Data Analysis; Hypothesis, Types and				
2.3	Testing				
2.4	Field Work & Preparation of Research Report				

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## CHANGU KANA THAKUR

## **Arts, Commerce and Science College, New Panvel (Autonomous)**

## Syllabus for T.Y.B.A. (Geography) Semester- VI Choice Based Credit System Under New Education Policy (NEP) 2020 (To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR6GEE2** 

**Course Title:** Political Geography

Course Type: Major Elective-II No. of Credits: 04

CO	COs Statement
No.	After completing the Course students will be able to-
CO-1	Understand the nature, scope, historical development and recent trends in Political Geography. Explain the concepts of state, nation and nationalism. (Level-I- Remembering, Level-II- Understanding and Level-IV- Analysing)
CO-2	Explain the approaches and concepts in Political Geography. (Level-I-Remembering, Level-II- Understanding and Level-IV- Analysing)
CO-3	Explain the concept, distinction and functions and classification of frontiers and boundaries. Evaluate the disputes related with India's boundaries. (Level-I-Remembering, Level-II- Understanding and Level-IV- Analysing)
CO-4	Explain the Geostatic and Geopolitical views. (Level-I- Remembering, Level-II- Understanding and Level-IV- Analysing)







## **Arts, Commerce and Science College, New Panvel (Autonomous)**

# Choice Based Credit System (CBCS) T.Y.B. A. Geography Syllabus To be implemented from the Academic year 2025-26

#### **SEMESTER- VI**

#### POLITICAL GEOGRAPHY

Course Code: UAR6GEE2 Credit- 04

UNIT-I: Introduction of Political Geography		
1.1	Definition, Nature and Scope of Political Geography	
1.2	Historical Development and Recent Trends in Political Geography	15
1.3	Concept of state and factors	13
1.4	Concept of Nation, Nation-State, and Nationalism	
	UNIT-II: Approaches and Concepts in Political Geography	
2.1	Hartshorne's Fundamental Approach: Centrifugal and Centripetal Forces	1.5
2.2	Unified Field Theory	15
2.3	Core Areas: Concept, Characteristics, and Distribution	
2.4	Capitals: Concept, Functions, and Classification	
	UNIT-III: Frontiers and Boundaries	
3.1	Frontiers and Boundaries: Concepts and Distinction	
3.2	Functions of Frontiers and Boundaries	15
3.3	Classification of Boundaries	
3.4	India's Boundaries: Characteristics and Disputes	
	UNIT-IV: Geostrategic and Geopolitical Views	
4.1	Mackinder's Heartland and Spykman's Rimland Theory	
4.2	Geopolitics of Indian Ocean & Himalayas	
4.3	Geopolitics of International Water Disputes with Special Reference	
	to India	
4.4	Changing Political Map of World and India	

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### CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

Syllabus for T.Y.B.A. (Geography) Semester- VI Choice Based Credit System Under New Education Policy (NEP) 2020

(To be implemented from the academic year 2025-2026)

**Course Structure** 

**Course Code: UAR6GEE2** 

**Course Title:** Population Geography

Course Type: Major Elective-II No. of Credits: 04

	Course outcomes (Cos)
CO No.	COs Statement
	After completing the Course students will be able to-
	Understand the nature, scope, importance of Population Geography and explain
CO-1	the relation with other social sciences. (Level-I- Remembering, Level-II-
	Understanding)
	Explain and analyse the structure, growth, density and distribution of population
CO-2	in India and World. (Level-I- Remembering, Level-II- Understanding and Level-
	IV- Analysing)
	Understand the causes, consequences of migration and to explain the trends of
CO-3	migration in India. (Level-II- Understanding, Level-IV- Analysing, and Level-
	V- Evaluating)
CO-4	Explain the contemporary issues of population in India. (Level-II-
CO-4	Understanding, Level-IV- Analysing and Level-V- Evaluating)



## **CHANGU KANA THAKUR**



## **Arts, Commerce and Science College, New Panvel (Autonomous)**

Choice Based Credit System (CBCS)
T.Y.B. A. Geography Syllabus
To be implemented from the Academic year 2025-26

#### **SEMESTER- VI**

#### POPULATION GEOGRAPHY

Course Code: UAR6GEE2 Credit- 04

UNIT-I: Introduction to Population Geography		
1.1	Concept, definition, nature, scope, importance	
1.2	Approaches to the study of Population Geography	15
1.3	Basic sources of population data	13
1.4	Population Geography and other social sciences	
	UNIT-II: Population Dynamics	
2.1	Population growth in the world	
2.2	Causes and effects of population growth in India	15
2.3	Population density and its determinants	
2.4	Structure of population (Age ,Sex and occupational)	
	UNIT-III: Migration	
3.1		
	Definition and Classification of Migration	15
3.2	Factors affecting on migration - Pull and push factors	15
3.3	Consequences of Migration	
3.4	Recent trend of migration in India	
	UNIT-IV: Contemporary Issues in India	
4.1	Ageing population and Increasing number of old age home	
4.2	Gender issues, Sexual assault, Domestic violence	15
4.3	Poverty and unemployment in India	15
4.4	Rapid urbanization and problem caused by urbanization in India	

#### **References:**

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- 2. ChandnaR.C.andSidhuM.S.,1980:An Introduction to Population Geography, Kalyani Publishers
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## CHANGU KANA THAKUR

**Arts, Commerce and Science College, New Panvel (Autonomous)** 

Syllabus for T.Y.B.A. (Geography) Semester- VI
Choice Based Credit System
Under New Education Policy (NEP) 2020
(To be implemented from the academic year 2025-2026)
Course Structure

**Course Code:** UOJT6OJT **Course Title:** On Job Training

Course Type: OJT No. of Credits: 04

Course Outcomes (Cos)					
CO	COs Statement				
No.	After completing the Course students will be able to-				
CO-1 Apply concepts learned in classrooms to real-world work envir enhancing their understanding and skills. (Level-II- Understanding, I Applying, Level-V- Evaluating and Level-VI Creating)					
CO-2	Use and appreciate the use of emerging technologies and their application enhancing their technological literacy and adaptability. (Level-Understanding, Level-IV- Analysing, Level-V- Evaluating and Level-V- Creating)				
CO-3	Work in teams and collaborate to achieve common goals in diverse work environments through collaborative projects. (Level-IV- Analysing, Level-V-Evaluating and Level-VI Creating)				
Navigate through various learning modalities effectively through hybrid learning models. (Level-V- Evaluating and Level-VI Creating					
CO-5	Display integrity in their dealings with their work and the people that they interact with by upholding professional; principles and ethical standards. (Level-IV- Analysing, Level-V- Evaluating and Level-VI Creating)				

# Revised Scheme of Examination Faculty of Arts (Under-graduate Programmes)

#### **Choice Based Credit System (CBCS)**

#### **Revised Scheme of Examination**

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component by conducting the Semester End Examinations with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

#### A) Internal Assessment: 40 %

#### 40 Marks

**Duration: 40 Minutes** 

Sr.	Particular Particular	Marks
No.		
01	One periodical class test / online examination to be	20 Marks
	conducted in the given semester	
02	Group/ Individual Survey Project/Presentation and write up on the	15 Marks
	selected topics of the subjects/Case studies / Test based on tutorials	
	/Book Review /Poetry Appreciation/ Open Book Test	
03	Active participation in routine class instructional deliveries and overall	05 Marks
	conduct as a responsible learner, mannerism and articulation and	
	exhibit of leadership qualities in organizing related academic activities	

## Question Paper Pattern (Periodical Class Test)

Maximum Marks: 20 Questions to be set: 03

All Questions are Compulsory

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

## B) Semester End Examination: 60 %

• Duration: The examination shall be of 2 hours duration.

# Question Paper Pattern for 04 Credits

Class:			Duration	: 2 Hrs.
Sub.: Geography			Marks: 6	0
Pape	Paper No.: Date:			
N.B	N.B 1] All questions are compulsory.			
	2] Give example and dr	_	•	
	3] Use of map stencil ar	simple calculator i	s allowed.	
	H 1 (D 10 1			F4 #3
1.	Unit I (Broad Question			[15]
		OR		
1.	Unit I (Broad Question			[15]
2.	Unit II (Broad Questic	)		[15]
		OR		
2.	Unit II (Broad Questic	)		[15]
3.	Unit III (Broad Questi	n)		[15]
		OR		
3.	Unit III (Broad Questi	n)		[15]
4.	Write Any Two Short	lotes of the follow	ing	[15]
	A. Unit I			
	B. Unit II			
	C. Unit III			

#### > Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) separately, to pass the course and minimum of Grade D, wherever applicable, to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

# Question Paper Pattern for 02 Credits

Class:			Duration: 1	Hr.
Sub.	: Geography		Marks: 30	
Pape	er No.:		Date:	
N.B	1] All questions are com	oulsory.		
	2] Give example and dr	aw diagrams wherever neo	cessary.	
	3] Use of map stencil ar	nd simple calculator is allo	owed.	
1.	Choose the correct or	tions and fill in the blan	ks:	[10]
2.	Unit I (Broad Question	1)		[10]
		OR		
2.	Unit I (Broad Question	n)		[10]
3.	Unit II (Broad Question	n)		[10]
		OR		
3.	Unit II (Broad Question	n)		[10]

#### > Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) separately, to pass the course and minimum of Grade D, wherever applicable, to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.