

NEP 2020 Syllabus SYBA Geography

AC:

Item No.



**Rayat Shikshan Sanstha's**  
**KARMAVEER BHAURAO PATIL COLLEGE, VASHI,**  
**EMPOWERED AUTONOMOUS COLLEGE**

Sector-15- A, Vashi, Navi Mumbai -400 703

NAAC Grade "A+" with CGPA 3.53

Revised Syllabus

Program: B.A. Geography

SYBA

Semester: III and IV

(As per NEP-2020, with effect from the academic  
year 2024-25)

Rayat Shikshan Sanstha's  
**Karmaveer Bhaurao Patil College, Vashi**  
 (Autonomous College)  
**Department of Geography**  
**BA Geography**  
**SYBA**

Course No.	Course Title	Course Type	Course Code	CIE Marks	SEE Marks	Total	Credit Points
<b>Semester III</b>							
1	Physical Geography of India	Major	GEO201	40	60	100	4
2	An Introduction to Climatology	Major	GEO202	40	60	100	4
3	Geography of Maharashtra	Minor	GEO203	40	60	100	4
4	Disaster Management-I	OE	GEO204	40	60	100	2
5	Practicals in Physical Geography-II	VSC	GEO205	-	-	50	2
6	Environmental Studies-I	AEC	GEO206	20	30	50	2
7	Field Project		GEO207			50	2
8	Co-Curricula activity					50	2
<b>TOTAL CREDIT</b>							<b>22</b>
<b>Semester IV</b>							
1	Agricultural Geography of India	Major	GEO251	40	60	100	4
2	An Introduction to Oceanography	Major	GEO252	40	60	100	4
3	Geography of Tourism	Minor	GEO253	40	60	100	4
4	Disaster Management-II	OE	GEO254	20	30	50	2
5	Surveying (Drone/Total Station)	SEC	GEO255	-	-	50	2
6	Environmental Studies-II	AEC	GEO256	20	30	50	2
7	Field Project		GEO257				2
8	Co-Curricula activity						2
<b>TOTAL CREDIT</b>							<b>22</b>
<b>GRANT TOTAL OF CREDIT FOR SECOND YEAR</b>							<b>44</b>

**Draft Syllabus under Autonomy**  
With effect from the Academic Year 2024-25

**MAJOR SUBJECT**

**PHYSICAL GEOGRAPHY OF INDIA**

**COURSE OUTCOME:**

- CO1: Understand importance of the location and the geographical personality of India.
- CO2: Understand the variability of drainage pattern and climate in India.
- CO3: Study the soil and forest resources, problems related to its depletion and conservation methods.
- CO4: Study the minerals and energy resources in India.

**Modules at a Glance**

**PHYSICAL GEOGRAPHY OF INDIA (GEO201)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Introduction of India	15
2	Drainage and Climate	15
3	Soils and Natural Vegetation	15
4	Mineral and Power Resources	15

**S.Y.B.A. GEOGRAPHY (Major)**  
**PHYSICAL GEOGRAPHY OF INDIA**  
 SEMESTER: III COURSE CODE: GEO201, Credits: 04

Units	Name of the sub Topics	No of Lectures
<b>Unit – I Introduction of India</b>		
1.1	India: Location , extent and significance	15
1.2	Introduction to physiography of India	
1.3	Mountainous region of India	
1.4	North Indian plains	
1.5	Peninsular plateau of India	
<b>Unit – II Drainage system</b>		
2.1	introduction to drainage system	15
2.2	Major Himalayan rivers of India	
2.3	Major Peninsular Rivers of India	
2.4	Major lakes of India	
<b>Unit – III Soils and Natural Vegetation</b>		
3.1	Classification of soils of India	15
3.2	Problems associated with soils and its remedies in India	
3.3	Classification of Forest in India	
3.4	Importance of Forest in Indian context	
<b>Unit – IV Mineral and Power Resources</b>		
4.1	Distribution of Metallic Minerals in India: Iron ore, Manganese, Bauxite and Copper.	15
4.2	Distribution of Non-Metallic Minerals in India: Mica, Limestone and Gypsum	
4.3	Distribution of Power Resources : Coal, Mineral Oil and Natural Gas, Thorium and Uranium	

**REFERENCES**

1. Deshpande C.D. (1992): India: A Regional Interpretation, Northern Book Centre, New Delhi.
2. Dikshit, K.R.(1991): Environment, Forest Ecology and man in the Western Ghats-The Case of Mahabaleshwar Plateau, Rawat Publications, New Delhi.
3. Khullar, D.R. (2014): India: A Comprehensive Geography; Kalyani Publishers
4. Miller, R.W. et al. (1995): Soil in Our Environment, Prentice hall, U.S.A.
5. Raychudhari, S.P.(1958): Soils of India, ICAR, New Delhi
6. Savindra Singh (2006) : Physical Geography of India ; Pravalika Publications, Allahabad.
7. Sharma T.C. ( 2013) Economic Geography of India; Rawat Publications, New Delhi.
8. Shinde P. ; Pednekar H. et.al. (2010): Introduction to Geography, Sheth Publishers Pvt.Ltd., Mumbai.
9. Shinde P. ; Pednekar H. et.al. (2011): Economic Geography of India, SYBA paper IISheth Publishers , Pvt.Ltd., Mumbai
10. Singh, R.L. (1971): India-A Regional Geography, National Geographical Society of India, Varanasi.
11. Tirth, R (1996): Geography of India, Rawat Publications, Jaipur.
12. Majid Hussain (2014, 5<sup>th</sup> edition): Geography of India, McGraw Hill Education (India) Private Ltd, Uttar Pradesh.

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**MAJOR SUBJECT**

**AN INTRODUCTION TO CLIMATOLOGY**

**COURSE OUTCOME:**

- CO1: Understand the introduction to Climatology considering weather & climate, nature, scope, and some other sub division of the course.  
CO2: Understand weather phenomena winds, humidity, precipitation and winds.  
CO3: Understand the process, methods of weather forecasting and climatic changes.  
CO4: Learn the climatic changes, its causes, effects and its measures.

**Modules at a Glance**

**AN INTRODUCTION TO CLIMATOLOGY (GEO202)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Introduction to Climatology	15
2	Air Pressure and Atmospheric Circulation	15
3	Humidity and Precipitation	15
4	Climate and Weather Phenomena	15

**S.Y.B.A. GEOGRAPHY (Major)**  
**AN INTRODUCTION TO CLIMATOLOGY**  
 SEMESTER: III COURSE CODE: GEO202, Credits: 04

Units	Name of the Sub Topic	No of Lectures
<b>Unit- I Introduction to Climatology</b>		
1.1	Definition, nature, scope and branches of climatology	15
1.2	Concept and elements of weather and climate	
1.3	Composition and structure of atmosphere	
1.4	Insolation: Vertical and horizontal distribution of temperature	
<b>Unit – II Air Pressure and Atmospheric Circulation</b>		
2.1	Air pressure: Influencing factors – Tricellular model	15
2.2	Horizontal distribution of air pressure	
2.3	Wind: Types of winds – global, regional and local	
2.4	Upper air circulation – jet stream ( concept, origin and effects)	
<b>Unit – III Humidity and Precipitation</b>		
3.1	Humidity: Types - absolute, relative and specific	15
3.2	Condensation and its form	
3.3	Precipitation and its types	
3.4	Global distribution of rainfall	
<b>Unit – IV Climate and Weather Phenomena</b>		
4.1	Cyclones: tropical and temperate	15
4.2	Anti-cyclones and tornados	
4.3	El Nino and Indian monsoon	
4.4	Global warming and climate change	

**REFERENCES:**

- Ahrens, C.D. (2012): Essentials of Meteorology: An Invitation to the Atmosphere; Cengage Learning, Boston
- 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
- Barry, R.G. and Chorley, R.J. (2003): Atmosphere, Weather and Climate; Psychology Press, Hove; East Sussex.
- Chawan S.V. (ed) (2015): Physical Geography, Paper I, Published by Director (I/C), Institute of Distance and Open Learning, University of Mumbai.
- Critchfield, H.J., (1975): general Climatology, Prentice Hall, New Jersey.
- Lal D.S. (1997): Climatology; Sharda Pustak Bhavan; Allahabad
- Lydolph, P.E.( 1985): The Climate of the Earth, Rowman Nad Allanheld, Totowa, New Jersey.
- Mather,J.R.(1974): Climatology: Fundamentals and Applications; Mc Craw Hill Book Co., U.S.A.
- Matthews, W. H., Kellogg, W., Robinson, G.D. (1971): Man’s Impact on Climate; M.I.T. Press Design Dept. U.S.A.
- Trewartha, G.T. (1980): An Introduction to Climate; McGraw Hill, New York, 5th edition, (International Student Edition)
- Rosenberg, N.J., Blad, B.L., Verma, S.B.(1983): Micro-climate Biological Environment; John Wiley & Sons, U.S.A.
- Rumney, G.R. (1968): Climatology and the World Climates, Macmillan, London.
- Shinde P. ; Pednekar H. et.al. (2010): Introduction to Geography, Sheth Publishers Pvt.Ltd., Mumbai.

**Draft Syllabus under Autonomy**  
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**MINOR SUBJECT**  
**GEOGRAPHY OF MAHARASHTRA**

**Course Outcome:**

- Understand the Geographical Setting of Maharashtra
- Understand the natural resources and human resources
- Study of agricultural regions, recent issues and policies
- Get knowledge of major industrial regions

**Modules at a Glance**  
**Geography of Maharashtra**  
**(GEO203)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Maharashtra: Geographical Setting	15
2	Natural Resources	15
3	Human Resources	15
4	Agriculture, Fishing and Livestock Resources	15

**T.Y.B.A. GEOGRAPHY**  
**Minor Subject**  
**GEOGRAPHY OF MAHARASHTRA**  
**SEMESTER- III; COURSE CODE: GEO203; COURSE CREDIT: 04**

<b>Unit-I : Maharashtra: Geographical Setting</b>		<b>No of Lectures</b>
1.1	Location, extent and boundaries	<b>15</b>
1.2	Administrative setup and divisions	
1.3	Relief and climate	
1.4	Drainage system	
<b>Unit-II : Natural Resources</b>		<b>15</b>
2.1	Soils	
2.2	Natural vegetation	
2.3	Minerals	
2.4	Power resources	
<b>Unit-III : Human Resources</b>		<b>15</b>
3.1	Population growth	
3.2	Distribution –urban-rural and population density	
3.3	Structure of population : Age-sex	
3.4	Occupational structure of population	
<b>Unit-IV :Agriculture, Fishing and Livestock Resources</b>		<b>15</b>
4.1	Salient features of agriculture	
4.2	Agricultural regions, recent issues and policies	
4.3	Fisheries, recent issues and policies	
4.4	Livestock resources recent issues and policies	

**REFERENCES:**

- Jaymala Diddee, S.R. Jog, V.S. Kale Geography of Maharashtra
- Johns: Economic Geography -
- Khullar: Geography of India
- Majid Hussein: Geography of India
- Oxford: Oxford School atlas-
- Savinder Singh Environmental Geography
- Sharma: India's economic and commercial geography
- economic and commercial geography



**Draft Syllabus under Autonomy**

With effect from the Academic Year 2024-25

**OE**

**Disaster Management-I**

**COURSE OUTCOME:**

CO1:

CO2:

CO3:

CO4:

**Modules at a Glance**

**Disaster Management-I (GEO204)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Definition and types of disaster	15
2	Study of Important disasters	15

**S.Y.B.A. GEOGRAPHY (OC)**  
**Disaster Management -I**  
 SEMESTER: III COURSE CODE: (GEO204), Credits: 04

Units	Name of the sub Topics	No of Lectures
<b>Unit – I Definition and Types of Disaster</b>		
1.1	Hazards and Disasters, Risk and Vulnerability in Disasters,	15
1.2	Natural Disasters, Earthquakes, Floods, Drought, Cyclones, Landside ,Volcanoes, Tsunami, Avalanches	
1.3	Man-made disasters: Terrorism, Gas and Radiations Leaks, Toxic Waste Disposal, Oil Spills, Forest Fires.	
<b>Unit – II Study of Important disasters</b>		
2.1	Earthquakes and its Types, Magnitude and Intensity, Seismic Zones and Major Fault Systems of India	15
2.2	Flood Types and its Management, Drought Types and its Management, Landslide and its Managements, Case Studies of Disasters in Malin or Irshalgad Landslide	
2.3	Social Economics and Environmental Impact of Disasters.	

**Text Books:**

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.

**Draft Syllabus under Autonomy**  
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**VSC**

**PRACTICALS IN PHYSICAL GEOGRAPHY**

**COURSE OUTCOME:**

- CO1:
- CO2:
- CO3:
- CO4: .

**Modules at a Glance**

**PRACTICALS IN PHYSICAL GEOGRAPHY (GEO205)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Topographical Maps	15
2	Drainage network analysis	15

**S.Y.B.A. GEOGRAPHY (VSC)**  
**PRACTICALS IN PHYSICAL GEOGRAPHY**  
SEMESTER: III COURSE CODE: GEO205, Credits: 02

<b>Units</b>	<b>Name of the sub Topics</b>	<b>No of Lectures</b>
<b>Unit – I Topographical Maps</b>		15
1.1	Reading of Topographical Maps	
1.2	Methods of Relief Representation	
<b>Unit – II Drainage network analysis</b>		15
2.1	Topological Analysis of Drainage Networks	
	A) Strahler's Method	
	B) Horton's Method	

**Books Recommended**

1. Monkhouse, F.J.: Maps & Diagram.
2. Robinson, A.H.: Elements of Practical Geography.
3. Singh, R.L. Elements of Practical Geography.
4. Mishra, R.P. and Ramesh, A: Fundamentals of Cartography.

## Draft Syllabus under Autonomy

### AEC

### ENVIRONMENTAL STUDIES-I

#### LEARNING OBJECTIVES:

1. To create an environmental awareness among commerce students.
2. Make students aware about various environmental elements and their relation to the field of Commerce.
3. To highlight functional and spatial links between environment, economy and society.
4. To create an insight into various environmental issues at various levels and need for environmental management for sustainable future.

**COURSE OUTCOMES:** After completion of the course, learners will be able to:

CO1: Better understanding of relationship between environment and Commerce.

CO2: Awareness about various environmental issues and their implications for environment and society

CO3: Understanding of the need to follow sustainable agriculture and industrial practices especially in India

CO4: Adoption of environment friendly habits and responsible behavior in use of resources like water, electricity.

### Modules at a Glance

#### Environmental Studies-I (GEO206)

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Environment and Ecosystem	15
2	Natural Resources	15

**S.Y.B.A. GEOGRAPHY (AEC)**  
**ENVIRONMENTAL STUDIES-I**  
SEMESTER: III COURSE CODE: GEO206, Credits: 02

Units	Name of the sub Topics	No of Lectures
<b>Unit – I Environment and Ecosystem</b>		15
1.1	Environment: Meaning, definition and its components;	
1.2	Concept of an ecosystem: definition, components and types.	
1.3	Food Chain and Food Web, Ecological Pyramid	
1.4	Man and Environment Relationship	
<b>Unit – II Natural Resources</b>		15
2.1	Meaning and Definition; Classification and types of Resources	
2.2	Factors Influencing Resource Utilization	
2.3	Issues Associated With Management of Water and Forest	
2.4	Resource Conservation – Meaning and Methods	

**REFERENCES:**

1. Erach Bharucha, 2010, Textbook of Environmental Studies, University Grant Commission,.
2. P.G. Shinde, et.al, 2018, Environmental Studies, Sheth Publisher Pvt. Ltd.
3. Savindra Singh, 2016, Environmental Geography, Pravalika Publication, Allahabad.
4. Vibbha Kumar, et.al, 2018, Environmental Studies, Himalaya Publisher Pvt. Ltd.
5. Baishakhi Dutta, et.al, 2018, Environmental Studies, Vipul's Publisher Pvt. Ltd.
6. Amrit & Chakraborti, et.al, 2018, Environmental Studies, Manan Publisher Pvt. Ltd.

**Draft Syllabus under Autonomy**  
With effect from the Academic Year 2024-25

**MAJOR SUBJECT**

**AGRICULTURAL GEOGRAPHY OF INDIA**

**COURSE OUTCOME:**

CO1: Understand the introduction to agriculture, nature, scope, significance and approaches of agriculture geography.

CO2: Understand features, determinants, major crops and problems of Indian agriculture

CO3: Understand the history, components and impacts of green revolution in India.

CO4: Understand the development of recent trends and technology used in agriculture in India.

**Modules at a Glance**

**AGRICULTURAL GEOGRAPHY OF INDIA (GEO251)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Introduction to Agricultural Geography	15
2	Irrigation Scenario	15
3	Introduction to Indian Agriculture	15
4	Green and White Revolution in India	15

**S.Y.B.A. GEOGRAPHY (Major)**  
**AGRICULTURAL GEOGRAPHY OF INDIA**  
 SEMESTER: IV COURSE CODE: GEO251, Credits: 04

Units	Name of the Sub Topics	No of Lectures
<b>Unit – I Introduction to Agricultural Geography</b>		
1.1	Definition, Nature and Scope of Agricultural Geography	15
1.2	Approaches: Regional Approach, Systematic Approach, Commodity Approach, Recent Approaches	
1.3	Importance of Agriculture in Indian Economy	
1.4	Influencing Factor of Agriculture	
<b>Unit – II Irrigation Scenario</b>		
2.1	Importance of Irrigation	15
2.2	Sources of Irrigation	
2.3	Major Canals in India	
<b>Unit – III Introduction to Indian Agriculture</b>		
3.1	Salient features of Indian agriculture	15
3.2	Types of Farming and Major Crops of India	
3.3	Agro- climatic regions of India	
3.4	Problems Associated with Indian Agriculture	
<b>Unit – IV Agricultural Revolutions in India</b>		
4.1	Introduction to Agricultural Revolutions	15
4.2	Components of Green and White Revolution	
4.3	Impact of Green Revolution	
4.4	Recent trends of Agriculture in India	

**REFERENCES:**

1. Bansil, B. C. (1975): 'Agricultural Problems of India', Delhi.
2. Bayliss Smith, T.P. (1987) : The Ecology of Agricultural Systems. Cambridge University Press, London .
3. Berry, B.J.L. et. al.(1976) : The Geography of Economic Systems. Prentice Hall, New York.
4. Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
5. Grigg, D. (1984): 'An Introduction to Agricultural Geography', Hutchinson Publication, London
6. Grigg, D.B.(1974) : The Agricultural Systems of the World. Cambridge University Press, New York.
7. Hartshorn, T.N. and Alexander, J.W. (1988): Economic Geography. Prentice Hall, New Delhi.
8. Morgan W.B. and Norton, R.J.C. (1971): Agricultural Geography. Mathuen, London,
9. B Boulde..(1978): Agriculture in the Third World - A Spatial Analysis. Westview Press,
10. Sauer, C. O. (1952): 'Agricultural Origins and Dispersals', American Geographical Journal
11. Sauer, C.O.(1969): Agricultural Origins and Dispersals. M.I.T. Press, Mass, U.S.A.
12. Singh J.(1997): Agricultural Development in South Asia: A Comparative A Study in the Green Revolution Experiences, national Books Organization, New Delhi.
13. Singh, J. and Dhillon, S. S. (1984): 'Agricultural Geography', McGraw Hill, New Delhi.



## Draft Syllabus under Autonomy

With effect from the Academic Year 2024-25

### MAJOR SUBJECT

#### AN INTRODUCTION TO OCEANOGRAPHY

#### COURSE OUTCOME:

CO1: Understand the origin, development and branches of oceanography.

CO2: To learn the importance and physical structure and composition of ocean water and relief.

CO3: Knowledge about the formation, types and effect of tides and ocean currents.

CO4: Understand the relationship between man and ocean.

### Modules at a Glance

#### AN INTRODUCTION TO OCEANOGRAPHY (GEO252)

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Nature of Oceanography	15
2	Bottom Relief and Ocean Water	15
3	Movements of Ocean Water	15
4	Man and Ocean	15

**S.Y.B.A. GEOGRAPHY (Major)**  
**AN INTRODUCTION TO OCEANOGRAPHY**  
 SEMESTER: IV COURSE CODE: GEO252, Credits: 04

Units	Name of the sub Topics	Na of Lectures
<b>Unit- I Nature of Oceanography</b>		15
1.1	Oceanography : Meaning, Definition, Nature and Scope	
1.2	Origin and Development of Oceanography	
1.3	Branches of Oceanography: Physical Chemical and Biological	
1.4	Introduction to Major Oceans	
<b>Unit – II Relief Bottom and Ocean Water</b>		15
2.1	Ocean Floor and its Characteristics	
2.2	Composition of Ocean Water	
2.3	Factors Affecting Ocean Water Temperature and Salinity	
2.4	Distribution of Ocean Temperature and Salinity	
<b>Unit – III Movements of Ocean Water</b>		15
3.1	Waves- Formation and Types	
3.2	Concept and Types of Tides	
3.3	Tsunami and its Effect	
3.4	Major Ocean Currents – types and their effects	
<b>Unit – IV Man and Ocean</b>		15
4.1	El- Niño and La-Niña phenomenon	
4.2	Coral Reefs and their Importance	
4.3	Marine Ecosystem and Marine Pollution	
4.4	Oceans and Global Climate Change	

**REFERENCES:**

1. Bhatt, J.J. (1978): Exploring the Planet Ocean, D.Von Nostrand Co. New York.
2. Birla Economic Research Foundation, economic Research Division (1992): The Oceans, Allied Publishers Ltd. New Delhi.
3. Chandra, S. and 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) Encyclopaedia of Oceanography, Reinhold, 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.

**Draft Syllabus under Autonomy**  
With effect from the Academic Year 2024-25  
**GEOGRAPHY OF TOURISM**  
**Minor Subject**

**Course Outcome:** a student should develop the ability to:

- Understand the history of tourism
- Understand the types of tourism
- Study of new trends of tourism
- Get knowledge of tourism law

**Modules at a Glance**  
**GEOGRAPHY OF TOURISM**  
**[GEO253]**

<b>Unit No</b>	<b>Unit</b>	<b>Unit Wise Weightage Of Marks (In %)</b>
<b>1</b>	Introduction to Tourism Geography	<b>15</b>
<b>2</b>	Types & Impact of Tourism	<b>15</b>
<b>3</b>	Infrastructure of Tourism and Ancillary Services	<b>15</b>
<b>4</b>	Planning of Tourism and Organization	<b>15</b>

**T.Y.B.A. GEOGRAPHY**  
**GEOGRAPHY OF TOURISM**  
**Minor Subject**  
**SEMESTER- IV; COURSE CODE: GEO253; COURSE CREDIT: 04**

<b>Unit-I -Introduction to Tourism Geography</b>		<b>TOTAL LECTURES</b>
1.1	Definition , Nature and Scope	<b>12</b>
1.2	Trends of Tourism Development in World	
1.3	Factors of Tourism Development - Geographical components	
1.4	Factors of Tourism Development - Socio-cultural and political	
<b>Unit-II Types &amp; Impact of Tourism</b>		<b>12</b>
2.1	Types of Tourism,	
2.2	New Trends in Tourism,	
2.3	Positive impact of Tourism on Environment: Socio-culture and Economy	
2.4	Negative Impact of Tourism on Environment: Socio-culture and Economy	
<b>Unit-III - Infrastructure of Tourism and Ancillary Services</b>		<b>12</b>
3.1	Accommodation	
3.2	Transportation	
3.3	Travel Agencies and Tour Guide	
3.4	Documentation and Ticketing	
<b>Unit-IV - Planning of Tourism and Organization</b>		<b>12</b>
4.1	Need of Planning and Elements of Planning	
4.2	Levels of Planning	
4.3	Tourism Organizations - IATA, PATA, I.T.D.C. and M.T.D.C	
4.4	Incredible India campaign	

**REFERENCES:**

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,

**Draft Syllabus under Autonomy**  
With effect from the Academic Year 2024-25  
**OE**

**Disaster Management-II**

**COURSE OUTCOME:**

CO1:

CO2:

CO3:

CO4:

**Modules at a Glance**  
**Disaster Management-II (GEO254)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Mitigation and Management techniques of Disaster	15
2	Training, awareness program and project on disaster management	15

S.Y.B.A. GEOGRAPHY (OC)		
<b>Disaster Management -II</b>		
SEMESTER: IV COURSE CODE: GEO254, Credits: 02		
Units	Name of the sub Topics	No of Lectures
<b>Unit – I Mitigation and Management Techniques of Disaster</b>		
1.1	Basic Principles of Disasters Management, Disaster Management Cycle, Disaster Management Policy,	15
1.2	National and State Bodies for Disaster Management,	
1.3	Early Warning Systems, Building Design and Construction in Highly Seismic Zones, Retrofitting of Buildings.	
<b>Unit – II Study of Important Disasters</b>		
2.1	Training and Drills for Disaster Preparedness, Awareness generation program,	15
2.2	Usages of GIS and Remote sensing techniques in disaster management,	
2.3	Mini project on disaster risk assessment and preparedness for disasters with reference to disasters in Maharashtra	

**Text Books:**

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.

**Draft Syllabus under Autonomy**  
With effect from the Academic Year 2024-25

**SEC**

**DRONE SURVEYING**

**COURSE OUTCOME:**

- CO1: Explain the fundamentals of Drone surveying.
- CO2: Describe the Methods of Surveying with Drone

**Modules at a Glance**  
**DRONE SURVEYING (GEO255)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Introduction on Drones	15
2	Surveying with drone	15

**S.Y.B.A. GEOGRAPHY (SEC)**  
**DRONE SURVEYING**  
 SEMESTER: IV COURSE CODE: GEO255, Credits: 02

Units	Name of the Sub Topics	No of Lectures
<b>Unit – I INTRODUCTION ON DRONES</b>		
1.1	Introduction to Drones, History of Drone/UAS/UAVs, payload, battery life, Specs for good results, Regulations of DGCA and Drone license	15
1.2	Pre and Post Flight planning- Flight execution and photography	
1.3	Data collection- Image Format, GSD, Scale and Resolution	
<b>Unit – II SURVEYING WITH DRONE</b>		
2.1	Consideration for hardware selections, comparison on surveying drone and its accuracy	15
2.2	Techniques of controlling errors, Consideration of GCP in vertical and horizontal accuracies	
2.3	Planning and estimation of drone surveying jobs, Autonomous flight vs. manual and hybrid flight profiles.	

**REFERENCES:**

1. David P Paine, “Aerial Photography and Image Interpretation”, 2nd Edition, published by Wiley, Higher Education, 2006.
2. Drones and Support for the Use of Force by James Igoe Walsh.



## **Draft Syllabus under Autonomy**

**AEC**

### **ENVIRONMENTAL STUDIES-II**

**Course Outcome:**

CO1: Understand the solid waste management and role of society in solid waste management.

CO2: To gain the knowledge of environmental problems associated with Industrial development.

CO3: Understand the environmental movements and environmental management in India.

### **Modules at a Glance**

#### **ENVIRONMENTAL STUDIES-II (GEO256)**

<b>Unit No.</b>	<b>Unit</b>	<b>Unit Wise Weightage of Marks (in %)</b>
1	Solid Waste Management	15
2	Environmental Movements and Management	15

**S.Y.B.A. GEOGRAPHY**  
**ENVIRONMENTAL STUDIES-II**  
 SEMESTER: IV COURSE CODE: GEO256, Credits: 02

Units	Name of the Sub Topics	No of Lectures
<b>Unit – I Solid Waste Management</b>		
1.1	Meaning, classification of waste, Sources of waste	12
1.2	Problems of non-degradable waste, solid waste, e-waste, plastic waste	
1.3	Role of citizens in waste management in urban and rural areas	
1.4	Solid waste management in Navi Mumbai	
<b>Unit – II Environmental Movements and Management</b>		
2.1	Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats movement	24
2.2	Constitutional and legal provisions in India	
2.3	Concept of Carbon Bank and Carbon Credit , ecological footprint	

**REFERENCES:**

1. Erach Bharucha, 2010, Textbook of Environmental Studies, University Grant Commission,.
2. P.G. Shinde, et.al, 2018, Environmental Studies, Sheth Publisher Pvt. Ltd.
3. Savindra Singh, 2016, Environmental Geography, Pravalika Publication, Allahabad.
4. Vibbha Kumar, et.al, 2018, Environmental Studies, Himalaya Publisher Pvt. Ltd.
5. Baishakhi Dutta, et.al, 2018, Environmental Studies, Vipul's Publisher Pvt. Ltd.
6. Amrit & Chakraborti, et.al, 2018, Environmental Studies, Manan Publisher Pvt. Ltd

Rayat Shikshan Sanstha's

## Karmaveer Bhaurao Patil College, Vashi

(Autonomous College)

SYBA Geography Paper- II and III

Evaluation Pattern

### SCHEME OF EXAMINATION:

The performance of the learners shall be evaluated into two parts viz continuous Internal Evaluation and Semester End examination. In both semester internal assessment with 40% marks and semester End Examinations with 60% marks. The allocation of marks for the Continuous Internal Assessment and Semester End Examinations are as shown below:-

### **CONTINUOUS INTERNAL ASSESSMENT- 40 MARKS**

Practical Component will ask for Internal Examination and it will be conducted separately

Evaluation type	Marks
Internal Evaluation	40
a. Practical + Journal	20
b. Class Room Presentation	10
c. Field Visit and report writing Viva Assignments PPT presentation Quiz competition Online courses Knowledge sharing Innovative Ideas Active participation	10

**SEMESTER END EXAMINATION- 60 MARKS**

- Duration – 2 Hours for each paper.
- There shall be eight questions each question and each questions carry 15 marks.
- All questions shall be compulsory with internal choice within the questions.
- Questions shall be subdivided into sub-questions

<b>Questions</b>	<b>Sub-questions</b>	<b>Questions</b>	<b>Marks</b>
1	a) OR b)	Based on Unit - I	15
2	a) OR b)	Based on Unit – II	15
3	a) OR b)	Based on Unit – III	15
4	a) OR b)	Based on Unit – IV	15