KTSPMS

Hutatma Rajguru Mahavidyalaya, Rajgurunagar

Tal – Khed, Dist – Pune Pin.- 410505

Department of Geography

Teaching Plan NEP 2020 (2024 Pattern)

Academic year - 2025-2026 **Class – FYBA**
Semester – I **Subject Code – GEO-101-T**
Div- A **Credits - 02** **Subject – Theory (Main Subject)**
Name of Subject – Introduction to Physical Geography NEP 2020 (2024 Pattern)
Name of Subject Teacher - Prof. Muluk M. L.

Month	Teaching Hours	Topic	Sub Topics
July 2025	08	Introduction to Physical Geography	i. Introduction, definition and branches of Geography ii. Definition and Branches of Physical Geography iii. Nature, Scope and importance of Physical Geography
August 2025	06	Lithosphere	i. Interior of the Earth - Structure and Composition ii. Wegener's Continental Drift Theory
Sept. 2025	08	Atmosphere	i. Concept of weather and climate. ii. Composition and structure of the atmosphere iii. Factors affecting horizontal distribution of the temperature
Oct. 2025	06	Hydrosphere	i. General structure of ocean floor ii. Movements of ocean water a. Tides- meaning, causes and types

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Department of Geography

Teaching Plan NEP 2020 (2024 Pattern)

Academic year - 2025-2026 **Class – FYBA**
Semester – I **Subject Code – GEO-102-P**
Div- A (8 Batches) **Credits - 02** **Subject – Practical (Main Subject)**
Name of Subject – Practicals in Geography NEP 2020 (2024 Pattern)
Name of Subject Teacher - Prof. Dr. Muluk D. D.

Month	Teaching Hours	Topic	Sub Topics
June/July 2026	20	Qualitative Methods of Relief Representation	Methods of Relief Representation Qualitative Methods a. Hachures b. Hill shading c. Color shading or tinting
August/Sept 2026	20	Quantitative Methods of Relief Representation	Methods of Relief Representation Quantitative Methods a. Spot Height b. Bench Mark c. Triangulation Method d. Contours e. Form lines
Sept/Oct. 2026	20	Representation of slope and landforms by contours	Representation of slope by contours a. Gentle and steep slope b. Even and uneven slope c. Concave and convex slope Representation of landforms by contours a. Conical hill b. Cliff c. V shaped valley d. Ridge e. Plateau f. Pass

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Teaching Plan NEP 2020 (2024 Pattern)

Academic year - 2025-2026 **Class – FYBA**
Semester – I **Subject Code – OE-101-GEO**
Div- FYBSC A Group **Credits - 02** **Subject – Theory(Open Elective)**
Name of Subject – Geography of Tourism NEP 2020 (2024 Pattern)
Name of Subject Teacher - Prof. Muluk M. L.

Months	Teaching Hours	Topic	Sub Topics
July 2025	10	Introduction to Tourism Geography	i. Definition, Nature and Scope of Tourism Geography ii. Concept of Tourist and Tourism iii. Importance of Tourism in Geography
August/Sept 2025	10	Determinants of Tourism Development	i. Physical a. Relief b. Climate c. Forest d. Water ii. Socio-Cultural a. Religious b. Historical c. Cultural iii. Political a. Policies iv. Other a. Accessibility b. Safety of Tourists
Sept/Oct. 2025	10	Classification and recent types of Tourism	i. Classification of Tourism based on a. Nationality b. Travel Period c. Purpose of Tourism ii. Recent types of Tourism a. Agro Tourism b. Ecotourism c. Wildlife Tourism d. Health Tourism e. Sports Tourism

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Department of Geography

Teaching Plan 2025-2026

(SYBA NEP 2020) 2024 Pattern

Name of the Programme	**B.A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**Major Core**
Course Code	**GEO-201- MJ**
Course Title	**Fundamentals of Geomorphology**
Type of course	**Theory**
Total Credits	**04**
Workload	**(15 hours / credit) 4 credits x 15 hours = 60 hours in semester**
Name of Teacher	**Prof. Dr. Muluk D. D.**

Months	Teaching Hours	Topic Name	Sub Topic
June/July 2025	10	Introduction of Geomorphology	1. Definition of geomorphology 2. Nature and scope of geomorphology 3. Branches of geomorphology 4. Significance of geomorphology
July/August 2025	16	Tectonics and Crustal Movements	1. Origin of continents and oceans i. Theory of plate tectonics ii. Theory of sea floor spreading 2. Classification of crustal movements i. Slow movements- folding and faulting and its types ii. Rapid movements - volcanism and earthquakes: causes, consequences
August 2025	10	Weathering	1. Definition of Weathering 2. Types of weathering (i) Physical (ii) Chemical (iii) Biological
August/September 2025	12	Agents of Erosion and Deposition	1. Erosional and depositional landforms created by the following geomorphic agents River (ii) Sea wave
Sept./Oct 2025	12	Applied Geomorphology	1. Definition and significance of applied geomorphology 2. Concept of Geomorphosites 3. Human activity and geomorphology (i) Settlement (ii) Mining (iii) Urbanization (iv) Land Degradation

Name of the Programme	**B.A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**Major Core**
Course Code	**GEO-202-MJP**
Course Title	**Practicals in Fundamentals of Geomorphology**
Type of course	**Practical**
Total Credits	**02**
Workload	**(30 hours / credit) 2 credits x 30 hours = 60 hours in semester**
Name of Teacher	**Dr. Markad. D. M.**

Months	Teaching Hours	Topic Name	Sub Topic
June/July 2025	15	Introduction to Geomorphological Tools and Techniques	1. Introduction to SOI topographic sheets and understanding geomorphological features based on contour patterns/relief 2. Identifying fluvial features such as „V" shaped valley, gorge, waterfall, potholes, meanders, deltas, floodplains etc. using contour patterns or Google Earth programming 3. Identifying coastal features: beaches, sea cliff, sea island etc. using contour patterns or Google Earth
July/August 2025	15	Slope and Drainage Basin Analysis	1. Measuring slope angles 2. Identifying drainage patterns and their geomorphological significance 3. Profile- Drawing and interpretation of cross- section of river 4. Stream order and number by Strahlers method
August/Sept./ Oct. 2025	30	Field Mapping Techniques (Field excursion	1. Techniques for mapping landforms in the field using SOI toposheet or GPS 2. Field survey for locating bench mark/spot height / triangulation mark with reference to SOI toposheet 3. Identifying landforms in the field (at least any two depositional c 4. Report writing on the basis of **(Conduct a field visit or field excursion lasting one or more days)**

Name of the Programme	B.A. (Geography)
Class	S.Y.B.A.
Semester	III
Name of Vertical Group	VSC
Course Code	**GEO-221- VSC**
Course Title	**Introduction to Cartography**
Type of course	Theory
Total Credits	02
Workload	(15 hours / credit) 2 credits x 15 hours = 30 hours
Name of Teacher	Prof. Muluk M. L.

Months	**Teaching Hours**	**Topic Name**	**Sub Topic**
June/July 2025	12	Introduction to Cartography	1. Definition of cartography 2. History of cartographic techniques 3. Essence of cartography i. Atlas ii. Globe iii. Map 4. Branches of cartography 5. Importance and applications of cartographic techniques
July/August 2025	08	Map and Map Scale	1. Map i. Definition ii. Aspects iii. Types 2. Map Scale i. Definition ii. Types of map scale: verbal, representative fraction and graphical
August/Sept./ Oct. 2025	10	Map Projections	1. Meaning 2. Classification of map projection on the basis of use and construction 3. Selection of map projection 4. Concept and significance of UTM Projection

Name of the Programme	B.A.(Geography)
Class	S.Y.B.A.
Semester	III
Name of Vertical Group	VSC
Course Code	**GEO -222 -VSC**
Course Title	**Introduction to Surveying**
Type of course	Theory
Total Credits	02
Workload	(15 hours / credit) 2 credits x 15 hours = 30 hours in semester
Name of Teacher	Prof. Muluk M. L.

Months	**Teaching Hours**	**Topic Name**	**Sub Topic**
June/July 2025	08	Land Measurement	1. Definition of land measurement 2. Development of land measurement 3. Types of land measurement a. Linear methods, b. Areal methods 4. Importance of land measurement
July/August 2025	08	Surveying	1. Definition of surveying 2. Types of surveys: Plane surveying and geodetic surveying 3. Classification of survey a. On the basis of area b. On the basis of objectives c. On the basis of survey instruments (conventional and modern) 4. Importance of Surveying
Sept./ Oct. 2025	14	Introduction to Survey Instruments	1. Structure, function, merits and demerits of following survey instruments a. Plane table b. Dumpy c. GPS d. Total station 2. Applications of land measurement and surveying in Geography

Name of the Programme	**B. A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**FP / OJT / CEP**
Course Code	**GEO -231-FP**
Course Title	**Field Visit and Report Writing**
Type of course	**Field Project**
Total Credits	**02**
Workload	**(30 hours / credit) 2 credits x 30 hours = 60 hours in sem.**
Name of Teacher	**Prof. Dr. Dilip Muluk**

- A field visit to a geographical area should be conducted in pre-approved locations that provide opportunities to observe and analyze geographical phenomena, including natural landscapes, urban environments, or socio-economic settings.
- Faculty members will provide guidance and supervision throughout the field visit. Students must adhere to their instructions.
- Students are required to actively participate in data collection, group discussions, and assigned tasks while working effectively with peers and supervisors.
- Students must submit a field report, highlighting their observations about the geographical phenomena studied.
- The field report should follow the prescribed format, including Title Page, Table of Contents, Introduction, Objectives, significance of the study, Study Area, Methodology, Techniques and tools used for data collection, Observations, Description, Major findings and Summary.
- Maps, Grphas, Digrams and Geotagged photographs should be included in the final report.
- The final field report should be submitted in both printed and digital formats to the department.

Name of the Programme	**B.A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**Minor**
Course Code	**GEO -241-MN**
Course Title	**Physical Geography of India**
Type of course	**Theory**
Total Credits	**02**
Workload	**(15 hours / credit) 2 credits x 15 hours = 30 hours in semester**
Name of Teacher	**Dr. Markad D. M.**

Months	Teaching Hours	Topic Name	Sub Topic
June/July 2025	10	Location and Physical Setting	1. Location, relation with neighboring countries 2. Physical divisions a. The Northern Mountains b. The North Indian Plains c. The Peninsular Plateau d. The Coastal Lowlands and Islands
July/August 2025	12	Drainage System and Climate	1. Drainage system a. East flowing rivers- Ganga, Bramhputra, Godawari, Krushna and Kaveri b. West flowing rivers- Indus, Narmda, Tapi and Vashishti 2. Major Seasons and weather associated with them a. Summer b. Monsoon c. Winter
Sept./ Oct. 2025	8	Soil and Forest	1. Soil types and distribution 2. Soil conservation 3. Forest types and distribution 4. Forest Conservation

Name of the Programme	**B.A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**Minor**
Course Code	**GEO -242 -MNP**
Course Title	**Practicals in Map Reading**
Type of course	**Practical**
Total Credits	**02**
Workload	**(30 hours / credit) 2 credits x 30 hours = 60 hours in semester**
Name of Teacher	**Dr. Markad D. M.**

Months	Teaching Hours	Topic Name	Sub Topic
June 2025	08	Introduction to Map	1. Map: definition and elements 2. Classification of map: based on scale and purpose 3. Use of map
July/August 2025	16	Map Scale	1. Definition 2. Types of scale: verbal, numerical and graphical 3. Conversion of scale (British and Metric system) a. Verbal scale to representative fraction b. Representative fraction into verbal scale 4. Construction of simple graphical scale (At least two examples from each)
August/Sept. 2025	18	Introduction to Map Projection	1. Definition and types of map projection 2. Basic concepts of projection: latitude, longitude, parallel of latitude, meridian of longitude, prime meridian, equator, direction 3. Calculation of time basis on meridian and GMT (Calculation of minimum two examples)
Sept/Oct 2025	18	Interpretation of Maps and Excursion	1. Introduction to Survey of India toposheets - marginal information, conventional signs and symbols and colours in S.O.I. toposheets 2. Interpretation of S.O.I. toposheets (At least one map of mountain, plateau, plain and costal region) 3. One-day field excursion for orientation of maps and toposheets, reading of maps in the field.

Name of the Programme	**B.A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**Minor**
Course Code	**OE -201-GEO**
Course Title	**Political Geography**
Type of course	**Theory**
Total Credits	**02**
Workload	**(15 hours / credit) 2 credits x 15 hours = 30 hours in semester**
Name of Teacher	**Prof. M. L. Muluk**

Months	Teaching Hours	Topic Name	Sub Topic
June/July 2025	08	Introduction to Political Geography	1. Definition, nature and scope 2. Historical development 3. Concept of geopolitics
July/August 2025	12	Concepts in Political Geography	1. Nation, state and nation state 2. Nation building 3. Frontiers and boundaries 4. Maritime boundaries
Sept./ Oct. 2025	10	Current Political Issues	1. Political Issues i. India - Pakistan ii. Russia-Ukraine iii. Problems in Bangladesh 2. International river water disputes of India 3. Geopolitical importance of Indian ocean

Name of the Programme	**B.A. (Geography)**
Class	**S.Y.B.A.**
Semester	**III**
Name of Vertical Group	**IKS**
Course Code	**GEO- 201- IKS**
Course Title	**Indian Geographical Knowledge**
Type of course	**Theory**
Total Credits	**02**
Workload	**(15 hours / credit) 2 credits x 15 hours = 30 hours in semester**
Name of teacher	**Dr. D. M. Markad**

Months	Teaching Hours	Topic Name	Sub Topic
June/July 2025	08	Introduction to Indian Knowledge System (IKS)	1. Concept of IKS 2. Nature and Scope of IKS 3. IKS based approaches on knowledge paradigms 4. IKS from ancient to medieval period.
July/August 2025	12	Indian Geographical knowledge	1. Geographical Literature - Vaidikas, Puranas, the Ramayana, the Mahabharata, the works of Buddhists, Jains and Gandhian philosophy. 2. Geographical concepts in ancient India – eclipses, earth, size of earth, latitude and longitude, atmosphere, weather and climate, division of celestial sphere (Panchang), planetary computation 3. Regional geography of ancient India: continents, Bharatvarsa, mountains and rivers 4. Gandhian ideas of regional development, concept of gramswaraj as microregional approach.
August/Sept./ Oct. 2025	10	Practices of Indian Knowledge in Geography	1. Ancient routes of trade (Inland and Overseas) 2. Observatories in historical India – Rajasthan, Delhi, Uttar Pradesh and Madhya Pradesh 3. Indian geographical knowledge and cultural practices in India. (agriculture, festivals, architecture), 4. Gandhian approach towards agriculture, architecture, resource management and environment. 5. Gandhian philosophy for climate adaptation.

Teaching Plan

2019 Pattern (TYBA)

Academic year - 2025-2026 **Class – TYBA**
Semester – V **Subject Code - 35205**
Div. – A and B **Subject – Theory**
Name of Subject – Gg: 310(A) CC 1E Geography of Tourism- I (G3)
Name of Subject Teacher - Prof. M. L. Muluk

Month	Teaching Hours	Topic	Sub Topics
July/August 2025	12	Introduction	a) Definition and Nature i. Definition of Tourists and Tourism ii.Nature of Tourism iii. Importance of Tourism b) Scope and Extent i. Tourism and Travel as basic needs of mankind. ii. Tourism and Development. iii. Tourism as product c) Role of Geography in Tourism
Sept. 2025	12	Determinants of Tourism Development	a) Physical i. Relief, ii. Climate, iii. Forest b) Socio-Cultural i. Religious, ii. Historical iii. Sports, c) Political --i) Policies ii) Safety of Tourists iii) Accessibility
Sept./ Oct 2025	12	Concept and Classification of Tourism	a) Classification of tourism based on i. Nationality, ii. Travel Time iii. Purpose b) Concept of Tourism - I i. Agro-Tourism, ii. Eco- Tourism iii.Wildlife Tourism c) Concept of Tourism - II i. Health/medical Tourism ii Sports Tourism
Oct. 2025	12	Basic Infrastructure in Tourism	a) Mode of Transportation i) Road ii) Railiii) Water iv)Air b) Communication i. Role of Guide in tourism development ii. Internet/Telephone/Mobile/TV iii. Electronic and Printing Media c) Travel and Tourism Agencies

Teaching Plan

2019 Pattern (TYBA)

Academic year - 2025-2026 **Class – TYBA**
Semester – V **Subject Code - 35201**
Div. – A **Subject – Theory**
Name of Subject – Gg: 320(A) DSE 1C Geography of India –I (S3)
Name of Subject Teacher - Prof. Dr. D. M. Markad

Month	Teaching Hours	Topic	Sub Topics
July/ August . 2025	12	Introduction	a) Location and Extent
			b) Historical Background
			c) International boundaries of India and related issues
			d) States and Union territories
August/ Sept. 2025	12	Physiography	a) The Northern Mountains
			b) The North Indian Plains
			c) The Peninsular Plateau
			d) The Costal lowlands and Islands
Sept./ Oct 2025	12	Drainage	a) Himalayan Rivers: The Indus , The Ganga, The Brahmaputra
			b) East Flowing Rivers- Mahanadi, Godavari, Krishna,Kaveri
			c) Major West Flowing Rivers- Narmada, Tapi, Mahi
			d) Minor West Flowing Rivers originating in Western Ghat
Oct. 2025	12	Climate Soils and Natural Vegetation	a) Various Seasons and Weather Associated with them
			b) Types of Soils and its Distribution
			c) Soil Degradation and Conservation
			d) Types of Natural Vegetation and its Distribution

Teaching Plan

2019 Pattern (TYBA)

Academic year - 2025-2026 **Class – TYBA**
Semester – V **Subject Code – 35203**
Batch – A and B **Subject – Practical**
Name of Subject – Gg: 301(A) DSE 2C Practical Geography – I (Techniques of Spatial Analysis) (S4)
Name of Subject Teacher - Prof. Dr. Dilip Muluk And Prof. M. L. Muluk

Month	Number of Practicals	Topic	Sub Topics
July/ August 2025	15	Introduction of S.O.I. Toposheet & Relief Representation	a. Introduction of Survey of India Toposheets: Marginal Information, Conventional signs and symbols and Colours in S.O.I. Toposheets. b. Types of toposheets / Indexing of toposheets c. Methods of Relief Representation i) Qualitative: Hachures, Hill shading, Layer Tint. ii) Quantitative: Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height
Sept/Oct2025	15	Interpretation of S.O.I. Toposheets and Data generation	**a.** Reading of SOI toposheets from plain, plateau, Mountainous region b. One day field Excursion for orientation of toposheets, observation and Identification of Geographical Features and Preparation of a Brief Report

Teaching Plan

2019 Pattern (TYBA)

Academic year - 2025-2026 **Class – TYBA**
Semester – V **Subject Code – SEC 2C**
Batch – A and B **Subject – Theory**
Name of Subject – SEC 2C Research Methodology – I
Name of Subject Teacher - Prof. Dr. Dilip Muluk And Prof. M. L. Muluk

Month	Teaching Hours	Topic	Sub Topics
July/ August 2025	10	Introduction to Research Methodology	i. Meaning and objectives of research ii. Characteristics of Research iii. Types of Research iv. Various steps in Research Process
August/ Sept. 2025	10	Research Design	i. Introduction of Research Design ii. Purpose of Research Design iii. Characteristics of Good Research Design
Sept/Oct. 2025	10	Research Problem	i. Definitions of the Research Problem ii. Identification of a Research Problem iii. Technique involved in defining a problem

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