KTSP Mandals

Hutatma Rajguru Mahavidyalaya, Rajgurunagar

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Department of Geography

Programme Outcomes and Course Outcomes

Academic Year 2025-2026

(FY/SYBA 2024 Pattern (NEP 2020) and TYBA – 2019 Pattern)

B. A. Geography Programme Outcomes

After successfully completing B.A. Geography Programme students will be able to:

PO1: Apply qualitative and quantitative research techniques to gather and analyse data on social, cultural, and ecological problems.

PO2: Apply clear written and oral communication skills to communicate results of research.

PO3: Demonstrate connections between everyday life at the local scale and the larger economic, social, and/or environmental forces that network them into a global community.

PO4: Evaluate cultural, social, and environmental processes with a particular focus on space and place, critical theory, practical application, analysis and/or social justice.

PO5: Think in spatial terms to explain what has occurred in the past as well as using geographic principles to understand the present and plan for the future.

PO6: Present completed researches, including an explanation of methodology and scholarly discussion, both orally and in written form and, wherever possible, utilize cartographic tools and other visual formats.

PO7: Demonstrate general understanding of how the physical environment, human societies, and local and global economic systems are integral to the principles of sustainable development.

PO8: Demonstrate acquisition of Weather chart/map, map aerial photograph and Image reading skill.

PO9: Apply Remote sensing concepts, techniques and their application.

PO10: Serve as a Geographer and work as a surveyor in various Govt. Departments.

PO11: Work as a teacher in schools and high schools.

PO12: Serve as conservator in forest, Soil, Agri, Departments.

PO13: Work in disaster and water resources management.

PO14: Serve in forest department as forest conservator.

PO15: Serve in cartographer in map making divisions of Government and work in NGOs.

PO16: Can Prepare for Competitive exams.

Programme Outcomes of B. A. Geography

After completing B. A. Geography programme will have

PSO1: Demonstrate and understanding of principles and theories of Geography. This include Geomorphology, Economic Geography, Human Geography, Agriculture Geography.

PSO2: Apply Statistical Techniques of Spatial Analysis.

PSO3: Demonstrate ability to apply knowledge learned in classroom to set and perform simple laboratory experiments in geography.

PSO4:- The student develops theoretical, applied and computational skills.

PSO4:- Be able to use and analyze maps.

PSO5 :- Students will understand global and regional patterns of cultural, political, economic and agricultural institutions.

PSO6:- Students will have a general understanding of the various theoretical and methodological approaches in both physical and human geography and be able to develop research questions and critically analyze both qualitative and quantitative data to answer those questions.

PSO7:- To understand the scope and content of commercial geography in relation to the spatial distribution of resources.

PSO8: Develop research questions and critically analyse both qualitative and quantitative data to answer those questions using various theoretical and methodological approaches in both physical and human geographies.

PSO9: Develop a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations including settlement and economic activities and networks, and human impacts on the physical environment.

PSO10: Read, interpret, and generate maps and other geographic representations as well as extract, analyse, and present information from a spatial perspective

Course outcomes – Geography syllabus

Class	Sem.	Paper	Subject	Course Outcome
FYBA	**I**	**Major Subject Theory Paper GEO-101-T**	**Geography**	**CO1.** To introduce the students to the basic and latest concepts in Physical geography. **CO2.** To acquaint the students with

		Introduction to Physical Geography		the utility and application of Physical geography in different regions and environment. **CO3.** To make the students aware about Earth system (Lithosphere, Atmosphere, Biosphere and Hydrosphere) **CO4.** Students will understand the concept of place and how it is connected to people's sense of belonging to the physical environment, landscape and culture. **CO5.** Students will be exposed to the nature of physical systems such as geomorphologic processes and natural hazards. **CO6.** Students will be able to read and interpret information on different types of physical features. **CO7.** The geographical maturity of students in their current and future courses shall develop. **CO8.** Describe what Geography and Physical Geography are. **CO9.** Understand the physical principles and processes governing the circulation and characteristics of the atmosphere **CO10.** Understand the principles of geomorphology and the processes that shape the landscape. **CO11.** Understand the directional and location systems employed on the surface of the Earth **CO12.** To understand the dynamics of the atmosphere, the ocean and the overall climatologically system.
FYBA	**I**	**Major Subject Practical Paper GEO-101-T Practical's in**	**Geography**	**CO1**. Students will be able to define Geography and its Branches. Nature and Scope. **CO2**. Students will be able to describe the Earth's Interior: Structure and Composition.

		Physical Geography		**CO3**. Students will be able to explain and Critically Examine the Wegener's Continental Drift Theory. **CO4**. Students will Differentiate Between Weather and Climate. **CO5**. Students will explain the layers and Understand the Composition and Structure of the Atmosphere. **CO6**. Students will identify and analyse the Factors Affecting the Horizontal Distribution of Temperature. **CO7**. Students will Describe the General Structure of the Ocean Floor. **CO8**. Students will understand the Movements of Ocean Water. **CO9**. Students will define Tides: Meaning, Causes, and Types.
FYBA	**I**	**Major Subject Theory Paper GEO-151-T Introduction to Human Geography**	**Geography**	**CO1.** Students will develop a concrete understanding of the concepts of "space," "place" and "region" and their importance in explaining world affairs. **CO2.** Students will understand general demographic principles and their patterns at regional and global scales. **CO3.** Students will be able to locate on a map major physical features, cultural regions, and individual states and urban centers. **CO4.** Students will acquire an understanding of and appreciation for the relationship between geography and culture. **CO5.** Students will have a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations. **CO6.** Students will be able to think in spatial terms to explain what has occurred in the past as well as using geographic principles to understand the present and plan for the future. **CO7.** Students can Describes what

				geography and human geography are and also understand population dynamics and migration pattern. **CO8.** Students will understand the settlement pattern of Rural and Urban settlements. **CO12.** Students can understand the urbanization process, theories of urbanization respective to India and Maharashtra. **CO9.** Students will able to understand types of agriculture. **CO10.** Students will be analyzing the factors affecting on agricultural activity. **CO11.** Students will be able to understand the problems of farmers and Indian Agriculture
FYBA	**I**	**Major Subject Practical Paper GEO-151-T Practical's in Human Geography**	**Geography**	**CO1.** Students will understand the Understand Qualitative Relief Representation Techniques. **CO2**. Students will be able to develop Skills in Hill Shading for 3D Visualization. **CO3**. Students will be proficient in using and utilize Color Shading to Illustrate Elevation Gradients. **CO4**. Students will learn and apply Quantitative Relief Representation Methods. **CO5**. Students will develop skills in interpreting contour lines and applying them to represent the elevation and shape of terrain features. **CO6**. Students will be able to analyze and represent slopes using contours, demonstrating an understanding of terrain variations. **CO7**. Students will learn to represent key landforms through the accurate placement and interpretation of contour lines.

				CO8. Students will be capable of interpreting complex landforms and slopes by analyzing contour patterns and their relationships to the terrain.
FYBA	**I**	**Open Elective OE-101-GEO Geography of Tourism**	**Geography**	**CO1.** To understand the diverse nature and broad scope of Tourism Geography. **CO2.** To provide students with a broad understanding of recent and emerging types of tourism. **CO3.** To gain insights into specialized forms of tourism and understand their characteristics and sustainability considerations associated with them. **CO4.** To explore the socio-cultural determinants of tourism. **CO5.** To classify and analyse diverse tourism trends, enabling the students the dynamic nature of the tourism industry.
SYBA	**III**	Major Core **GEO-201- MJ Fundamentals of Geomorphology**	**Geography**	**CO1.** Define geomorphology and explain its scope, including the relationship with other Earth sciences. **CO2.** Identify the main branches of geomorphology and their applications. **CO3**. Evaluate the significance of geomorphology in understanding landscape formation, **CO4**. Environmental processes and human activities. **CO5**. Explain the origin of continents and oceans using the theories of plate tectonics and sea floor spreading. **CO6**. Classify slow and rapid crustal movements and their effects on the Earth's surface. **CO7**. Apply knowledge of tectonic processes to understand landform development, including mountain ranges, valleys, and faults. **CO8**. Identify and describe the major agents of erosion and deposition, including rivers, sea waves, and wind. **CO9**. Relate the processes of erosion and deposition to real-world

				geomorphological features and landscapes. **CO10**. Explain the concept of applied geomorphology and its relevance to real-world **CO11**. Apply geomorphological knowledge to environmental hazard assessment.
SYBA	**III**	Major Core **GEO-202-MJP Practicals in Fundamentals of Geomorphology**	**Geography**	**CO1**: Demonstrate proficiency in interpreting SOI topographic sheets to identify geomorphological features such as relief and contour patterns **CO2**: Recognize and explain the formation and characteristics of fluvial/coastal landforms sing topographic maps or Google Earth. **CO3**: Measure and interpret slope angles to understand their implications for geomorphic processes and landscape development **CO4**: Identify and analyze drainage patterns and explain their geomorphological significance, emphasizing their role in watershed and terrain evolution **CO5**: Create and interpret cross-sectional profiles of landscapes to understand elevation changes, landform processes, and spatial relationships **CO6**: Apply Strahler‟s method to classify stream orders and assess drainage basin characteristics effectively **CO7**: Use SOI topographic maps and GPS devices to map landforms accurately during field excursions **CO8**: Conduct field surveys and Compile a detailed report summarizing field observations, including mapped data, identified landforms, and geomorphological interpretations
SYBA	**III**	VSC **GEO-221- VSC Introduction to Cartography** Theory	**Geography**	**CO1:** Understand the fundamental concepts in cartography. **CO2**: Recognize the importance and application of cartographic techniques

				in understanding map, map scale, and projection **CO3**: Appreciate the importance of skill development and education in cartographic techniques.
SYBA	**III**	VSC **GEO -222 -VSC** **Introduction to Surveying** Theory	**Geography**	**CO 1 :** Grasp fundamental surveying principles and the importance of modern techniques. **CO 2 :** Develop skills in linear, areal and vertical measurements of land. **CO 3** : Acquire a comprehensive understanding of surveying instruments. **CO 4** : Gain employment opportunities in land measurement and surveying.
SYBA	**III**	FP / OJT / CEP **GEO -231-FP** **Field Visit and Report Writing** Field Project	**Geography**	**CO1:** Gain practical exposure by conducting field visits to various geographical locations, observing and analyzing natural, urban, and socio-economic environments. **CO2:** Develop essential research skills by applying field-based data collection techniques, mapping, surveys and interviews. **CO 3**: Improve technical writing skills by preparing structured field report that includes research objectives, methodology, data analysis, and observations. **CO 4**: Cultivate industry-relevant skills through hands-on training, field exposure, and interactions with professionals in education, research, and various sectors.
SYBA	**III**	Minor **GEO -241-MN** **Physical Geography of India** Theory	**Geography**	**CO 1:** Remember the location and physical features of India. **CO 2:** Understand and explain the drainage system of India. **CO 3:** Understand the characteristics of major seasons of India **CO 4:** Understand the major soil and forest types and their distribution.
SYBA	**III**	Minor **GEO -242 -MNP** **Practicals in Map Reading** Practical	**Geography**	**CO 1:** Develop practical skill and use of map scale and projection. **CO 2:** Understand the new techniques, accuracy and skills of map making. **CO 3:** Understand and prepare

				different kinds of maps. **CO 4:** Recognize basic themes of map making.
SYBA	**III**	III Minor **OE -201-GEO Political Geography** Theory	**Geography**	**CO 1:** Understand how Geography affects politics and how politics affects Geography. **CO 2**: Understand the basic concepts in Political Geography. **CO 3**: Distinguish between nation, state, frontier and boundaries. **CO 4**: Understand major political conflicts and issues of the India and World.
SYBA	**III**	IKS **GEO- 201- IKS Indian Geographical Knowledge** Theory	**Geography**	**CO 1:** Understand the IKS. **CO 2:** Utilize the multifaceted nature of IKS and its importance in contemporary society. **CO 3:** Explain the Geographical knowledge in vedas, vedangas, Upavedas and Puranas. **CO 4:** Acquire the development of Indian Geographical knowledge and its importance in contemporary society. **CO 5:** Study Indian Geographical knowledge in detail and explore their application potential.
SYBA	**IV**	Major Core **GEO-251-MJ Introduction to Population and Settlement Geography** Theory	**Geography**	**CO 1:** Understand the core concepts and interdisciplinary nature of population and settlement Geography. **CO 2**: Analyze population growth and its determinants. **CO 3**: Evaluate population theories and policies. **CO 4**: Understand settlement distribution and growth dynamics. **CO 5**: Understand challenges of urbanization and settlement planning.
SYBA	**IV**	Major Core **GEO- 252-MJP Practicals in Population and Settlement Geography** Practical	**Geography**	**CO 1**: Analyze population growth and mortality trends using quantitative techniques. **CO 2**: Apply methods to assess population density and projection **CO 3**: Utilize quantitative models in settlement studies. **CO 4**: Integrate theory and practice through case studies.

SYBA	**IV**	VSC **GEO-271-VSC** **Practicals in Cartography** Practical	**Geography**	**CO 1**: Understand and explain the fundamental concepts of maps, including their classifications and the importance of map scales in cartography. **CO 2**: Apply various cartographic techniques to represent geographical data visually, utilising appropriate methods and tools for accurate portrayal. **CO 3**: Construct different types of maps and diagrams, demonstrating proficiency in using thematic mapping techniques and map projections. **CO 4**: Critically analyze and interpret maps, evaluating their effectiveness in conveying information and making geographical decisions.
SYBA	**IV**	VSC **GEO - 272 -VSC** **Practicals in Surveying** Practical	**Geography**	**CO 1**: Understand fundamental surveying principles and the importance of modern techniques. **CO 2**: Develop skills in linear, areal and vertical measurements of land. **CO 3**: Acquire a comprehensive understanding of surveying instruments. **CO 4**: Gain employment opportunities in land measurement and surveying.
SYBA	**IV**	FP/OJT/CEP **GEO-281-CEP** **Community Engagement Programme** Practical	**Geography**	**CO 1**: Analyze and assess the needs and challenges faced by a community through fieldwork and surveys. **CO 2**: Design comprehensive and feasible engagement programmes to address specific community issues. **CO 3**: Demonstrate the ability to execute and monitor community engagement projects effectively. **CO 4**: Evaluate the impact of community initiatives using qualitative and quantitative methods. **CO 5**: Reflect on personal learning and growth through engagement activities and teamwork. **CO 6**: Apply ethical practices and promote inclusivity and sustainability in community projects.

SYBA	**IV**	Minor **GEO-291-MN** **Physical Geography of Maharashtra** Theory	**Geography**	**CO 1**: Ability to describe and analyze the administrative structure of Maharashtra. **CO 2**: Explain the physical features of Maharashtra **CO 3**: Explore and describe the climatic diversity of Maharashtra. **CO 4**: Assess the environmental and resource management challenges facing Maharashtra.
SYBA	**IV**	Minor **GEO-292-MNP** **Practicals in Weather Observation** Practical	**Geography**	**CO 1**: Explain the mechanisms and functions of weather instruments. **CO 2**: Demonstrate the use of weather instruments. **CO 3**: Record and interpret weather data. **CO 4**:Understand and interpret the IMD weather maps. **CO 5**: Identify meteorological symbols. **CO 6**: Analyze isobaric patterns **CO 7**: Evaluate seasonal weather conditions. **CO 8**: Develop practical skills in weather forecasting **CO 9**: Engage in field observations and reporting.
SYBA	**IV**	GE/OE **OE -251- GEO** **Introduction to GPS** Practical	**Geography**	**CO 1**: Acquire knowledge about the concepts of GPS. **CO 2**: Understand the various applications of GPS. **CO 3**: Conduct field surveys using GPS instrument. **CO 4**: Gain skills to prepare maps with the help of GPS data.
SYBA	**IV**	SEC **SEC- 251- GEO** **Practical in Fundamentals of Statistics** Practical	**Geography**	**CO 1**: Classify and differentiate between different types of data, variables and sampling methods. **CO 2**: Utilize graphical techniques to present statistical data using histograms, frequency and ogive curves. **CO 3**: Apply descriptive statistics by computing and interpreting measures of central tendency and dispersion **CO 4**: Develop students‟ practical skills in statistical analysis and problem-solving.

TYBA	**V**	**Geography of Tourism - I, Subject Code: Gg.310 (A**	**Geography**	**CO1.** To understand the history of Tourism **CO2**. To introduce the students to the basic concepts in Tourism Geography. **CO3**. To understand the types of Tourism **CO4**. To gain knowledge different aspects of Tourism Geography. **CO5**. Students can understands the Determinants of Tourism Development **CO6**. To understand the importance of tourism. **CO7**. To understand the context of nature and scope of tourism geography. **CO8**. To understand the role of geography in tourism development. **CO9**. To describe the relationship between Physical elements and tourism. **CO10**. To understand the impact of social and cultural factors on tourism. **CO11**. To understand the impact of political policies on tourism. **CO12**. To aware about developing concept of tourism in modern times. **CO13**. To understand the role of transport in tourism development. **CO14**. to know about the impact of different media of communication on tourism. **CO15**. To understand the Role of various tourism organization in tourism development.
TYBA	**V**	**Geography of India - I, Subject Code: Gg.320 (A)**	**Geography**	**CO1.** To make the student aware of the magnitude of problems and Prospects at National level. **CO2.** To help the students to understand the inter relationship between the subject and the society. **CO3.** To help the students to

				understand the recent trends in regional studied **CO4.** To understand the History of India. **CO5. To** realized India's place in the world and geopolitical importance. **CO6.** Aware about International borders of India and related problems. **CO7.** To adequate the information about the states and union territories of India. **CO8.** Students can understand the geographical/Physical structure of India in depth. **CO9.** To Described the river system of India and its importance in the economic and social development of India. **CO10.** To understand the climate of India and the impact of climate on human life. **CO11.** To understand the different soil types and their distribution in India. **CO12.** To aware about the causes of soil degradation and methods of soil conservation. **CO13.** To studied the types of forests in India and their distribution in India.
TYBA	**V**	**Practical Geography – I (Techniques of Spatial Analysis) Subject Code: Gg.301 (A)**	**Geography**	**CO1.** To introduce the basic concepts and techniques of Geographical Analysis. **CO2.** To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation. **CO3.** To introduce the students with Weather Maps and acquire the Knowledge of its interpretation. **CO4.** To introduce the students with Aerial Photographs and Satellite Images and acquire

				knowledge to interpret it . **CO5.** To acquaint students with the spatial and structural characteristics of Practical Geography. **CO6.** To acquire the knowledge of different methods of relief representation in Indian topographical maps. **CO7.** Students can read the Indian Topographical maps, and the art of gathering information will be learned with help of SOI maps. **CO8.** Actual site visits will inform methods of acquiring knowledge of landforms and other geographical features. **CO9.** The Knowledge of various weather factors will develop the knowledge of weather forecasting in students. **CO10.** The Knowledge of observation of air pressure lines will be acquired, and will help to understand its effect on various climate phenomena. **CO11.** Knowledge of modern information systems such as GIS and Remote Sensing will be developed. **CO12.** The art of deploying data contained in geographic information systems will be learned. **CO13.** To aware about GIS and Remote Sensing related open source software will be available on computer. **CO14.** To explain the elementary and essential principles on field of practical work.
TYBA	**V**	**Research Methodology –I Subject Code: SEC – 2C**	**Geography**	**CO1.** To develop the understanding of the basic concept of research **CO2.** To develop the understanding of the basic framework of sampling and data collection

				CO3. To develop the understanding of various sampling methods and techniques. **CO4.** To understand the steps of research process. **CO5.** Students can design the good research proposal. **CO6.** To aware about different types of research.
TYBA	**VI**	**Geography of Tourism - II, Subject Code: Gg.310 (A**	**Geography**	**CO1.** Students can realize the importance of accommodation in tourism development. **CO2.** To know about different types of accommodation. **CO3.** To Understand the role of tourism in economic development. **CO4.** To understand the impact of tourism on the environment. **CO5.** To describe the the impact of tourism on social and cultural factors. **CO6.** Students can learn about the functions of World Tourism Organization and its role in tourism development. **CO7.** Students can know the functions of Indian Tourism Development Corporation and its role in tourism development. **CO8.** To understand the functions of Maharashtra Tourism Development Corporation and its role in tourism development can be known. **CO9.** To know about various tourist places of India and their importance in economic development.
TYBA	**VI**	**Geography of India - II, Subject Code: Gg.320 (A)**	**Geography**	**CO1.** It will help to understand the scio-cultural setup of India. **CO2.** To know about Distribution of languages, and religions in India. **CO3.** To gain Knowledge about major tribes of India, their distribution and their problems. **CO4.** To acquire Information about

				the role of transport in regional development in India. **CO5.** To understand the different types/modes of transportation and their distribution in India. **CO6.** It will help to understand the importance of communication in regional development. **CO7.** To know the information regarding the distribution of energy resources and other resources in India. **CO8.** To describe importance of agriculture in the Indian economy. **CO9.** Can be known about distribution and importance of agricultural industries in India like sugar industry, textile industry **CO10.** To gain information about the various revolutions that have taken place in the agricultural in India.
TYBA	**VI**	**Practical Geography – II (Techniques of Spatial Analysis) Subject Code: Gg.301 (A)**	**Geography**	**CO1.** To understand the various types of data and basic analysis of data. **CO2.** Students can handle and collect various types of primary and secondary data. **CO3.** To understand meaning and description of central tendency. **CO4.** Students can use the methods of central tendency for various types of geographical data. **CO5.** To understand types of hypothesis and proper use in geographical research. **CO6.** Student can understand the concept of correlation and regression. **CO7.** Skill of data acquiring enhancing in students. **CO8.** Observation skills of physiographic features has increases in students. **CO9.** Students can communicate the peoples by various field survey

				methods. **CO10.** To write a good report of field visit or social surveys.
TYBA	**VI**	**Research Methodology – II Subject Code: SEC – 2C**	**Geography**	**CO1.** To identify various sources of information for data collection. **CO2.** Understanding of the conducting survey on various issues and develop the Report writing skill of students **CO3.** To know and handle the primary data sources. **CO4.** To aware about secondary data sources. **CO5.** Students can write the Dissertation and Thesis, Research paper, review article. **CO6.** To understand the ccharacteristics of Good Research and Report Writing.

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