

Mahatma Gandhi Vidyamandir's

Loknete Vyankatrao Hiray Arts, Science and Commerce College, Panchavati, Nashik-422003

(Affiliated to SPPU, Pune, Reaccredited with 'A' grade, Recipient of Best College Award by SPPU)

Programme Specific Outcomes, &

Course Outcomes of M.A/MSc.

Department of Geography

Academic Year

2022-23

Programme Specific Outcomes: M.A. Subject (Programme code)

	Name of the Programme: M.A. Subject		
	Program Specific Outcomes		
	At the end of the programme, student will be able to		
1	PSO1: Knowledge of geographical terms, concepts and Theories.		
2	PSO2 : Ability of explanation of correlation between geographical facts and processes.		
3	PSO3: Development of map preparation and map reading skills.		
4	PSO4: Understanding of Regional Geography of India.		
5	PSO5 : Ability to use geographical research methodologies and research projects.		

Course Outcomes: M.A. Subject (Programme code)

Class : M.A. Subject			
	Semester-I		
Paper	Course code & course title	At the end of the course, student will be able to	
	PASG GGUT: 111	CO1: Explain principal terms, definitions, concept and theories of Geomorphology. CO2: Discuss how different scales of time and space affect geomorphological processes and the development of micro to mega scale landforms. CO3: Explain different concept, theories and models for landscape evolution.	
GGUT: 111	Principles of Geomorphology	CO4: Describe the exogenous and endogenous processes in the landscape, their importance in landform development, and distinguish the mechanisms that control these processes. CO5: Describe the different Materials of the earth crust, rock types, and types of weathering, mass movements and types of slope. CO6: Apply knowledge of basic landforms from tectonic,	
GGUT: 112	PASG GGUT: 112 Principles of	volcanic, fluvial, glacial, Aeolian and coastal environments. CO1: Explain principal terms and concepts of Climatology. CO2: Describe composition and Structure of Earth Atmosphere CO3: Explain basic concepts of air temperature, air pressure and its measurement, Winds. CO4: Describe scales of Atmospheric Motion and Models of air	
	Climatology	circulation. CO5: Explain basic concepts of hydrological cycle, condensation and evaporation. CO6: Apply skill of weather forecasting and application in deferent sectors of Climatology.	
GGUT113	PASG GGUT 113 Principles of Economic	CO1: Explain principal terms, definitions, concept, nature, scope and recent trends in Economic Geography. CO2: Discuss types of hypotheses in economic geography and formation and testing of hypotheses. CO3: Explain economic landscape, theories and models. CO4: Describe resources and explain significance of natural and human resources in economic development.	
	Geography PASG GGDT-114 Principles of	CO5: Describe different Factors of Production and related aspects. CO6: Explain measures of economic development with classification of countries. CO1: Explain Evaluation of settlement and population geography globally. CO2: Describe factors influencing growth and distribution and	
GGDT-114	Population &	patterns of settlements . CO3: Evaluate effects of technology on shelter and pattern of settlement. CO4: Analyse factors influencing the dispersion and nucleation.	

	Settlement	CO5: Analyse factors responsible for urbanization and influencing
	Geography	the distribution of settlement globally. CO6: Apply of theories of population growth to study settlement
		history.
		CO1: Describe drainage network analysis, drainage basin relief analysis, stream ordering- Harton and Strahler's Method.
		CO2: Explain the relationship between stream order and
	PASG GGUP	number.
	115 Practical in	CO3: Demonstrate climatic diagrams.
GGUP115	Physical and	CO4: Construct water budget diagram using Precipitation &
GGGF113	Human	potential evapotranspiration data.
	Geography	CO5: Calculate crop combination, crop diversification and
		analysis of methods, network structures, age sex pyramid & infant mortality rate and population growth rate and population
		projection.
		CO6: Apply Rank size rule, nearest neighbour analysis and
		calculation of centrality. Semester-II
		CO2: Describe histograph describes and principles, components.
	PAGG COLUE	CO2: Describe history of development of remote sensing and GIS in India
COUT 424	PASG GGUT- 121	CO3: Describe database and data models in Geoinformatics.
GGUT-121	Geoinformatics-I	CO4: Explain processing and analysis of collected data
		CO5: Apply knowledge of Geographical Information System in
		assessment, planning and monitoring in real life application.
		CO6: Apply knowledge spatial data analysis.
		CO1: Explain principal terms, definitions, concept and theories of Coastal Geomorphology.
		CO2: Discuss different coastal processes and the coastal
		landforms.
	PASG GGUT-122	CO3: Explain mechanism of sea level changes.
		CO4: Describe coastal sediments their properties, types and movement.
	Coastal	CO5: Describe different coastal environments - Fluvial-
	Geomorphology	dominated, Wave-dominated, Tide-dominated and Biotic
GGUT-122		environments.
		CO6: Apply knowledge of coastal Geomorphology in the field of sea level rise, storm hazard management, coastal
		erosion, wetlands, kha lands, estuarine reclamation, salt
		intrusion and subsidence of coastal aquifers.
		CO1: Explain principal terms, definitions, concept and theories of
	PASG GGUT-126	fluvial Geomorphology. CO2: Describe Hydraulic Geometry.
GGUT-126	Fluvial	CO2: Describe Hydraunic Geometry. CO3: Explain fluvial processes.
	Geomorphology	CO4: Describe Channel Morphology
	parties parties y	CO5: Explain Fluvial Erosion, transportation and deposition and
		associated landforms.

		CO6: Explain river metamorphosis.
	PASG GGDT-130 Geography of	CO1: Explain the history and basic concepts, factors of Tourism.
		CO2: Understand the types of tourism.
GGDT-130		CO3: Distinguish different aspects of Tourism Geography.
	Tourism	CO4: Assess role of accommodation and the impacts of
		tourism.
		CO5: Understand and implement the planning and policies of
		tourism development in India.
	DAGG GGDD 444	CO1: Describe the fundamental concepts of map projections.
	PASG GGDP-133	CO2: Classify map projections on different bases.
	Practical in Map	CO3: Construction of different map projections.
	-	CO4: Discuss properties of map projection
	Projections	CO5: Apply knowledge of maps projection
		CO6: Evaluate the use of map projections.
		CO1: Explain descriptive and inferential statistics,
		Geographical data and scales of measurement.
	PASG GGUP -134	CO2: Discus Importance of Statistics in Geography.
	Practical of	CO3: Calculate Measures of Central tendency and dispersion.
GGUP -134	Statistical	CO4: Analyse probability assessment and their calculation
2301 134	Techniques in	procedures and applications and uses in different field of
	Geography	geography.
		CO5: Describe Time series analysis, calculation and plotting
		moving Average.
		CO6: Distinguish the correlation and regression as well as
		inferential statistical test and testing of hypothesis

Class : M.A. Subject -II		
		Semester-III
Paper	Course code & course title	At the end of the course, student will be able to
GGUT:235	PASG GGUT:235 Geoinformatics- II	CO1: Illustrate the concepts, history and development of Remote Sensing CO2: Describe EMR and EMS CO3: Analyse different Platforms, Satellites, Sensors and Resolutions with their uses CO4: Interpret the Satellite Imageries and Aerial Photographs
GGUT: 236	PASG GGUT: 236 Geographical Thoughts	CO1: Explain development of geography in the ancient, mediaeval and modern period. CO2: Describe dualism, dichotomies, paradigms, system approaches and models in geography CO3: Explain recent trends in geography CO4: Apply knowledge of geographical concepts.
GGUT: 237	PASG GGUT: 237 Tropical Geomorphology	CO1: Describe concepts tropical environment, tropical climate & morphogenetic regions CO2: Explain factors influencing weathering- climatic, geomorphic, biotic, geologic, chronologic and site factors CO3: Describe tropical soil formation and its processes, Slope Wash, Mass Movement CO4: Describe Classification and distribution of duri crusts and laterites in India CO5: Explain landform development in tropical region and Planation concepts and processes
GGDT: 243	PASG GGDT: 243 Watershed Management	CO1: Describe Definition, concepts, necessity and problems of watershed management. CO2: Analyze characteristics of watershed management. CO3: Explain hydrological process in watershed management CO4: Illaborate water and soil conservation in watershed management. CO5: Apply Remote sensing and GIS in watershed management CO6: Explain integrated watershed development plans and importance of watershed management in national development.
GGDP: 244	PASG GGDP: 244 Practical in Multivariate Statistics	CO1: Describe bivariate and multivariate analysis and objectives of multivariate analysis. CO2: Explain Matrix Algebra and determinants of a Matrix. CO3: Analyse of curvilinear bivariate relationships CO4: Calculate Multivariate Analysis, computing of multiple regression equation.
		CO5: Find out Co-efficient of multiple determination and explained variance.

		CO1: Define Geomorphological mapping with symbols, prepare and
		interpret geomorphological map.
	PASG GGUP:245	CO2: Analyse direct and indirect measurements of Hill Slope.
	PASG GGUP.245	CO3: Discuss Surveying and plotting of stream or gully channel with
GGUP:245	Practical in	various survey methods.
		CO4: Describe Soil/Sediment with various samples, methods and plot
	Geomorphology	the data with interpretation.
		CO5: Classify hillside segments and implement Dalrymple's nine unite
		land-surface model.
		CO6: Develop GPS Survey.
		Semester-IV
		CO1: Describe geographical location, strategic significance and
		geological structure of India in relation to World.
		CO2: Explain physiographic divisions and drainage system of India.
		CO3: Describe climatic regions and seasons of India using climatic data.
		CO4: Describe soil types and their distribution in India by using
		geographical map.
	PASG GGUT :	geograpmear map.
GGUT:	_	
2.40	249 Geography	CO5: Describe major forest types, crops and their distribution and
249	of India	production in India
	Oi iliula	
		CO6: Describe minerals, power resources and major Industries
		distribution and development in India
		CO7: Evaluate population growth and distribution in India.
		CO8: Evaluate regional development in terms of infrastructure, industries
		and agriculture.
		CO1: Explain definition, concept, theories, foundation and contribution in the study of Oceanography.
		CO2: Describe the origin of the ocean Basins, world oceans and ocean
	PASG GGUT-	floor/bottom with their formations and theories.
	250	CO3: Describe the properties and movement of sea water.
GGUT-250	Oceanography	CO4: Explain sediments on the ocean floor and ocean resources
	o country in the second	CO4. Explain sediments on the ocean moor and ocean resources
		CO5: Discuss the causes and measures of Ocean Pollution
		Cos. Discuss the causes and measures of Ocean Foliution
		CO1: Discuss Meaning, Characteristics, Types, Steps in Research
GGUT:		Methodology
		CO2: Distinguish between Research Methods and Methodology
251		CO2. Distinguish octween research frequous and frequously

		CO3: Prepare Research Design, Sampling Design and find out research problem.
	PASG GGUT :	CO4: Apply methods of data collection and data analysis.
	251 Research	CO4. Appry methods of data concetion and data analysis.
	Methodology	CO5: Write Research Report with structure and organization
		CO6: Follow Research Ethics, Plagiarism and search funding agencies.
		CO1: Define soil, and discuss Nature, scope and development of soil geography and soil as a resource.
GGUT:	PASG GGUT: 252 Geography	CO2: Analyse Soil Formation and Soil Profile
252	of Soil	CO3: Illustrate Components and Characteristics of Soil
		CO4: Explain the classification and types of soils.
		CO5: Critically examine the problems related to Soil and Soil
		Conservation.
		CO1: Define definition of Watershed/Drainage Basin from Toposheet.
		CO2: Illustrate Basin Perimeter, Shape and Area.
	PASG GGDP :	CO3: Describe drainage network stream ordering- Strahler's Method and Bifurcation Ratio.
GGDP:	256 Practical in	CO4: Calculate linear aspect of Drainage Basin like Stream ordering,
256	Watershed	bifurcation ratio, CO5: Elaborate Relief aspects of Drainage Basin such as Calculation of
	analysis	Relief Ratio, Relative Relief, Ruggedness number, Absolute and Relative Relief Map
		CO6: Apply software's for Drawing Delineation of watershed, physiographic map, watershed map, drainage network map, contour and slope map.
	PASG GGUT :	CO1: Discuss the origin, evolution, Geological time scale, continents and oceans and Major natural regions.
GGUT:	258 Geography	CO2: Explain continents with their characteristics like location,
258	of World	physiography, climate and agriculture CO3: Compare continents with their characteristics like Natural vegetation, Wildlife, Mineral Resources, Population in important countries

		CO4: Critically analyse world contemporary issues like Boarder and Water, Health, Environmental, Population issues.
		CO5: Evaluate the role of WTO & IMF CO6: Analyse the challenges like food security, climate change, global public health, terrorism and opportunities like globalization and tourism
COUR	PASG GGUP:	CO1: Identify the Research Problem and apply specific techniques to solve it.
GGUP: 259	259 Dissertation	CO2: Manipulate the basic framework of sampling. CO3: Use various sources of information for data collection. CO4: Formulate data collection and tabulation.
		CO5: Conduct the survey on various issues, analyse, describe and interpret collected data