



VASANTA COLLEGE FOR WOMEN

बसंत महिला महाविद्यालय

Admitted to the Privileges of Banaras Hindu University
Krishnamurti Foundation India, Rajghat Fort, Varanasi - 221 001

Estd: 1913

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Department of Geography

U.G. Programme Outcomes (PO)

The teacher enables the students:

- PO₁ - To get in depth knowledge of their individual discipline
- PO₂ - To think creatively & critically
- PO₃ - To have a cognitive clarity of the content
- PO₄ - To train them in logical thinking and reflective reasoning
- PO₅ - To develop social skill and environmental sensitivity.
- PO₆ - Apply the disciplinary knowledge in real life situations
- PO₇ - To appreciate and practice the universal values to be an efficient global citizen
- PO₈ - To make them digitally competent.

Programme Specific Outcomes (PSO)

The Program will enable the students to:

- PSO 1: acquire in-depth knowledge and understanding about the fundamental concepts, principles, and theories in various fields of Geography.
- PSO 2: analyze man environment relations in a better way.
- PSO 3: develop their field observations, data gathering and interpretations skill.
- PSO 4: familiarize with the applied aspects in different sub branches of geography
- PSO 5: identify frontier area of research and sub-branches of geography for further research.
- PSO 6: analyze the problems of physical as well as cultural environments of both rural and urban areas and find out the possible measures to solve those problems
- PSO 7: use various modern instruments and collect primary data and secondary data.

Principal

PRINCIPAL
VASANTA COLLEGE FOR WOMEN
RAJGHAT FORT, VARANASI

Department Incharge

Co-Ordinator IQAC

Convenor Learning Outcome Committee

Mapping of Course Outcomes with POs and PSOs

Program me Name	Semester	Name of the paper	Course Outcome	Programm e Specific Outcomes	Program me Outcomes
B.A.	I	GRA 101: Physical Geography	<p>The student will be able to</p> <ul style="list-style-type: none"> Differentiating the effect of rotation and revolution of the earth. Explaining the interior structure of the earth. Classifying the formation of rocks. Demonstrating the work of internal and external forces and their associated landforms. Examine the types of winds, composition of atmosphere, atmospheric pressure, and pressure belts. Explaining the different theories of origin of the ocean basin. 	<p>PSO 1</p> <p>PSO 1</p> <p>PSO 4</p> <p>PSO 1</p> <p>PSO 1</p> <p>PSO 1</p>	<p>PO 1</p> <p>PO 2</p> <p>PO 3</p> <p>PO 1</p> <p>PO 1</p> <p>PO 3</p>
B.A.	II	GRA 201: Human Geography	<p>The student will be able to</p> <ul style="list-style-type: none"> Explaining the different thoughts in human geography. Classifying the different race 	<p>PSO 1</p> <p>PSO 4</p>	<p>PO 1</p> <p>PO 5</p>

			<p>and their broad distribution.</p> <ul style="list-style-type: none"> Discussing the different types of migration and the major distribution of human agglomeration. 	PSO 4	PO 3
			<ul style="list-style-type: none"> Classifying the different types of settlement and its region patterns. 	PSO 4	PO 4
B.A.	III	GRA 301: Economic Geography	<p>The student will be able to</p> <ul style="list-style-type: none"> Explaining the meaning, concepts and approaches of economic geography. Classifying the different economic activities. Showing the distribution of various resources i.e. mineral and power. Examine the theories given on the perspective of primary and secondary economic activities. Determine the world distribution of transportation (by sea route and trans-continental railways) and trade taking 	<p>PSO 1</p> <p>PSO 1</p> <p>PSO 1</p> <p>PSO 3</p> <p>PSO 6</p>	<p>PO 1</p> <p>PO 2</p> <p>PO 1</p> <p>PO 3</p> <p>PO 4</p>

			<p>place on around the world.</p> <ul style="list-style-type: none"> Discussing globalization and its relevance in present scenario. 	PSO 6	PO 4
B.A.	IV	GRA 401: Regional Geography of Developed and Developing World (U.S.A & China)	<p>The student will be able to</p> <ul style="list-style-type: none"> Defining different levels of development and its comparison. Listing the location, physiography, climate and vegetation of China and U.S.A. Outlining the silent feature problem and prospect of developed and developing countries. 	<p>PSO 1</p> <p>PSO 1</p> <p>PSO 1</p>	<p>PO 1</p> <p>PO 5</p> <p>PO 5</p>
B.A.	V	GRA 501: Geomorphology	<p>The student will be able to</p> <ul style="list-style-type: none"> Explaining the fundamentals of earth structure. Relating the knowledge about origin of various landform. Illustrating the denudation process. Interpreting regional geomorphology of Uttarakhand Himalaya and Middle Ganga Plain. 	<p>PSO 4</p> <p>PSO 1</p> <p>PSO 4</p> <p>PSO 5</p>	<p>PO 3</p> <p>PO 1</p> <p>PO 6</p> <p>PO 6</p>

B.A.	V	GRA 502: Geography of India	<p>The student will be able to</p> <ul style="list-style-type: none"> Identify and explaining the different physiographic characteristic i.e., climate, soil, and vegetation in India. Illustrating the different types of agricultural practices and major industries in India. Showing agricultural region, industrial region, present transport, and trade of India. Stating the different classification of Regions by Indian geographers. 	<p>PSO 4</p> <p>PSO 6</p> <p>PSO 6</p> <p>PSO 4</p>	<p>PO 6</p> <p>PO 6</p> <p>PO 6</p> <p>PO 6</p>
B.A.	V	GRA 506: Population Geography	<p>The student will be able to</p> <ul style="list-style-type: none"> Summarizing the history of population growth. Describing the different type of data and its sources. Comparing the distribution of population, migration, urbanization etc. Investigating current issues and population problems in India. 	<p>PSO 1</p> <p>PSO 3</p> <p>PSO 6</p> <p>PSO 6</p>	<p>PO 1</p> <p>PO 5</p> <p>PO 7</p> <p>PO 6</p>

			<ul style="list-style-type: none"> Explaining population policy of India. 	PSO 6	PO 7
B.A.	VI	GRA 601: Evolution of Geographical Thought	<p>The student will be able to</p> <ul style="list-style-type: none"> Explain the basic of geographical thought. Interpreting knowledge of geographical thoughts of Greek, Roman, Arab, German, French, British and American. Restating modern geographical thoughts in different periods. 	<p>PSO 1</p> <p>PSO 6</p> <p>PSO 4</p>	<p>PO 1</p> <p>PO 7</p> <p>PO 4</p>
B.A.	VI	GRA 602: Climatology	<p>The student will be able to</p> <ul style="list-style-type: none"> Differentiating the process of weather and climate. Demonstrating the composition and structure of atmosphere, weather phenomena, winds, humidity and precipitation. Interpreting heat budget. Illustrating the Koppen and Thornthwaite classification of climate. Examining the climate change evidence and 	<p>PSO 1</p> <p>PSO 2</p> <p>PSO 4</p> <p>PSO 5</p> <p>PSO 6</p>	<p>PO 1</p> <p>PO 2</p> <p>PO 4</p> <p>PO 3</p> <p>PO 7</p>

			hypotheses of global warming.		
B.A.	VI	GRA 608: Regional Development and Planning	<p>The student will be able to</p> <ul style="list-style-type: none"> Describing the concept of regional development and regional planning. Comparing the regional disparities in India. Examining the techniques used to analyse regional development and planning. Evaluating the problems, prospects of planning and policies in India. 	<p>PSO 1</p> <p>PSO 6</p> <p>PSO 4</p> <p>PSO 6</p>	<p>PO 1</p> <p>PO 3</p> <p>PO 5</p> <p>PO 7</p>
B.A.	I, II, III, IV, V, VI	Practical: GRA 102, GRA 202, GRA 302, GRA 402	<p>The student will be able to</p> <ul style="list-style-type: none"> Drawing, weather map, scale, profile and interpretation of weather map and toposheet. Mapping the area with the help of surveying. Computing with the help of different statistical methods. Construction of scale, graph, diagram, and maps were done. Describing and constructing map projection. 	<p>PSO 3</p> <p>PSO 5</p> <p>PSO 3</p> <p>PSO 7</p> <p>PSO 7</p>	<p>PO 3</p> <p>PO 6</p> <p>PO 6</p> <p>PO 6</p> <p>PO 8</p>

			<ul style="list-style-type: none"> • Discussing and analysing remote sensing, aerial photograph, and satellite imageries. • Employing the Indian remote sensing for various analyses. 	PSO 7 PSO 7	PO 8 PO 8
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Department of Geography

P.G. Programme Outcomes (PO)

The teacher will enable the students:

- PO₁ - To achieve mastery in their discipline
- PO₂ - To apply critical reasoning and creative thinking in planning and dealing their daily life situations
- PO₃ - To develop a knack for research
- PO₄ - To be efficient in working cooperatively in teams and to develop leading quantity
- PO₅ - To have mastery in modern information and digital literacy
- PO₆ - To inspire them to become morally and ethically strong
- PO₇ - To train them to adopt inclusive society by respecting the diversity
- PO₈ - To become exemplary and inspirational in various fields
- PO₉ - To attain excellence in their individual fields

Program Specific Outcome (PSO)

The Program will enable the students to:

- PSO 1: Understand the theoretical and applied aspects of geography as a branch of Knowledge.
- PSO 2: acquire comprehension about the key methodological and different approaches to interpret geographical facts.
- PSO 3: develop advanced level concepts of Remote Sensing and Geographical Information System and their applications in present-day situation
- PSO 4: Enhance their practical skill through field visits and firsthand experience of tools/equipment.
- PSO 5: develop advanced level concepts of Remote Sensing and Geographical Information System and their applications in present-day situation.
- PSO 6: Demonstrates true values of leadership, co-operation, hard work, teamwork, etc. during the field works, surveys and field visits.
- PSO7: Understanding the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly, and sustainable lifestyles.
- PSO 8: Develop the ability of critical thinking which would help them to reflect upon their surroundings in a holistic approach.
- PSO 9: identify the socioenvironmental problems of urban & rural settlements.
- PSO 10: Perform well in NET/JRF and other Competitive examination and pursue higher studies

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MAPPING OF COURSE OUTCOMES WITH POs AND PSOs

Program Name	Semester	Name of the paper	Course Outcome	Program Specific Outcomes	Program Outcomes
M.A.	I	GRM 101: Modern Geographical Thought	<p>The student will be able to</p> <ul style="list-style-type: none"> • Outlining the nature of geographical knowledge and the concepts related to Man-environment interaction like space, place, environment, time, and spatial organization. • Illustrating different modern approaches like Quantitative revolution; Humanistic approach and Behavioural approach. • Comparing the contemporary trends on modern geographical thought with the knowledge of post-modernism and post-structuralism, social theory and De/reconstruction etc. • Evaluating the trend of India geography from the perspective of Gandhi, Nehru and Ambedkar. 	<p>PSO 1</p> <p>PSO 2</p> <p>PSO 1</p> <p>PSO 8</p>	<p>PO 1</p> <p>PO 2</p> <p>PO 2</p> <p>PO 2</p>
M.A.	I	GRM 102: Advanced Geomorphology	<p>The student will be able to</p> <ul style="list-style-type: none"> • Explaining the nature, scope and significance of geomorphology and fundamental concepts in this subject. • Evaluating the fundamental models of cycle of erosion and function of river and its landform development process. • Construct and drawing the formation process and development of hill slope. • Discussing the morpho-chronology, dating of landscape and soil erosion and its measurement. 	<p>PSO 1</p> <p>PSO 8</p> <p>PSO 1</p> <p>PSO 1</p>	<p>PO 1</p> <p>PO 7</p> <p>PO 1</p> <p>PO 1</p>
M.A.	I	GRM 103: Hydrology	<p>The student will be able to</p> <ul style="list-style-type: none"> • Discussing the study about hydrology its nature, scope and different study methods. 	<p>PSO 2</p>	<p>PO 1</p>

			<ul style="list-style-type: none"> • Labelling the hydrological parameters, precipitation, evaporation and transpiration, infiltration, run-off. • Computing the stream flow measurement and basin morphology. • Examining the existing and old water policies and conservation methods used in India. 	PSO 2 PSO 1 PSO 8	PO 1 PO 1 PO 7
M.A.	I	GRM 104: Basin Morphometry, Geological Map and Hydrological Analysis	The student will be able to <ul style="list-style-type: none"> • Explaining and drawing delineation of basin; Linear aspects: stream ordering, bifurcation ratio, law of stream numbers, length ratio. • Analysing water balance graph and determination of the component's hydrology. 	PSO 1 PSO 1	PO 1 PO 1
M.A.	I	GRM 105: Statistical Methods and Data Processing	The student will be able to <ul style="list-style-type: none"> • Calculating chi-square test, student's t-test, F-test, analysis of variance; Analysis of time series, Collection of data and data input in computer. 	PSO 2	PO 3
M.A.	I	GRM 106: Spatial Analysis: Locational and Network	The student will be able to <ul style="list-style-type: none"> • Discussing the applicability of locational and network analysis with various models and calculation of various indices and matrix. 	PSO 1	PO 2
M.A.	II	GRM 201: Research Methodology	The student will be able to <ul style="list-style-type: none"> • Discussing the basic concepts of research and its methodologies. • Identifying appropriate research topics. • Investigating the appropriate research problem and parameters. • Preparing a project proposal. • Differentiating and analyzing various types of data and its collection methods. • Organize and conduct research in a more appropriate manner. • Creating research report, dissertation, and thesis. 	PSO 8 PSO 8 PSO 8 PSO 8 PSO 4 PSO 8 PSO 8	PO 3 PO 3 PO 3 PO 3 PO 4 PO 7 PO 9

M.A	II	GRM 202: Geography of Resource	<p>The student will be able to</p> <ul style="list-style-type: none"> • Discussing the concept, classification, and scope of resource geography. • Examining the theory related to human resource and location aspects. • Discussing the problems related to resources and conservation of resources • Showing the distribution of resources and regional variation of resources. 	<p>PSO 8</p> <p>PSO 6</p> <p>PSO 8</p> <p>PSO 1</p>	<p>PO 3</p> <p>PO 7</p> <p>PO 4</p> <p>PO 1</p>
M.A.	II	GRM 203: Village Survey: Instrumental and Socio- economic	<p>The student will be able to</p> <ul style="list-style-type: none"> • Preparing and examining the method of surveying with the help of theodolite and levelling by dumpy level; Use of GPS and total stations for collection of data and mapping making, interview schedule; conducting household survey and report writing. 	<p>PSO 6</p>	<p>PO 7</p>
M.A.	II	GRM 204A: Population Geography	<p>The student will be able to</p> <ul style="list-style-type: none"> • Examining the history of population, methodology of population geography, sources, and types of population data. • Differentiating the knowledge about various population theories and its implication in current scenario. • Investigating current issues and problems related to population in India. • Discussing the concept like zero population, over population, under and decline population. • Assessing the relevance of population policies and the changes. 	<p>PSO 8</p> <p>PSO 1</p> <p>PSO 9</p> <p>PSO 9</p> <p>PSO 9</p>	<p>PO 4</p> <p>PO 1</p> <p>PO 7</p> <p>PO 2</p> <p>PO 1</p>
M.A.	II	GRM 205A: Representation of Population Data	<p>The student will be able to</p> <ul style="list-style-type: none"> • Formulating and presenting population distribution map of India using dot and sphere/circle, cubes, combined; density map of India by choropleth; compound and superimposed pyramid of population data. 	<p>PSO 2</p>	<p>PO 1</p>
M.A.	III	GRM 301: Geographical Information System and its Application	<p>The student will be able to</p> <ul style="list-style-type: none"> • Identifying components and functions of GIS. • Explaining and drawing the various GIS models. 	<p>PSO 5</p> <p>PSO 5</p>	<p>PO 5</p> <p>PO 5</p>

			<ul style="list-style-type: none"> Stating the nature of GIS and remote sensing. Classifying the knowledge about various types of data models like vector, raster etc. 	PSO 5 PSO 5	PO 5 PO 5
M.A	III	GRM 302:	The student will be able to <ul style="list-style-type: none"> Explaining Physical aspects of India like climate, soil, vegetation, drainage etc. Explaining the human aspects like population distribution and growth, migration and the characteristic of urban and rural settlements. Categorizing the economic and regional aspects of Indian. 	PSO 5 PSO 6 PSO 6	PO 5 PO 7 PO 6
M.A	III	GRM 303: Remote Sensing and GIS	The student will be able to <ul style="list-style-type: none"> Understanding the applicability of remote sensing and areal photography in analysing the land use and land cover maps. Constructing and drawing the different models in GIS with the software and preparing the maps with the application of various procedures. 	PSO3 PSO 3	PO 3 PO 3
M.A.	III	GRM 304: Geographical Field Training	The student will be able to <ul style="list-style-type: none"> Categorizing the primary field training for 2 to 3 weeks duration and investigating the regions of India having geographical importance. 	PSO 6	PO 6
M.A.	III	GRM 305A: Geography of Rural Settlement	The student will be able to <ul style="list-style-type: none"> Explaining the nature and scope of rural settlement geography. Identifying the theories and models of settlement diffusion. Classifying and comparing the settlement types, pattern, and nature of different rural settlement. Comparing the morphology of Indian villages. 	PSO 9 PSO 9 PSO 9 PSO 9	PO 7 PO 6 PO 7 PO 7
M.A.	IV	GRM 401: Environmental Studies	The student will be able to <ul style="list-style-type: none"> Discussing the fundamental concepts related to environment, meaning, and structure. 	PSO 7	PO 6

			<ul style="list-style-type: none"> Evaluating the components and man's interaction with environment. Explaining nature, scope, basic concepts, and interdisciplinary science with its study methods. Examining the role of environmental, legislation laws and acts of environmental protection and conservation. 	PSO 7 PSO 7 PSO 7	PO 6 PO 7 PSO 7
M.A.	IV	GRM 402: Oceanography	The student will be able to <ul style="list-style-type: none"> Explaining the nature and history of oceanography as a science Illustrating the structure and evolution of the earth's ocean basins and coastlines. Discussing and showing the mechanics of waves, currents, and tides. Describe the major chemical and physical properties of seawater and the interaction of these properties. Classifying the marine biology in terms of habitats and zones, life in the oceans. Discussing how humans impact the marine environment in terms of resources from the sea and marine pollution. 	PSO 1 PSO 2 PSO 2 PSO 2 PSO 2 PSO 2	PO 1 PO 2 PO 2 PO 2 PO 2 PO 2
M.A	IV	GRM 403: Environmental and Soil Analysis	The student will be able to <ul style="list-style-type: none"> Assessing the Environmental Impact Assessment of a waste disposal site; Water analysis Analysing the soil's physical and chemical properties and its profile 	PSO 8 PSO 8	PO 3 PO 3
M.A.	IV	GRM 404A: Urban Geography	The student will be able to <ul style="list-style-type: none"> Identifying the urban settlement and distribution of urban centres. Assessing the issues related to urban centres and its planning. Applying various theories related to urban geography and list its applicability in today's context. Illustrating the details of national urban policies and master plans and its issues. 	PSO 9 PSO 9 PSO 9 PSO 9	PO 7 PO 7 PO 7 PO 7

M.A.	IV	GRM 405A: Methods and Techniques in Urban Geography	<p>The student will be able to</p> <ul style="list-style-type: none"> Explaining and drawing the global and Indian perspective of urban morphology, town planning and functional classification of towns. 	PSO 9	PO 7
IV		GRM 406: Field work dissertation and Presentation	<p>The student will be able to</p> <ul style="list-style-type: none"> The dissertation is formulated on selected thematic topic as per their specialization group. The dissertation is the process of collecting, compiling, and analysing the data related to the topic of dissertation. In the final stage it is evaluated. 	PSO 8	PO 3