Syllabus

for

M.A./ M.Sc.

in

GEOGRAPHY

[As per CBCS pattern recommended by UGC]

w.e.f. 2022-2023



VEER BAHDUR SINGH PURVANCHAL UNIVERSITY JAUNPUR

V.B.S. Purvanchal University, Jaunpur, U.P. Department of Geography, Faculty of Arts M.A./M.Sc., Geography, Two Years Semester Course, 2022-23

SEMESTER-VII

Course Code	Explanation	Title	Credits
A110701T	Theory	Geomorphology	4
A110702T	Theory	Environmental Geography	4
A110703T	Theory	Geography of India	4
A110704T	Theory	Fundamentals of Remote Sensing	4
A110705P	Practical	Statistical Methods , Air Photo Interpretation and Field Survey	4
	Minor		4
A110706R	Research Project	Survey Work	4
Total			28

SEMESTER-VIII

Course Code	Explanation	Title	Credits
A110801T	Theory	Economic Geography	4
A110802T	Theory	Climatology and Hydrology	4
A110803T	Theory	Population Geography	4
Or	ne Paper of the S	Special group to be selected from the follow	ing
A110804T	Theory (Optional)	Geography of Tourism or Geography of Rural Development	4
A110805P	Practical	Geological maps, Block Diagrams, Study Tour and Report	4
A110806R	Research Project	Survey Report	4
Total			24

SEMESTER-IX

Course Code	Explanation	Title	Credits
A110901T	Theory	Principles of Oceanography	4
A110902T	Theory	Social Geography	4
	One Paper of the	e Special group to be selected from the following	<u> </u>
A110903T	Theory (Optional)	Disaster Management or Geography of Resources	4
	One Paper of the	e Special group to be selected from the following	5
A110904T	Theory (Optional)	Regional Planning & development or Transport Geography	4
A110905P	Practical	Topographical Maps, Weather Maps and Field Survey	4
A110906R	Research Project	Village Report	4
Total			24

SEMESTER-X

Course Code	Explanation	Title	Credits
A111001T	Theory	Modern Geographical Thought	4
	One Paper of the	Special group to be selected from the following	g
A111002T	Theory (Optional)	Political Geography or Settlement Geography	4
	One Paper of the	Special group to be selected from the following	g
A111003T	Theory (Optional)	Agricultural Geography or Industrial Geography	4

	One Paper of the Sp	pecial group to be selected from the following	
A111004T	Theory (Optional)	Urban Geography or Research Methodology	4
A111005P	Practical	Projections, Diagrams and Field Survey	4
A111006R	Research Project	Dissertation	4
Total			24

External Expert

Convener

Prof. R.S. Yadav (BHU Varanasi)

Prof. Manoj Kumar Singh

PG members:

- 1. Prof. Rajendra Kumar Singh
- 2. Prof. Ravindra Kumar Pandey
- 3. Dr. Ashiya Parveen

UG Members:

- 1. Dr. Vindhyanchal Singh
- 2. Dr. Pramod Kumar Tiwari

Examination and Evaluation Pattern for M.A./ M.Sc.- Year $4^{th}~\&~5^{th}$ (All Semester)

To be implanted from Session: 2022-2023

THEORY

Year	Semester	Paper	Maximum Marks
4 th & 5 th	All	Theory(All)	Internal-25
			External-75

(A) Examination and evaluation pattern/ method for Internal Assessment

Examination Pattern	Marks	Total Marks
Assignment/ Seminar	10	25
Written Test	15	

(B)Examination and evaluation pattern/ method for External Assessment

Examination	Section	Number of	Marks for	Total of each	Grand Total
Pattern		Questions	each question	question	
	Section- A				
		10	1	10	
	(very Short				
	Answer Type				
	Questions)				
	Section- B				
Descriptive Type		5	7	35	
(Already	(Short				75
Prevalent)	Answer Type				
	Questions)				
	Section- C				
		2	15	30	
	(Long Answer				
	Type				
	Questions)				

Evaluation of Research Project (P.G.)

		0 \	
Year	Semester	Maximum Marks	Total Marks
4 th	VII & VIII	Internal-25 External-75	100
5 th	IX & X	Internal-25 External-75	100

Programme outcomes (After 2 years of study)

- a) This course intends to orient the learner with the approaches to the broader discipline of geography.
- b) It will help in developing analytical and critical thinking based on the themes and issues of geography.
- c) It eventually prepares the students to understand the development of the subject and delve around issues suited to the needs of the contemporary world.
- d) It will help in exhaustive understanding of the basic concepts of geography and awareness of the emerging areas of the field.
- e) Acquisition of in- depth understanding of the applied aspects of geography as well as interdisciplinary subjects in everyday life.
- f) The application of knowledge gained in the field of geography in classroom to the practical solving of societal problems.
- g) This programme orient students with tradition geographical knowledge along with advance contemporary skills like remote sensing and GIS.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 4th ,Semester -VII

Course Title:	GEOMORPHOLOGY
Course Code:	A110701T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will critically evaluate the interactive spaces of physical, human and environmental components of Earth. The course enables the students to analyze the fundamental concepts of lithosphere and establish the relations with geo-physical changes of geomorphic environment. Students will provide the geomorphic concepts for economic manifestations in everyday life.

Syllabus	No. of
	Lecture
	S
UNIT 1.	08
Meaning and Scope of Geomorphology, Recent Trends in Geomorphology,	
Basic concepts in Geomorphology: Structure, Process and Stage/Time -Davis and	
Penk.	

UNIT II	10
Concept of Plate tectonics; Mass movement of rock waste and res	sultant
landforms; Concept, classification and analysis of slopes	10
UNIT III.	10
Structural Geomorphology - Fold, Fault and Domal Structures	s and
Landforms; - Denudational Chronology of peninsular India, Himalayas and No	orthern
Plains.	
UNIT IV.	08
Applied Geomorphology: Terrain classification and its applications * Oil exploit Engineering projects ,Drainage network analysis – Stream orders, Sinuosity inde Drainage density	

Books Recommended

- 1. Ahmed, E. (1985): Geomorphology. Kalyani Publishers, New Delhi.
- 2. Bloom. A. L. (1998/2000): Geomorphology. 3rd Edition. Prentice Hall of India, New Delhi.
- 3. Chorley, R.J. Schumm S A and Sugden D E. (1984): Geomorphology. Methuen and Company Ltd., London.
- 4. Dayal, P. (1994): A Text book of Geomorphology. Kalyani Publishers, New Delhi.
- 5. Fairbridge, R. W. (ed.) (1968): Encyclopedic of Geomorphology, Reinhold Book Corporation, London.
- 6. Gregory, K.J. and Walling. D.E. (1973): Drainage Basin From and Process. Edward Arnold, London.
- 7. Jog, S. R. (ed.) (1995): Indian Geomorphology (2 vols.) Rawat Publications, Jaipur.
- 8. Kale, V. and Gupta, A. (2001): Introduction of Geomorphology. Orient Longman, Hyderabad.
- 9. King, C.A.M. (1996): Techniques in Geomorphology. Edward Arnold, London.
- 10. Pethick, J. (1984): An Introduction of Coastal Geomorphology. Arnold, London. Indian reprint 2000.
- 11. Sharma, P. R. (ed.), (1993): Applied Geomorphology in Tropics. Rishi Publications, Varanasi.
- 12. Singh, S. (2004): Geomorphology, PravalikaPrakashan, Allahabad.
- 13. Sparks, B.W. (1986): Geomorphology. Longmans, London.
- 14. Thornbury, W.D. (2005): Principles of Geomorphology. John Wiley and Sons, New York.
- 15. Wooldridge, S.W. and Morgan, R.S. (1959): The Physical Basic of Geography- An Outline of Geomorphology. Longman, London.
- 16. Worcester, P.G. (2017): A Text Book of Geomorphology, D.VanNontrand Company, Inc. Toronto, New York, London.
- 17. Sheldon Judson, Marvin E Kauffman & L.Don Leet, (1974) Physical Geology, 17th edition, Prentice Hall, Inc. Englewood Cliffs, New Jersey.

18. Tom, L. Mcknight& Darrel Hess, Sixth edition, (2000) Physical Geography, A landscape Appreciation, Prentice Hall, Upper Siddle River, New Jersey.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 4th, Semester – VII

Course Title:	ENVIRONMENTAL GEOGRAPHY
Course Code:	A110702T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will be able to know the various aspects of ecological degradation and generate the enthusiasm for protection, planning, preservation and sustainable management of environment

Syllabus	No. of
	Lectures
UNIT 1. Meaning and Scope of Environmental Geography: Basic principles of Environmental	10
Geography: Composition and types of environment; Ecological principles; Manenvironment relationship.	
UNIT II	10
Ecosystem: concept and components: Trophic levels; Food chains and food	
webs: Energy flow in the ecosystem; Circulation of matter in the ecosystem.	
UNIT III.	
Environmental degradation; Extreme events, hazards and disasters (earthquake, volcanoes, cyclones, floods); Environmental pollution (air, water, solid waste, soil	12
and noise pollution); Environmental pollution in India; Environmental Problems -	
global warming, ozone depletion.	
UNIT IV.	
Environmental management; concept and approaches; Environmental dimension in planning - sustainable development; environmental consciousness, Environmental policy.	08

Books Recommended

- 1. Anjuneyulu, Y. (2002): Environmental Impact Assessment methodologies. B. S. Publication, Hyderabad.
- 2. Anjuneyulu, Y. (2004): Introduction of Environmental science. B. S. Publication, Hyderabad.

- 3. Athavale, R. N. (2003): Water Harvesting and Sustainable Supply in India, Rawat Publications, Jaipur.
- 4. Bharucha, Erach (2015): Paryavaran Adhyayan, Orient black Swam.
- 5. Bilas, R. (1988): Rural Water Resources Utilization and Planning Concept Publishing Company, New Delhi.
- 6. Huggett, R.J. (1998): Fundamental Biogeography. Routledge, London.
- 7. Nag, P. Kumra, V.K. and Singh, J. (1990): Geography and Environmental issues at Local, Regional and National Levels. (In 3 vols.), Concept Publishing Company, New Delhi.
- 8. Odum, E.P. (1975): Ecology. Rawman and Littlefield, Lanham, USA.
- 9. Rajagopalan, R. (2005): Environmental studies: From Crisis to Cure, Oxford University Press, New Delhi.
- 10. Sexena, H.M. (2000): EnvironmentalManagement, Rawat publications, Jaipur and New Delhi.
- 11. Singh, D.N. Singh, J. and Raju, K.N.P. (eds.) (2003): Water Crisis and Sustainable Management, Tara Book Agency, Varanasi.
- 12. Singh, O., Nag, P., Kumra, V.K. and Singh, J. (eds.) (1993): Frontier in Environmental Geography. Concept Publishing Company, New Delhi.
- 13. Singh, R.B. (ed.) (1990): Environmental Geography, Heritage Publication, New Delhi.
- 14. Singh, R.B. (ed.) (1995): Studies in Environmental and Development. Rakesh Prakashan, Varanasi.
- 15. Singh, S. (2006): Environmental Geography, PravalikaPrakashan, Allahabad.
- 16. Singh, S. (2007): ParyavaranBhugol. PravalikaPrakashan, Allahabad.
- 17. Wrigley, N. (1985): Categorical Data Analysis for Geographers and Environmental Scientists, longoban, London.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 4th, Semester – VII

Course Title:	GEOGRAPHY OF INDIA
Course Code:	A110703T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	On completion of this course ,learners will be able to understand the wider aspect of geography of India.

Syllabus	No. of
	Lectures

UNIT I	10
Physiographical & Structural Regions of India: Indian Monsoon-	
Origin, Climatic Regions of India by Koppen, Trewartha, R.L. Singh,	
Classification of Indian soil, Soils erosion and conservation.	
UNIT II:	12
Indian Agriculture: Crop Production & Pattern: New Trends -Dry land	
farming, Green and White Revolutions, Eco –Farming; Agro-Climatic Regions,	
Conventional and Non- Conventional Energy resources, Production, Distribution of	
Mineral resources; locational factors of Indian Industries; Industrial Regions.	

	10
UNIT III Urban & Rural Sattlements Types & pattern: Urbanization in India	10
. Urban & Rural Settlements- Types & pattern; Urbanization in India,	10
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology;	10
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology; Problems of Rural- Urban Settlement; National Policies & Programmes;	10
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology;	10
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology; Problems of Rural- Urban Settlement; National Policies & Programmes; Origin and Dispersal of Races in India, Major tribes-Distribution and	10
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology; Problems of Rural- Urban Settlement; National Policies & Programmes; Origin and Dispersal of Races in India, Major tribes-Distribution and Classification.	
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology; Problems of Rural- Urban Settlement; National Policies & Programmes; Origin and Dispersal of Races in India, Major tribes-Distribution and Classification. UNIT IV	
. Urban & Rural Settlements- Types & pattern; Urbanization in India, Primate City, Functional Classification of city, Urban Morphology; Problems of Rural- Urban Settlement; National Policies & Programmes; Origin and Dispersal of Races in India, Major tribes-Distribution and Classification. UNIT IV Five Year Planning in India: Achievements and Failures; Multi-level Planning:	

Books Recommended

- 1. Ahmed, Waqar, Amitabh Kundra and Richard Peet(eds.) 2010. India's New Economic Policy: A Critical Analysis, Jaipur/New Delhi: Rawat Publication.
- 2. Ganguly, S. And Neil, De Votta (eds.) (2003): Understanding Contemporary India. Lynne Reinner Publishers, Boulder and London.
- 3. Gole, P. N. (2001): Nature Conservation and Sustainble Development in India, Rawat Publications, Jaipur and New Delhi.
- 4. Johnson, B.L.C. (ed.) (2001): Geographical Dictionary of India. Vision Books, New Delhi.
- 5. Khullar, D.R. (2006): India. A Comprehensive Geography. Kalyani Publishers, New Delhi.
- 6. Krishnan, M.S. (1968): Geology of India and Burma. 4th Edition. Higgin Bothams Private. Ltd, Madras.
- 7. Nag, P. and Gupta, S.S. (1992): Geography of India. Concept publishing Company, New Delhi.
- 8. Singh, R.L. (ed.) (1971): India. A Regional Geography. National Geographical Society of India, Varanasi.
- 9. Spate, O.H.K., Learmonth, A.T.A. and Farmer, B.H. (1979): India and Pakistan. Methuen and Company Ltd. London.
- 10. Subbarao, B. (1959): The Personality of India. University of Baroda Press, Baroda.
- 11. Sukhwal, P.L. (1987): India. Economic Resources Base and Cotemporary Political Patterns, Sterling Publications, New Delhi.
- 12. Tirtha, R. (2002): Geography of India. Rawat publications, Jaipur and New Delhi.
- 13. Tiwari, R.C. (2007): Geography of India, PrayagPustak Bhawan, Allahabad.
- 14. Wadia, D.N. (1959): Geology of India. Macmillan and Company, London & Madras. Student edition.

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M.A./M.Sc., Geography, Year 4th, Semester –VII

Course Title:	FUNDMENTALS OF REMOTE SENSING
Course Code:	A110704T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25
	External-75
Course Outcomes:	After the end of syllabus students will be efficient to decipher,
	inter operate and represent mapping of various geo-spatial data with
	the help of aerial photo graphs, remote sensing and photogrammetric
	technique.

Syllabus	No. of
	Lectures
UNIT I Remote Sensing -definition and Scope, electro-magnetic radiation,	10
characteristics: interaction with matter, type of remote sensing and remote sensing platform.	
UNIT II	10
Aerial photos: Types, Scale, resolution, geometric Properties of aerial photos,	
Stereoscopic parallax, Relief displacement.	
UNIT III	10
General orbital characteristics of remote sensing satellites, general characteristics of	
remote sensing sensors, characteristics of raw remote sensing data.	
UNIT IV	10
Elements of image interpretation, image processing techniques, visual and	
digital, Remote sensing in resource mapping and environmental monitoring. Land use	
and land cover mapping: a cover study.	

Books Recommended

- 1. Campbell, J. B. (2002): Introduction to Remote Sensing. 5th edition. Taylor and Francis, London.
- 2. Cracknell, A. and Hayes, L. (1990): Remote Sensing Year Book, Taylor and Francis, London.
- 3. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.
- 4. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
- 5. Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation, W.H.Freeman, New York.
- 6. Guham, P. K. (2003): Remote Sensing for Beginners. Affiliated East-West Press Private Ltd., New Delhi.
- 7. Hallert, B. (1960): Photogrammetry, McGraw Hill Book Company Inc., New York.

- 8. Harry, C.A. (ed.) (1978): Digital Image Processing, IEEE Computer Society, California
- 9. Hord, R.M. (1982): Digital Image Processing of Remotely Sensed Data, Academic Press, New York.
- 10. Leuder, D.R. (1959): Aerial Photographic Interpretation: Principles and Application. McGraw Hill, New York.
- 11. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4thedition. John Wiley and Sons, New York.
- 12. Nag, P. (ed.) 1992: Thematic Cartography and Remote Sensing, Concept Publishing. Company, New Delhi.
- 13. Reeves, R.G. (ed.) (1983): Manual of Remote Sensing, Vols. 1 and 2, American Society of Photogrammetry and Remote Sensing, Falls Church, Virginia.
- 14. Siegel, B.S. and Gillespie, R. (1985): Remote Sensing in Geology, John Wiley and Sons, New York.
- 15. Silver, M. and Balmori, D. (eds.) (2003): Mapping in an Age of Digital Media. Wiley-Academy, New York and Chichester.
- 16. Spurr, R. (1960): Photogrammetry and Photo Interpretation, The Roland Press Company, London.
- 17. Survey of India, (1973): Photogrammetry, Survey of India, Dehradun.
- 18. Swain, P.H. and Davis, S.M. (ed.), (1978): Remote Sensing: The Quantitative Approach.McGraw Hill, New York.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 4th, Semester –VII

Course Title:	STATISTICAL METHODS ,AIR PHOTO INTERPRETATION AND FIELD SURVEY
Course Code:	A110705P
Credit:	04
Type of Course:	Practical
Maximum Marks:	Internal-25 External-75
Course Outcomes:	After the end of syllabus students will be efficient to decipher, inter operate and represent mapping of various geo-spatial data with the help of statistical method and aerial photo graphs. Students will be able to correlate their class room knowledge with practical reality during empirical field based survey.

Syllabus	No. of
	Lectures
UNIT I	12
Statistical Methods: Measures of Central Tendencies. Measures of Dispersions,	,
Rank Order Correlation of Spearman, Product Movement Method/ Co-efficient of	
correlation by Karl Pearson, Regression, Normal Frequency distribution curve and its	

characteristics, Sampling Procedures: Random, Systematic and Cluster.	
UNIT II Aerial Photographs: Introduction, concept, history, platforms, types, scale, terminology and Interpretation of aerial photographs.	10
UNIT III Plotting of field book by Prismatic compass and solving problems. Problems related to surveying- solving three point and two point problems, correction of bearing, removing closing error, plotting of readings obtained by prismatic compass.	10

Assessment of Practical Examination

External Assessment		Internal Assessment	
Units	Maximum Marks	Pattern	Maximum Marks
UNIT I	20		
		Assignment	10
UNIT II	20		
UNITIII	20		
		Written Test	15
Record file & Viva	15		
Voce			
Total	75	Total	25

Books Recommended

- 1. Campbell, J. B. (2002): Introduction to Remote Sensing. 5th edition. Taylor and Francis, London.
- 2. Cracknell, A and Hayes, L. (1990): Remote Sensing Year Book, Taylor and Francis, London.
- 3. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.
- 4. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing.Indian Academy of Science, Bangalore.
- 5. D.N. Elahance, Fundamentals of Statistics.
- 6. D.N. Elahance, Political Problems in Statistics.
- 7. Floyd,F.and Sabins,Jr. (1986): Remote Sensing: Principles and Interpretation,W.H. Freeman,New York.
- 8. Gregory, S., Statistical Method and the Geographer.

- 9. Guham, P.K. (2003): Remote Sensing for Beginners. Affiliated East-West Press Private Ltd., New Delhi.
- 10. Harry, C.A. (ed.)(1978): Digital Image Processing, IEEE Computer Society, California.
- 11. Henery, E. Garrel, Statistics in Psychology and Education.
- 12. Hira Lal, PrayogatmakBhoogolKeAdhar (Hindi)
- 13. Hord,R.M.(1982):Digital Image Processing of Remotely Sensed Data,Academic Press,NewYork.
- 14. Leuder, D.R.(1959): Aerial Photographic Interpretation: Principles and Application. McGraw Hill, New York.
- 15. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th edition. John Wiley and Sons, New York.
- 16. Nag,P(ed.)1992:Thematic Cartography and Remote Sensing,Concept Publishing.Company,New Delhi.
- 17. Reeves, R.G. (ed.)(1983):Manual of Remote Sensing, Vols. 1 and 2, American Society of Photogrammetry and Remote Sensing, Falls Church, Virginia.
- 18. Robinson, A.H., Elements of Cartography.
- 19. Sharma, J.P. Prayogatmak Bhoogol Ki Rooprekha (Hindi)
- 20. Siegel, B.S. and Gillespie, R. (1985): Remote Sensing in Geology, John Wiley and Sons, New York.
- 21. Singh, R.L., Elements of Practical Geography.
- 22. Singh, L.R. & Singh, R.N. Map work and practical Geography (Eng./Hindi)
- 23. Smith, H.T.V. Aerial Photographs and their Applications.
- 24. Survey of India, (1973): Photogrammetry, Survey of India,
- 25. Tiwari, R.C. and Tiwari, Sudhakar, Abhinav Prayogic Bhoogol.

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M.A./M.Sc., Geography, Year 4th, Semester – VII

Minor (Other Faculty)

Credits – 4

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 4th, Semester – VII

Course Title:	SURVEY WORK
Course Code:	A110706R
Credit:	04
Type of Course:	Research Project

Semester-VIII

Department of Geography

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M.A./M.Sc., Geography, Year 4th, Semester – VIII

Course Title:	ECONOMIC GEOGRAPHY
Course Code:	A110801T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	On completion of the course students will be able to develop the ideas regarding geographical aspects of economy, types of economic activities, and will also conceptualize, demarcate and analyze the geographical determinants of manufacturing activities and energy resources.

Syllabus	No. of Lectures
UNIT I	10
Meaning, Scope, Evolution and Recent trends of Economic geography, Fundamental Concepts, location of economic activities and spatial organization of Economics. Sectors of economy-Primary, secondary, tertiary and Quaternary	
UNIT II	12
Concepts of resources, resource classification and conservation, human resources, water resources, biotic resources, mineral and power resources. Von-Thunen's model of agricultural location and its modifications. Concept and techniques of delimitation of agricultural regions by Whittlesey. Agricultural regions of the world.	
UNIT III	10
Classification of Industries: Resource based and footloose Industries. Theories of Industrial location-Weber and Isard. Case studies of selected industries: Iron and steel, Textiles, Sugar, Petro-Chemicals and chemical. Industrial regions of the World.	
UNIT IV Theories of transport and transport systems of the world. Economic regions and their salient features. Impact of WTO, Globalization, Liberalization & Privatization on the economy of developing World.	

Suggested Readings:

1. Chatterjee, S.P.: Economic Geography of Asia, Allied Book Agency, Calcutta, 1984.

- 2. Chorley, R.J. and Hagget, P. (ed.) Network Analysis in Geography, Arnold, 1969.
- 3. Jones C.F. and Darkenwald, G.G.: Economic Geography, McMillan Co. N.Y., 1975.
- 4. Millar E:Geography of Manufacturing, Prentice Hall, N.Y., 1962.
- 5. Raza M. and Agrawal, Y.: Transport Geography of India, Concepts, New Delhi, 1986.
- 6. Singh, K.N. and Siddiqui: Economic Geography, Pravalika Prakashan, Allahabad
- 7. Smith, D.M.: Industrial location: An Economic Geographical Analysis, John Wiley, N.Y. 1971.
- 8. Thomas, R.S.: The Geography of Economic Activities, McGrawHill, N.Y.1962.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 4th, Semester –VIII

Course Title:	CLIMATOLOGY AND HYDROLOGY
Course Code:	A110802T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will be able to conceptualize, analyze and apply the conceptsof weather and climate and correlate it with daily weather events. Students will develop the causal relations of climate with other social, economic and cultural activities. Students will be able to understand wider aspect of hydrology and its relevance.

Syllabus	No. of Lectures
UNIT I	10
Composition, mass and structure of the atmosphere, Insolation, Laws of Radiation, Solar Constant, Heat balance of the earth and atmosphere, Pressure and pressure belts, tri cell Circulation of wind, Jet stream, Permanent, Seasonal and Local winds.	
UNIT II Concepts, Classification, Characteristics of air masses and fronts, Climatic classification of Koppen, and Thornthwaite. Climate Change- Causes and theories: Global warming – Evidences, causes and effects; Atmospheric Hazards and disasters- Tropical Cyclones-Tornado, Typhoon Hurricane & thunderstorm and cloud-bursts; El-Nino, La-Nina, Walker Circulation, Southern Oscillation. (ENSO)	
UNIT III Definition and scope of hydrology, hydrological cycle and its sub cycles, Precipitation intensity and duration, Infiltration, Surface run off and Floods, Man's interference on hydrological cycle.	

UNIT IV	10
Sub-surface water, Soil moisture, Ground water-occurrence, Storage,	
movement. Water table fluctuation and safe yield. Principles and determination of	
water balance and its application in crop production. Water pollution, Applied	
hydrology.	

Suggested Readings

- 1. Berry R.G. and. Chorley. R. J. Atmosphere, Weather and Climate, Rutledge, London and New York, 1998.
- 2. Critchfield, J.H.: General Climatology, Prentiçe Hall, New Delhi, 1993.
- 3. Lal, D.S.: Climatology, Chaitanya Publications, Allahabad, 1986.
- 4. Lydolphh, P.E.: The Climate of the Earth, Rowman, 1985.
- 5. Robinson P.J. and Henderson S: Contemporary Climatology, Henlow, 1999.
- 6. Upadhyaya D.P., and Singh R.A.: Climatology and Hydrology.
- 7. Addison H: Land, Water and flood, Chapman and Hall, London, 1961.
- 8. Chorley, R.J.: Water, Earth and Man, Methuen, London, 1967.
- 9. Jones, J.A.A Global hydrology: Process, Resources and Environmental Management, Longman, London, 1997
- 10. Todd, D.K.: Ground water Hydrology, John Wiley, New York, 1959.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 4th ,Semester – VIII

Course Title:	POPULATION GEOGRAPHY
Course Code:	A110803T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	At the end of this course, it is expected that students will enable to describe and evaluate spatial and temporal dimension of population dynamics.

Syllabus	No. of Lectures
Y IN TWO Y	
UNIT I	10
Nature and Scope of population geography, development in population	
geography in world & India. Sources of population data;. The Census, Vital	
Registration and Other Sources, Problems relating to reliability of data and	
mapping.	

UNIT II	10
Population Dynamics- Measurement of fertility and mortality; Migration -	
causes& consequences, types and patterns. Theories of Migration: Ravenstein,	
Lee's Laws and Behavioral model.	
UNIT III	12
Population distribution, density and growth: Theories of population	
growth- Malthus, Neo-Malthus and Demographic Transition Model, density	
types, World Pattern of population distribution and density, India: population growth,	
distribution and density, population composition- Rural and Urban population, Sex	
Ratio, Literacy, Occupational structure.	
UNIT IV	08
Population-Resource regions of the World and India, Human development	
index and its components, Population policies and planning with special reference to	
India.	

Suggested Readings

- 1. Bogue, D.J.: Principles of Demography, John Wiley, N.Y., 1969.
- 2. Chandana, R.C.: Geography of population: Concept, determinants and Patterns, KalyamiPulblishers, 2000.
- 3. Clarke, John. I: Population Geography, Pergaman Press, Oxford,1973.
- 4. Crook, Nigel: Principles of Population and Development, Pergaman Press, N.Y, 1997.
- 5. Daugherty Helen Gin, Kenncth C.W. Kammeyer: An Introduction Population, the Guilford Press, N.Y., London, 1998.
- 6. Garmier, J.B.: Geography of Population, Longman, London, 1970.
- 7. Mamoria, C.B.: India's Population Problem, Kitab Mahal, NewDelhi, 1981.
- 8. Premi, M.K.: India's Population: Heading Towards a Billion, B.R.Publishing Corporation, 1991.
- 9. Srinivasan K. and M Blassoff: Population Development Nexus inIndia: Challenges for the New Millennium, Tata McGraw Hill,New Delhi, 2001.
- 10. Woods, R.: Population Analysis in Geography, Longman, London, 1979
- 11. Zelinsky, Wilber; A Prologue to Population Geography, PrenticeHall, 1966.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 4th, Semester – VIII

Course Title:	GEOGRAPHY OF TOURISM	
Course Code:	A110804T	
Credit:	04	
Type of Course:	Theory(Optional)	
Maximum Marks:	Internal-25 External-75	

Course Outcomes:	At end of this course, student will able to describe about the
	importance of geography in tourism and tourism potential hotspot in
	the various tourism generating regions of India.

Syllabus	No. of
	Lectures
UNIT I	08
Definition of tourism, Factors influencing tourism-historical, natural, Socio-cultural	
and economic; Motivating factors for pilgrimages, leisure and recreation, elements of	
tourism, tourism as an industry.	
UNIT II	12
Geography of tourism: its spatial affinity, areal and locational dimensions	12
comprising physical, cultural, historical and economic. Tourism types-cultural and	
adventure tourism, national and international tourism. Globalization and tourism.	
UNIT III	10
Indian tourism: Regional dimensions of tourist attraction, Evolution of	
tourism, Promotion of tourism. Infrastructure and support system-accommodation and	
supplementary accommodation, other facilities and amenities.	
UNIT IV	10
Impacts of tourism- Economic and Social. Positive and negative impacts,	
Current trends, spatial patterns and recent changes, Impact of globalization on	
tourism. Major tourist destinations of India.	
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Suggested Readings:

- 1. Bhatia, A.K.: Tourism: Development and Practices, Sterling Pub.New Delhi, 1996.
- 2. Chandra, R.H. Hill Tourism Planning and Development, Kanishka Pub., New Delhi; 1998.
- 3. Hunter C and Green H: Tourism and the Environment: ASustainable Relationship, Routledge, London, 1995.
- 4. Kaur J: Himalayan Pilgrimages and New Tourism, HimalayanBooks, New Delhi, 1993.
- 5. Milton, D: Geography of World Tourism, Prentice Hall, N.Y.1993.
- 6. Voase, R: Tourism: The Human Perspective, Hodder and Stoughton, London. 1995.
- 7. Williams Stephen: Tourism Geography, Routledge, London, 1998

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 4th ,Semester – VIII

Course Title:	GEOGRAPHY OF RURAL DEVELOPMENT

Course Code:	A110804T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will be able to efficiently formulate the issues and challenges of rural settlement and critically evaluate the suitability of different plans adapted for rural development in varying spatial context.

Syllabus	No. of Lectures
UNIT I Rural development: A geographical perspective. Concept of rural	
development. Structure and spatial organisation of rural settlements. Rural markets and market Centers, growth Poles and growth centres. Theories of central places,	
Rural land use and its problems and Planning.	
UNIT II Dimensions of rural economy: Physical and Human resources- their spatial patterns and interrelationships, Socio-economic dimensions, Infrastructural facilities, Socio-cultural organisations. Causes and consequences of rural migration. Effect of agriculture on rural development.	
UNIT III Social issues of rural areas- Poverty, Housing and shelter ,Deprivation, and Inequality, Women empowerment, Health care and unemployment. Environmental issues: Water supply, Sanitation, Drainage, Occupational health hazards.	
UNIT IV Balanced development strategies of India-Critical study of Panchayati Raj system, Role and relationship of panchayati raj institutions(Village panchayat, panchayat Samiti and Zila parishad) and administrative structure (village, block and district). Integrated rural development strategy.	

Suggested Readings:

- 1. Kuklinski, A.R. (ed): Growth Poles and Growth Centres inRegional Planning, Moutan, The Hague, 1972.
- 2. Kundu A. And Raza M; Indian Economy; The Regional Dimension, Spectrum Publishers, New Delhi, 1982.
- 3. Richardson, H.W.: Regional Economics, Weidenfeld and Nicholson, London, 1969.
- 4. Clout, H.D.: Rural Geography, Pergman, Oxford, 1977.
- 5. Ram Chandran, H: Village Clusters and Rural Development, Concept Publication, New Delhi, 1985.

- 6. Rao, E.N.: Strategy for Integrated Rural Development, R.B.Publication Cor. Delhi, 19860
- 7. Sriniwas M.N.: Village India, Asia Publication House, Bombay,1968.
- 8. Wanmali, S; Service centres in Rural India, B.R. Publication Cor.Delhi, 1983.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 1st, Semester – VIII

Course Title:	GEOLOGICAL MAP, BLOCK DIAGRAMS, STUDY TOUR AND REPORT	
Course Code:	A110805P	
Credit:	04	
Type of Course:	Practical	
Maximum Marks:	Internal-25	
	External-75	

Syllabus	No. of
	Lectures
UNIT I	10
Geological Maps -Drawing and interpretation of Geological cross-sections a	nd
maps inclined, folded, faulted and unconformable structures, igneous intrusions.	
UNIT II	12
Block Diagrams Selection of block Diagrams, one point perspective and to	vo
point perspective block diagram. Conversion of contour map into one point	nt
perspective blocks diagrams. Important landforms on block diagrams one point & tv	vo
point block diagrams.	
UNIT III	10
1. Study tour will be conducted by concerning department. T.A./D.A. and relate	d
expenses to teachers and supporting staff on tour study shall be met by the	
representative institutions.	
2. The duration of study Tour will be a minimum of 5 to 7 days.	
3. Normally Two teachers and one attendant will accompany the tour party.	
4. Study tour will be conducted to different regions other than institute is located	1.
(Mountainous Region, Plateaus Region, Coastal Region & Desert Region.)	
5. A comprehensive tour report on the area / region shall be submitted by the students	
with in two weeks on their return from the tour and students have to appear for viva	_
voce examination.	

Assessment of Practical Examination

External Assessment		Internal Assessment	
Units	Maximum Marks	Pattern	Maximum Marks
UNIT I	15		10
		Assignment	

UNIT II	15		
UNITIII	30	Written Test	15
Record file & Viva Voce	15		
Total	75	Total	25

BOOKS RECOMMENTED:

- 1. Sharma, J.P. Prayogatmak Bhoogol Ki Rooprekha (Hindi)
- 2. Singh,R.L.,Elements of Practical Geography.
- 3. Singh,L.R. & Singh,R.N.Map work and practical Geography (Eng./Hindi)
- 4. Hira Lal, PrayogatmakBhoogolKeAdhar (Hindi)
- 5. Tiwari, R.C. and Tiwari, Sudhakar, Abhinav Prayogic Bhoogol.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 4th, Semester – VIII

Course Title:	SURVEY REPORT
Course Code:	A110806R
Credit:	04
Type of Course:	Research Project

Semester-IX

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 5th Semester – IX

Course Title:	PRINCIPLES OF OCEANOGRAPHY
Course Code:	A110901T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	After the end of syllabus students will be able to examine and compare the different ocean and water bodies with their distinct oceanic bottom relief, circulation system and marine deposit.

ſ	Syllabus	No. of
		Lectures

UNIT I	08
Oceanography – nature, scope and development, distribution of land and water,	
cean bottom topography, bottom relief of Pacific, Atlantic and Indian Ocean.	
UNIT II	10
Characteristics of Ocean water: temperature, density and salinity.	
Factors affecting distribution of temperature, density and salinity.	
UNIT III	12
Movement of ocean water: currents - causes and characteristics,	
currents of Atlantic, Indian and Pacific Ocean, Waves, tides and	
theories of origin.	
UNIT IV	10
Ocean deposits and coral reefs: sources, types and distribution of ocean	
leposits, coral reefs –formation, condition of growth, types and theories of origin.	

BOOKS RECOMMENTED:

- 1. Davis, R.J.A. 1986, Oceanography An Introduction of the Marine Environment, Win C. Brown, Iowa.
- 2. King, C.A., Oceanography for Geographers, Edward Arnold Pub.
- 3. Murray, S.J., 1913, Ocean, A General account of the Science of the sea, Thorton Butter Worth, London.
- 4. Siddhartha, K. 1999, Oceanography, A Brief Introduction, Kisalaya Pub. Pvt. Ltd., New Delhi..
- 5. Singh, S. 2002, Physical Geography, Prayag Pub., Allahabad.
- 6. Stahler, A. N. Stahler A.M., 1997, Geography and man's Environment, John Wiley and Sons, New York.
- 7. Thurnman, H.V., 1978, Introduction to oceanography, Charles E. Merrill Pub. Co., London.
- 8. Weyl, P.K. 1970, Oceanography an Introduction of the Marine Environment, John Wiley and Sons Ltd., London.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 5^{th} , Semester – IX

Course Title:	SOCIAL GEOGRAPHY
Course Code:	A110902T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will be able to assess the causal role of Geography in production of different social groups and shaping of their unique features. Students will be efficient and able to evaluate the emerging social spaces, stratification, social well being and issues of social justice through spatial perspective.

Syllabus	No. of
	Lectures

UNIT I	10
Emergence of Social Geography: meaning, scope and significance of social	
Geography, Social Geography as an applied branch of Human Geography,	
relationship of social Geography with other social sciences.	
UNIT II	10
Social well being: Social well-being and its indicators, Human Development Index	
(HDI), inclusive growth, social segregation and ghetto formation, social exclusion.	
UNIT III	10
Gender Issues and social changes: Gender inequality, women empowerment, women	
iteracy and health, social change with special reference to caste and tribal groups,	
Environment & Human health.	
UNIT IV	10
Social Differentiation and Region formation: Spatial distribution of tribes, caste	
Social Differentiation and Region formation. Spatial distribution of thoes, easiq	

Books Recommended:

- 1. Aijazuddin Ahmad, Social Geography.
- 2. Garden, J.F., Geography as a social science.
- 3. Gosal, G.S. & Mukherjee, A.B. religious groups in India.
- 4. Gregory, D. & Urry, J., Social relationship.
- 5. Hammelt, Chris (Ed), social Geography: A Reader.
- 6. Harvey, D, Social justice and the city.
- 7. John, E. (ed) social geography in International Perspective.
- 8. Jones, E & Eyles, J., An introduction to social geography.
- 9. John, E. (ed) Readings in social geography.
- 10. Kaushik, Devesh, Samajik Bhugol, Arjun Publishing House.
- 11. Kulkarni, K.M. geographical patterns of social well-being.
- 12. Maurya, S.D., Samajik Bhugol, Sharda Pustak Bhawan, Allahabad.
- 13. Pacliona, M. (ed) social geography Progress and prospects.
- 14. Paul Knox, social well-being a spatial perspective.
- 15. Pandey, Pushpa & Singh, Komal, Samajik Bhugol, SBPD Publications.
- 16. Rao. M.S.A. Urbanization and social changes.
- 17. Smith, David, social problem and the city.
- 18. Smith, David, The geography of social well-being.
- 19. Sriniwas, M.N., Social changes in Modern India.
- 20. Wagner, P.L. & Mikesell, H.W. (eds) Readings in Cultural Geography.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 5th Semester – IX

Course Title:	DISASTER MANAGEMENT
Course Code:	A110903T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	After the end of this course, it is expected that students will be able to understand various aspect of natural calamities related to disaster impact region.

Syllabus	No. of Lectures
UNIT I	08
Disaster – meaning and concept; hazards, risk and vulnerability. Disaster: its effect on	
different social groups; poverty and vulnerability. Disaster management: prevention,	
preparedness and mitigation.	
UNIT II	10
Disaster – classification of disasters; Natural disaster – earthquake, floods,	
drought and global warming: causes, consequences and mitigation. Natural disaster -	
Examples from India.	
UNIT III	10
Disaster – man made disasters, their types – technological and industrial	
disasters. Social disasters: causes, consequences and mitigation. Man made	
disasters – Examples from India.	
UNIT IV	12
Disaster management – relief and response; reconstruction and rehabilitation. Disaster:	.
strategies for survival, types of strategies. Importance of information in	
disaster management, significance of remote sensing and GIS. Planning in the context	
of disaster management.	

BOOKS RECOMMENDED:

- 1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
- 2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Pub., New Delhi.
- 3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
- 4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi.
- 5.Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi
- 6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
- 7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
- 8. Singh Jagbir (2007) "Disaster Management Future Challenges and Oppurtunities", 2007. Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 5th, Semester – IX

Course Title:	GEOGRAPHY OF RESOURCES
Course Code:	A110903T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will be able to visualize different resource rich and scarce areas in terms of water, forest, marine, mineral and energy resources. It will create the values of resource preservation and sustainable resource utilization among students.

Syllabus	No. of Lectures
UNIT I	08
Nature, scope and significance of geography of resources. Definition and concept of	
natural resources. Classification of resources.	
UNIT II	10
Characteristics of natural resources: Resource conservation and	
management with reference to land and forest resource.	
UNIT III	12
Water resources-Hydrologic Cycle, fresh water resources, surface and	
underground water supplies, problems of water supplies. Marine resources, major fishing	
grounds of the world, fish distribution and exploitation. India's natural resource: water	
resource, conservation and management and its utilization.	
UNIT IV	10
Energy resources-Conventional energy resources - coal, petroleum, non -	
conventional - solar and geothermal energy.	
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BOOKS RECOMMENDED:

- 1. Alexander, J.W., Economic Geography, New Jersey, 1965.
- 2. Ali, S.A., Resources for Future Economic Growth, New Delhi, 1979.
- 3. Behends, William, W., The Dynamics of Natural Resource Utilization in D.Meadow(Ed.), Masaclusetts, 1972.
- 4. Duncan, G., Resource Utilization and Conservation, New York, 1975.
- 5. Earl, D.K., Forest Energy and Economic Development, Oxford, 1975.

- 6. Ranner, G.T., Conservation of Natural Resources, New York, 1942.
- 7. Zimmerman, E.W., Introduction to World Resources (edited by H.L. Honker, The Ohio StateUniversity, New York, 1964.
- 8. Zimmermann, E.N., World Resources & Industries, New York.

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Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th, Semester – IX

Course Title:	REGIONAL PLANNING & DEVELOPMENT
Course Code:	A110904T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	After the end of this syllabus, students will be able to demarcate the difference between formal and functional planning regions. They are expected to efficiently formulate, appreciate and apply specific theories and plans for regional growth and development.

o. of	Syllabus
ctures	
08	UNIT I
	Concept and Types of regional planning; City as unit of regional planning;
	Approaches to regional planning; Historical development of regional planning.
12	UNIT II
	Methodology and techniques of regional planning; Principles of
	rationalization; Indicators of development and their data sources; Measure of regional
	development and disparities; Planning process- Sectoral and spatial planning; Short-
	term and long-term perspective of planning: Multi regional and Multilevel planning.
	g,g,g,
10	UNIT III
	Regional development strategies: Export base theory, convergence
	theory, Growth poles and growth centers in regional development; Industrial
	dispersal, identification of planning regions; Regional planning strategies for
	development and disparities; Planning process- Sectoral and spatial planning; Short-term and long-term perspective of planning; Multi regional and Multilevel planning. UNIT III

UNIT IV

Role of Urban centers in Regional Planning; Urban scenario in India; City regions and city problems; Problems of slum areas; Strategies for urban planning; Metropolitan planning; Preparation of master plans, City region planning.

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Books Recommended

- 1. Chandna, R. C. (2000): Regional Planning: Comprehensive Text Kalyani Publishers.New Delhi.
- 2. Chaudhuri, J. R. (2001): An Introduction to Development and Regional Planning with special reference to India. Orient Longman, Hyderabad.
- 3. Cowen, M.P. and Shenton, R.W. (1996): Doctrines of Development. Routledge, London.
- 4. Doyle, T. and McEachern, D. (1998): Environment and Politics. Routledge, London.
- 5. Friedmann, J. (1992): Empowerment: The Politics of Alternative Development. Blackwell, Cambridge MA and Oxford.
- 6. Friedmann, J. and Alonso, W. (ed.) (1973): Regional Development and Planning. The MITPress, Mass.
- 7. Hettne, B.; Inotai, A. and Sunkel, O. (eds.) (1999-2000): Studies in the New Regionalism.Vol. I-V. Macmillan Press, London.
- 8. lsard, W. (1960): Methods of Regional Analysis. MIT Press, Cambridge, MA.
- 9. Kane, M. and William M.K.T.(2007): Concept Mapping for Planning and Evaluation, SagePublications, London.
- 10. Kuklinski, A. R. (1972): Growth Poles and Growth Centers in Regional Planning. Moutonand Co., Paris.
- 11. Kuklinski, A.R. (ed.) (1975): Regional Development and Planning: InternationalPerspective, Sijthoff-Leydor.
- 12. Leys, C. (1996): The Rise and fall of Development Theory. Indian University Press, Bloomington, and James Curry, Oxford.
- 13. Mahapatra, A.C. and Pathak, C. R. (eds.) (2003): Economic liberalization and RegionalDisparities in India. Special Focus on the North Eastern Region, Star Publishing House, Shillong.
- 14. Misra, R. P. (ed.) (1992): Regional Planning: Concepts, Techniques, Policies and CaseStudies 2ndedition. Concept Publishing Company. New Delhi.
- 15. Misra, R.P, and Natraj, V.K. (1978): Regional Planning and National Development. Vikas, New Delhi.
- 16. Misra, R.P., Sundaram, K. V. Pradasa Rao, V. L. S. (1976): Regional DevelopmentPlanning in India. Vikas Publishers, New Delhi.

- 17. Moseley, M.J., (1974): Growth Centres in Spatial Planning. Pergamon Press, Oxford.
- 18. Narman, A. and Karunanayake, K. (eds.) (2002): Towards a New Regional and LocalDevelopment Research Agenda. Dept. of Geography, Goteborg University (Sweden), series B, Nol00 and Centre for Development Studies, University of Kelaniya (Sri Lanka), No. 1.
- 19. Norgaard, R.B. (1994): Development Betrayed. The End of Progress and a CoevolutionaryRevis1onng of the Future, Routledge, London.
- 20. Pathak, C.R. (2003): Spatial Structure and Processes of Development in India. RegionalScience Association. Kolkata.
- 21. Sanyal, B.M. (2001) Decentralised Planning: Themes and Issues. Concept Publishing Company, New Delhi.
- 22. Sharma P.V Rao, V L. and Pathak C. R (eds.) (2000): Sustainable Regional special reference to Andhra Pradesh), Regional Science. Association, Kolkata and school of Economics, Andhra University. Vishakapatnam.
- 23. Sen, A. (1999). Development as Freedom. Oxford University press, Oxford.
- 24. Sen, A. and Dreze, J. (eds.) (1996): Indian Development: Selected Regional Perspectives. Oxford University Press, Oxford.
- 25. Smith, D. and Narman, A. (eds.) (199)' Development Theory and Practice CurrentPrespectives on Development and Development co-opreation. Longman, London.
- 26. Stohr, W. B. and Taylor, D.F.R. (eds.) (1981. Development from Above and Below? The Dialectics of Regional Planning in developing countries. John and sons Chichester.
- 27. Sundaram, K. V. (1997) the Decentralized Multilevel Planning; Principles and Practice (Asian and African Experiences). Concept publishing company, New Delhi.
- 28. Sundaram, K. V, (2004) thetrodden Path: Essays on Regional and Micro Level Planning. Anaunya Publications., New Delhi.
- 29. Toye, J. (1987): Dilemmas of Development. Reflections on the Counterrevolution in Development Theory and Policy. Basil Blackwell, Oxford.
- 30. Verhelst, T. (1990): No Life without Roots-Culture and Development. Zed books, London.
- 31. Wprld Bank (2000): Attacking Poverty. World Development. Report 2000-01, The World bank and Oxford University Press, New York, See website www.worldbank.org/poverly/warpoverty
- 32. World Bank (2000): Entering the 21st Century. World Development Report. The World Bank and Oxford University Press, New York and Oxford,

33. Yugandhar, B. N. and Mukherjee, A. (eds.) 1991): Readings in De-centralized Planning (with special reference to district planning), 2 vols. Concept Publishing., NewDelhi.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th, Semester – IX

Course Title:	TRANSPORT GEOGRAPHY
Course Code:	A110904T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	After the completion of this syllabus, students will be able to describe in detail the basic concept of transport geography and the importance of transport geography.

Syllabus	No. of Lectures
UNIT I	08
Nature, scope, significance, history and development of transport geography.	
Factors associated with the development of transport system-Physical, economic,	
social, cultural and institutional. Evolution of transport network.	
UNIT II	12
Characteristics and relative significance of different modes of transport:	
Railways, Roads, Airways and waterways. Accessibility and flow models, network	
structure, graph theoretic measures, models of network change, linear programming	
and gravity models.	
UNIT III	10
Theories related to freight rate structure, bases of spatial interaction:	
complementarily, intervening opportunity, transferability and potential models of	
spatial interaction. Transport system in India: Railways, Roads, airways and	
waterways, patterns of movement, Movement geometry.	

UNIT IV	10
Transport of goods in developed and developing countries, Urban	
transportation-growth and problems. Transport and environmental degradation,	
Alternatives to transport system in Megacities of India, National Highway	
Development and planning in India. Transport policy and planning.	

Suggested Readings:

- 1. Chorley, R.J. and Hagget P; Models in Geography, Methuen & Co.London, 1967.
- 2. Hurst, M.E. (ed): Transportation Geography, McGraw Hill, 1974.
- 3. Hagget P. and Chorley R.J.: Network Analysis, Edward Arnold, London, 1968.
- 4. Hay A: Transport Economy, Macmillan, London, 1973.
- 5. Hoyle, B.S. (ed); Transport and Development, Macmillan, London, 1973.
- 6. Raza M. and Agrawal Y.P.: Transport Geography of India, Concept, New Delhi, 1985.
- 7. Robinson H. and Bamford G.G.: Geography of Transport, Macdonald & Evans, London, 1978
- 8. Taffe, D.J. and Gauthier (Jr.) H.L.; Geography of Transportation, Prentice Hall, Englewood Cliffs, N.J., 1973.
- 9. White H.P. and Senior M.L.: Transport Geography, Longman, London, 1953.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th, Semester – IX

Course Title: TOPOGRAPHICAL MAPS, WEATHER MAPS AND FIELD SURVEY

Course Code: A110905P

Credit: 04

Type of Course: Practical

Maximum Marks: Internal-25
External-75

Syllabus	No. of
	Lectures
UNIT I	08
Topographical maps: scale, conventional signs and interpretation of toposheets.	

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Assessment of Practical Examination

External Assessment		Internal Assessment	
Units	Maximum Marks	Pattern	Maximum Marks
UNIT I	20		
		Assignment	10
UNIT II	20		
UNITIII	20		
		Written Test	15
Record file & Viva	15		
Voce			
Total	75	Total	25

Books Recommended:

- 1. Sharma, J.P. Prayogatmak Bhoogol Ki Rooprekha (Hindi)
- 2. Singh, R.L., Elements of Practical Geography.
- 3. Singh,L.R. & Singh,R.N.Map work and practical Geography (Eng./Hindi)
- 4. Hira Lal, PrayogatmakBhoogolKeAdhar (Hindi)
- 5. Tiwari, R.C. and Tiwari, Sudhakar, Abhinav Prayogic Bhoogol.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 5th, Semester – IX

Course Title:	VILLAGE REPORT
Course Code:	A110906R
Credit:	04
Type of Course:	Research Project

Semester-X

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography, Year 5^{th} , Semester – X

Course Title:	MODERN GEOGRAPHICAL THOUGHT
Course Code:	A111001T
Credit:	04
Type of Course:	Theory
Maximum Marks:	Internal-25 External-75
Course Outcomes:	At the end of this course students will be able to know and apply the recent theoretical and philosophical aspects of Geography.

Syllabus	No. of
	Lectures
UNIT I	08
Development of Geography in second half of the 20th century; Concept of	
Paradigm; Paradigm shift, Positivism & Logical Positivism, Quantitative Revolution,	
Models, System Analysis in Geography.	
UNIT II	12
Reactions to Quantitative Revolution, Behavioral Geography - Cognition,	
Perception, Mental Maps, Decision making and Behavior, Time Space Geography,	
Humanistic Geography - Idealist & Phenomenological Approaches.	
UNIT III	08
Radical Geography, Structuralism, Realism, Functionalism, Welfare	
Geography, Post - Modernism.	
UNIT IV	10
Modern Developments, Applied Geography and Relevance, Debate, Spatial	
Inequality and Regional Imbalances, Feminist Geography, G.I.S. as a tool of	
geography, Future of Geography.	

Books Recommended:

- 1. Adams, P., Steven, H. and Karel, T. (eds.) (2001): Texture of Place. Exploring HumanisticGeographies, University of Minnesota Press, Minneapolis.
- 2. Anderson, K., Domosh, M., Pile, S. and Thrift, N. (eds.) (2003): Handbook of Cultural Geography. Sage Publications, London.

- 3. Barnes, T. and Gregory, D. (eds.) (1997): Readings in Human Geography: The Poetics and Politics of Inquiry. Arnold, London.
- 4. Bunkse, E. V. (2004): Geography and the Art of Life. John Hopkins University Press, Baltimore.
- 5. Buttimer, A. (1971): Society and Milieu in the French Geographic Tradition. Rand McNally, Chicago.
- 6. Daniels, P., Bradshaw, M., Shaw, D. and Sidaway, J. (2000): An Introduction to Human Geography. Issues for the 21st Century. Prentice Hall, London.
- 7. Dear, M. J. and Flusty, S. (2002): The Spaces of Post modernity: Readings in Human Geography. Blackwell Publishers, Oxford.
- 8. Dikshit, R. D. (2004): Geographical Thought. A Critical History of Ideas. Prentice-Hall of India, New Delhi. (In English and Hindi).
- 9. Doel, M. (1999): Poststructuralist Geographies. The Diabolical Art of Spatial Science. Edinburgh University Press, Edinburgh
- 10. Gaile, G. and Wilmott, C. (eds.) (2003): Geography in America at the Dawn of the 21stCentury. Oxford University Press, Oxford and New York.
- 11. Harvey, D. (1969): Explanation in Geography. Arnold, London.
- 12. Harvey, M. E. and Holly, P.B. (2002): Themes in Geographic Thought. Rawat Publications. Jaipur and New Delhi.
- 13. Hartshorne (1959) Perspective on the Nature of Geography, Rand Macnally& Co. London.
- 14. Hubbard, P., Kitchin, R., Bartley, B. and Fuller, D. (2002): Thinking Geographically: Space, Theory and Contemporary Human Geography. Continuum, London.
- 15. James, P.E. 1980. All Possible Worlds. A History of Geographical Ideas. Ist Edition, Sachin Publication Jawahar Nager, Jaipur.
- 16. Johnston, R, Gregory D, Pratt G, Watts M. and Whatmore S. (2003): The Dictionary of Human Geography. Blackwell Publishers, Oxford. 5th edition.
- 17. Johnston, R.J. (1985): The Future of Geography, Metheun and Company Ltd., New York.(2003 edition published).
- 18. Johnston, R.J. and Sidaway, J.D. (2004): Geography and Geographers. 6th edition, Edward Arnold, London.
- 19. Kapur, A. (ed.) (2001): Indian Geography Voice of Concern. Concept Publishing. Company, New Delhi.
- 20. Mathews, J. A. and Herbert, D. T. (eds.) (2004): Unifying Geography. Common Heritage, Shared Future. Routledge, London.
- 21. Peet, R. (1998): Modern Geographical Thought. Blackwell Publishers Inc, Massachusetts.
- 22. Sauer, C. O. (1963): Land and Life. University of California Press, Berkeley.

- 23. Singh, R. L. and Singh, Rana P.B. (eds.) (1990): Literature and Humanistic Geography. National Geographical Society of India, BHU, Varanasi, Publication number 37
- 24. Singh, R. L. and Singh, Rana P.B. (eds.) (1992): The Roots of Indian Geography: Search and Research. National Geographical Society of India, B.H.U., Varanasi, Publication number 39.
- 25. Singh, Ravi S (ed.) 2009. Indian Geography: Perspectives, Concerns and Issues. Jaipur/NewDelhi: Rawat Publications
- 26. Soja, E. (1989): Post-modern Geographies. Verso Press, London. Reprinted 1997: Rawat Publications, Jaipur and New Delhi.
- 27. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company Ltd. And Company, London.
- 28. Tuan, Yi-Fu (1977): Space and Place. The Perspective of Experience. Edward Arnold, London.

Department of Geography

V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th, Semester – X

Course Title:	POLITICAL GEOGRAPHY
Course Code:	A111002T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	Students will be able to critically examine the geographical bases of political studies. They will be able to evaluate and correlate different theories with contemporary geopolitical and geo-strategic issues.

Syllabus	No. of
·	Lectures

UNIT I	08
Meaning, scope, approaches, Development of Political Geography; Concept of	
State and Nation; Spatial factors of State; Buffer State, core area, ecumene, Capital	
city, frontiers and boundaries.	
UNIT II	10
Concept of geo-strategy; World geopolitics in changing perspectives- colonialism	
to federalism; Geostrategic ideas of Mahan, Mackinder, Spykman and their relevance	
in the modern world.	
UNIT III	12
Geopolitical significance of the Indian Ocean; Role of third world	
countries; Political geography and regional co-operation; Geopolitical study of USA,	
East Asia and South Asia. Strategic important of Indian Ocean.	
UNIT IV	10
Nature and scope of electoral geography; Geography of elections with special	
reference to India; Interstate Issues, Insurgence in Border States; Emergence of new	
States.	

Suggested Readings

- 1. Alexander, L.M.: World Political Patterns, Ran McNally, Chicago, 1963.
- 2. De Blij H.J. and Glassner, Martin: Systematic Political Geography, Jolin Wiley, N.Y1968.
- 3. Deshpande, C.D.: India: A Regional Interpretation, NorthernBook Centre, New Delhi, 1992.
- 4. Dikshit, R.D.: Political Geography: A contemporary Perspective, Tata McGraw Hill, New Delhi, 1996.
- 5. Dikshit, R.D.: Political Geography: A Century of Progress, SageNew Delhi, 1999.
- 6. Fisher, Charles: Essays in Political Geography, Methuen, London, 1968.
- 7. John R. Short: An Introduction to Political Geography, Routledee.
- 8. Moddie A.E.: Geography behind Politics, Hutchinson, London, 2000.
- 9. Pounds, N.J.G.: Political Geography McGraw Hill, N.Y., 1972.
- 10. Prescott, J.R.V.: The Geography of Frontiers and Boundaries, Aldine, Chigago.
- 11. Panikkar, K.M.: Geographical Factors in Indian Hlistory, 2 Vols, Asia Publishing House, Bombay, 1959.
- 12. Sukhwal, B.L.: Modern Political Geography of India, SterlingPublisher, New Delhi, 1968.
- 13. Taylor, P: Political Geography, Longman, London, 1985.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P.

M.A./M.Sc., Geography,	Year 5 th , Semester – X
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Course Title:	SETTLEMENT GEOGRAPHY
Course Code:	A111002T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcome:	After the end of this course, students will be able to acquire clear concepts of rural and urban settlements. Inculcate a greater understanding of man-land relationship which is crucial for sustainable development.

Syllabus	No. of
	Lectures
UNIT I	08
Nature, scope, development and approaches of settlement geography, Definition and	
characteristics of settlements, Rural-urban continuum. Histogenesis of settlements:	
Spatio- temporal dimensions, distribution, size and spacing of settlements.	
UNIT II	12
Types, forms and patterns of rural settlements. functional classification of	
rural settlements, morphology of rural settlements. Central places and rural service	
centers: their nature, hierarchy and functions. Service centers as growth points. Rural-	
urban fringe- structure, characteristics and functions.	
UNIT III	10
House types and their spatial patterns. Origin, evolution, size, socio-	
spatial structure of Indian villages. Social issues in rural settlements-poverty, housing	
deprivation, and inequality. Environmental issues in rural settlements-water supply,	
sanitation, drainage and health hazards. Planning of rural settlements with special	
reference to India.	
UNIT IV	10
Meaning and scope of Urban Geography, Origin and Development of cities,	
recent trends in urbanization. Rural-Urban fringe, Umland, suburb and satellite,	
Morphology and Land use of Urban Settlements, Urban problems, Planning of Urban	
Settlements and master plan.	

Suggested Readings:

- 1. Pacione, Michael, 1983: Progress in Urban Geography, Croom Helm, London.
- 2. Pacione, M., 1984: Rural Geography, Harper and Row, London.
- 3. Park, Robert E., Burgess, Ernest & McKenzie, Roderick D. (eds), 1925: The City, The Uni. of ChicagoPress, Chicago, pp. 47-62.
- 4. Prased, A. 1973: Chhotanagpur: Geography of Rural Settlement, Ranchi.Rao, B.P., 1971: Vishakhapatnam: A Study in Geography of Port Town, NGSI, Varanasi, 139 pp.
- 5. Rao, V.L.S.P., 1964: Towns of Mysore State, Indian Stastistical Institute (ISI) & Asia Publishing House.
- 6. Raza, Moonis (ed) 1979: A Survey of Research in Geography, 1969-1972, ICSSR, Allied Publishers PrivateLtd., Bombay.
- 7. Reilly, William J., 1929: Methods for the Study of Retail Relationships, Research Monograph No. 4, Bureauof Business Research, Uni. of Texas.
- 8. Reilly, William J., 1931: The Law of Retail Gravitation, New York.
- 9. Robson, B.T., 1969: Urban Analysis: A Study of City Structure, Cambridge University Press, Cambridge.
- 10. Robson, B.T., 1975: Urban Social Areas, Oxford University Press, London.
- 11. Robson, William, A. (ed) 1957: Great Cities of the World, Macmillan, New York.
- 12. Rubenstein, James M. and Robert S. Bacon, 1990: The Cultural Landscape, Prentice Hall of India Pvt. Ltd.New Delhi, 502 pp.
- 13. Saxena, Sudha, 1970: Trends of Urbanization in Uttar Pradesh, Satish Book Enterprise, Agra.
- 14. Sen, L.K. et al., 1971 :Planning Rural Growth Centres for Integrated Area Development, A Study inMiryalguda Taluka, NICD, Hyderabad.
- 15. Sen, L.K. et al., 1975: Growth Centres in Raichur: An Integrated Area Development Plan for a District inKarnataka, NICD, Hyderabad.
- 16. Sharma, R.C., 1972: Settlement Geography of the Indian Desert, Kumar Brothers, New Delhi, 199 pp.
- 17. Singh, Hari Har, 1972: Kanpur: A Study in Urban Geography, NGSI, Varanasi.
- 18. Singh, Jagadish 1979: Central Places and Spatial Organisation in a Backward Economy: Gorakhpur Region-A Study in Integrated Regional Development, Uttar Bharat Bhoogol Parishad, Gorakhpur, 147 pp.
- 19. Singh, L.R., 1965: The Tarai Region of U.P.: A Study in Human Geography, Ramnarainlal Beni Prasad, Allahabad.
- 20. Singh, R.B., 1975: Rajput Clan Settlements in Varanasi District, NGSI, Varanasi, 134 pp.
- 21. Singh, R.L. 1955: Banaras: A Study in Urban Geography, Nand Kishore & Bros. Varanasi.
- 22. Singh, R.L., 1964: Bangalore: An Urban Survey, NGSI, Varanasi,

- 23. Singh, R.L. (ed), 1971: India: A Regional Geography, NGSI, Varanasi, 992 pp.
- 24. Singh, R.L. (ed) 1972: Rural Settlements in Monsoon Asia, NGSI, Varanasi,510 pp.
- 25. Singh, R.L., 1973: Urban Geography in Developing Countries, Proceedings of the IGU VaranasiSymposium, NGSI, Varanasi, 371 pp.
- 26. Singh, R.L. & Singh, K.N. (ed), 1975: Readings in Rural Settlement Geography, NGSI, Varanasi,
- 27. Singh, R.L., K.N. Singh & R.P.B. Singh, (eds) 1976: Geographic Dimensions of Rural Settlements, Proceedings of the IGU Varanasi Symposium, NGSI, Varanasi, 288+ xxii pp.
- 28. Singh, R.L. & Rana P.B. Singh, (eds) 1978: Transformation of Rural Habitat in Indian Perspective, AGeographic Dimension, NGSI, Varanasi, 200 pp.
- 29. Singh, R.L. and Rana P.B. Singh, 1978: Spatial Planning in Indian Perspective: An Approach TowardsTheory and its Application, NGSI, Varanasi, 50 pp.
- 30. Singh, R.L. & Rana P.B. Singh, (eds) 1979: Place of Small Towns in India, NGSI, Varanasi,175 pp.
- 31. Singh, Rana P.B., 1977: Clan Settlements in the Saran Plain (Middle Ganga Valley), A Study in CulturalGeography, NGSI, Varanasi,
- 32. Singh, R.Y., 1978: The Malwa Region: Rural Habitat System, Structure and Change, NGSI, Varanasi,
- 33. Singh, R.Y., 1994: Geography of Settlements, Rawat Publications, Jaipur,
- 34. Singh, Savindra 1991: Environmental Geography, PrayagPustak Bhawan, Allahabad,
- 35. Singh, S.B. (ed.), 1995: Emerging Frontiers of Urban Settlement Geography, M.D. Publications Pvt. Ltd.New Delhi,
- 36. Singh, U., 1962: Allahabad, A Study in Urban Geography, NGSI, Varanasi.
- 37. Sinha, B.N. &T.N.Achuta Rao, 1968: Urban Studies: An Aid to Research, Karnataka Uni.Dharwar,Smailes, A.E., 1962: The Geography of Towns, Hutchinson University Library, London.
- 38. Sovani, N.V., 1966: Urbanisation and Urban India, Asia Publishing House, Bombay.
- 39. Taneja, K.L., 1971: Morphology of Indian Cities, NGSI, Varanasi,
- 40. Taylor, G., 1964: Urban Geography, Methuen, London.
- 41. Taylor, G., 1965: Geography in the Twentieth Century, Methuen and Co. Ltd. London.
- 42. Thacker, M.S., 1965: India's Urban Problem, Uni. of Mysore Press, Mysore.
- 43. Thompson, W.S., 1948: The Growth of Metropolitan Districts in the United States 1900-1940, Washington, D.C.
- 44. Thunen, J.H. von 1826: Der IsolierteStaat in Beziehung auf Landwirtschaft und National okonomie(Rostock, 1826).

- 45. Tiwari, R.C., 2018: Settlement Geography, PravalikaPrakashanAllahabad,
- 46. Turner, R. 1962: India's Urban Future, Oxford University Press, Bombay.
- 47. Ullman, E.L. and M.F. Dacey, 1969: The Economic Base of American Cities, Uni. of WashingtonPress,Seattle, Washington.
- 48. Walker, Mabel L., 1938: Urban Blight and Slums, Harvard City Planning Studies, Vol. 12, Harvard Uni.Press.
- 49. Weber, Alfred, 1929: Theory of the Location of Industries (Translation of the original German edition of 1909), Uni, of Chicago Press, Chicago.
- 50. Wingo et al., 1963: Cities and Space: The Future Use of Urban Land, John Hopkin Press, Baltimore.
- 51. Yeats, M.H. and B.J.Garner, 1971: The North American City, Harper and Row, London.
- 52. Zipf, George K., 1941: National Unity and Disunity, Principia Press, Bloomington.
- 53. Zipf, George K., 1949: Human Behaviour and the Principle of Least Effort, Addison-Wesley Press, Cambridge and New York.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th ,Semester – X

Course Title:	AGRICULTURAL GEOGRAPHY
Course Code:	A111003T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	At the end of this course students will be able to evaluate the agricultural dynamics which includes land use, agricultural systems and major drawbacks in agricultural development.

Syllabus	No. of
	Lectures

UNIT I	08
Meaning, scope, approaches and development of agricultural Geography;	
Origin and dispersal of agriculture, major agricultural hearths; Diffusion of	
agricultural innovations.	
UNIT II	12
Determinants of agriculture- physical, economic, political, technological,	
socio-cultural; land reforms, measurements of agricultural productivity, cropping	
intensity, Cropping pattern: methods of delineating crop combination regions(Weaver	
and Rafiullah).	
UNIT III	10
Theories of agricultural location: Von Thunen's model and its	
modification- Sinclair's approach; Whittlesey's classification of agricultural regions;	
Agricultural typology, Agro-climatic regions of India. Land capability classification	
and land use planning.	
and rand use planning.	
UNIT IV	10
Recent trends in Indian agriculture- Green revolution in India and its impact on	10
Indian agriculture, white revolution; concept of second green revolution in India,	
Problems of Indian agriculture. Measures for Agricultural Development.	
a rootemis of matan agriculture, moustaces for right-distant Development.	

Suggested Readings

- 1. Baylist smith T.P.: The Ecology of Agricultural System, Cambridge University Press, London, 1987.
- 2. Gregor, HP. Geography of Agriculture, Prentice Hall, N.Y., 1970.
- 3. Mannion, A.M.: Agriculture and Environmental Change, JohnWiley, London. 1971.
- 4. Morgan, W.B. and Norton, R.J.C.: Agricultural Geography.Methuen, London, 1971.
- 5. Morgan, W.B.: Agriculture in the Third World A SpatialAnalysis, West view Press, Boulder, 19780
- 6. Sauer, C.O.: Agricultural Origins and Dispersals, M.I. Press, Westview Press, Mass, USA, 1969.
- 7. Singh J. and Dhillon S S: Agricultural Geography, Tata MeGrawHill Pub. New Delhi, 1988.
- 8. Tarrant, J.R.: Agricultural Geography, Wiley, N.Y., 1974.

$$\label{eq:continuous_problem} \begin{split} & Department \ of \ Geography \\ & V.B.S. \ Purvanchal \ University, \ Jaunpur, \ U.P. \\ & M.A./M.Sc., \ Geography, \ Year \ 5^{th} \ \ , \ Semester - X \end{split}$$

Course Title:	INDUSTRIAL GEOGRAPHY
Course Code:	A111003T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25
Course Outcomes:	External-75 After completion of this course, the student will be able to assess
Course Outcomes.	the role of location and place in development and distribution of
	industries, importance of industrial corridors and site specific
	problems facing by different industrial regions.

Syllabus	No. of
	Lectures
UNIT I	08
Nature, Scope and recent developments in industrial Geography; Factors of	
industrial location; Centralization and decentralization of Industries, Horizontal,	
vertical and diagonal linkages of modern industries.	
UNIT II	12
Theories and models of industrial location; Weber, Losch and Hoover;	
Distribution and spatial pattern of major industries, Major industrial regions of the	
World.	
	10
UNIT III	10
Historical review of Indian industrialization since 1947; Evolution of	
industrial regions in India; Development of small scale and cottage industries;	
Multinational corporations and Industrial policy of India.	
UNIT IV	10
Problems of industrial development; industrial development and environmental	
degradation, Industries and economic development; Impact of globalization on	
industrial development; Industrial decentralization and its impact on urban fringe.	

Books Recommended

- 1. Alexander, J.W.; Economic Geography, Prentice Hall, Englewood, Cliffs
- 2. Alexanderson, C: Geography of Manufacturing, Prentice Hall, Bombay, 1967.
- 3. Hoover, E.M.: The Location and Space Economy, McGraw Hill, N.W., 1948.
- 4. Isard, W; Methods of Regional Analysis, the Technology Press orM.LT. & John Wiley & Sons, N.Y., 1956.
- 5. Miller, E: A Geography of Manufacturing, Prentice Hall, Englewood Cliffs, N.J., 1962.

6. Weber, Alfred: Theory of Location of industries, ChicagoUniversity Press, Chicago.

$$\label{eq:continuous_problem} \begin{split} & Department \ of \ Geography \\ & V.B.S. \ Purvanchal \ University, \ Jaunpur, \ U.P. \\ & M.A./M.Sc., \ Geography, \ Year \ 5^{th} \ \ \ \ , Semester - X \end{split}$$

Course Title:	URBAN GEOGRAPHY
Course Code:	A111004T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	This course helps to evaluate the structure, morphology, pattern and dimensions of changes in urban places and cities.

Syllabus	No. of Lectures
UNIT I	08
Meaning, scope, approaches and evolution of urban geography. Origin and growth of	
urban settlements. The models of urban growth: concentric zone, sectoral and	
multinuclei.	
UNIT II	12
Bases and process of Urbanization and urban development, Urban growth,	
urban hierarchy and rank size rule, Urban economic base: Occupational structure :	
basic and non-basic functions, Functional classification of cities, Morphology and	
land use, C.B.D., Commercial, Residential, Industrial and Institutional areas and	
modern urban landscape.	

UNIT III The urban profile, Demographic structure and characteristics of urban population. Movement of population within and beyond corporate limit. City as central place, Umland, Rural-Urban fringe.	10
UNIT IV Urban problems-Urban poverty, Urban renewal, Urban sprawl, Slums, transportation, Housing, Urban pollution, Solid waste, Urban crime and environmental health. Urban policy and planning, planning for new wards, Satellite towns, Green belt, Garden cities, megalopolis and conurbation.	10

Suggested Readings:

- 1. Berry, B.J.L. and Horton, F.F.: Geographic Perspectives on UrbanSystems, Prentice Hall, Englewood cliffs, N.J. 1970.
- 2. Dickinson, R.E. City and Region, Routledge, London, 1964.
- 3. Gibbs, J.P.: Urban Research Methods, Van Nostrand Co. Princeton, N.J. 1961.
- 4. Hall P. Urban and Regional Planning, Routledge, London, 1992.
- 5. Kundu, A.: Urban Development and Urban Research in India, Khanna Publication, 1992.
- 6. Rao, V.L. S.P.: Urbanisation In India: Spatial Dimensions, Concepts Publishing Co. New Delhi.
- 7. Smailes, A.E.: The Geography of Towns, Hutchinson, London, 1953.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th, Semester – X

Course Title:	RESEARCH METHODOLOGY
Course Code:	A111004T
Credit:	04
Type of Course:	Theory(Optional)
Maximum Marks:	Internal-25 External-75
Course Outcomes:	After completion of this course, the student will be able to assess the role of research methodology in research work.

Syllabus	No. of Lectures
TINITE	
UNIT I	10
Introduction to research in Geography: Concept and significance of research	
in geography; Philosophy and methods; Naturalism and anti-naturalism; realism,	
idealism and Behaviouralism.	
UNIT II	10
Scientific Research; Inductive and deductive approaches; Research design,	
Formulation of research problem; Development and testing of hypothesis; Techniques	
of data collection, Sampling and field survey.	
UNIT III	10
Qualitative research: Qualitative research design; Case study;	
Ethnography; Phenomenology and participatory research	
UNIT IV	10
Data Analysis, interpretation and report writing: Data classification and	
tabulation; Data analysis and interpretation, writing thesis, project report and research	
paper.	

Books Recommended

- 1. Ahuja, R. (2001): Research Methods, Rawat Publications, Jaipur and New Delhi.
- 2. Bhattacharyya, D. K. (2005) Rescarch Methodology, Excel Books, New Delhi
- 3. Blackburn, J. and Holland, J. (eds.) (1998); Who Changes? Institutionalizing Participation inDevelopment. IT Publications, London.
- 4. Blaxter, L, Hughes, C. and Tight, M. (1996); How to Research. Open University Press, Buckingham.
- 5. Denzin, N. K. and Lincoln, Y.S., (cds.) (2000): Handbook of Qualitative Research. ThousandOaks CA. Sage Publications.
- 6. Dikshit, R. D. (2003): The Art and Science of Geography: Integrated Readings. Prentice-Hallof India, New Delhi.
- 7. Dorling, D. and Simpson, L. (cds.) (1999): Statistics in Society. Edward Arnold, London.
- 8. Flowerdew, R. and Martin, D. (eds.) (1997); Methods in Human Geography. A Guide forStudents Doing a Research Project. Longman, Harlow.

- 9. Hay, I. (cd.) (2000): Qualitative Research Methods in Human Geography. Oxford UniversityPress, New York.
- 10. Henn, M., Mark W., and Nick F. (2006): A Short Introduction to Social Research, Vistaar Publications, New Delhi
- 11. Eyles J. and Smith D. M. (1988): Qualitative Methods in Human Geography, Polity Press, Dales Brewering Cambridge.
- 12. Kitchin, R. and Tate, N., (2001): Conducting Research into Human Geography. Theory, Methodology and Practice. Prentice-Hall, London.
- 13. Kitchin, R. and Fuller, D., (2003): The Academic's Guide to Publishing, Vistaar Publications, New Delhi
- 14. Limb, M. (2001): Qualitative Methodologies for Geographers. Issue and Debates. EdwardArnold, London.
- 15. Lofland, J. and Lofland, LH. (1995): Analysing Social Setting. A Guide to QualitativeObservation and Analysis. Wadsworth, Belmont, CA.
- 16. Longley, P., Goodchild, M.F., Maguire, D. and Rhind, D. (1999): Geographic InformationSystems. Principles, Techniques, Management, Applications. John Wiley and Sons, New York.
- 17. Maso, I., Atkinson, P.A. Delamont, S. and Verhoeven, J.C. (eds.) (1995): Openness inResearch. The 'Tension between Self and Other. Van Gorcum, Assen, Netherlands.
- 18. Mikkelsen, B. (2005): Methods for Development Work and Research: A New Guide for Practitioners. Sage Publications, London.
- 19. Mukherjee, N. (1993): Participatory Rural Appraisal: Methodology and Application. ConceptPublishing Company, New Delhi.
- 20.0' Leary, Z. (2005): The Essential Guide in Doing Research, Vistaar Publications, New Delhi
- 21. Pacione, M., (cd.) (1999): Applied Geography: Principle and Practice. Routledge, London.
- 22. Parsons, T, and Knight, P. G., (1995); How to Do Your Dissertation in Geography and RelatedDisciplines. Chapman and Hall, London.
- 23. Patrick M. and Chapman S. (1990): Research Methods(Third Edition), Routledge, London
- 24. Peet, R. and Thrift, N. (cd.) (1989/2002): New Models in Geography (2 vols.). RawatPublishers., Jaipur and New Delhi.
- 25. Rachel, P. et al. (2001): Introducing Social Geographic. Amold Hodder Group, London, andOxford University Press, Oxford.
- 26. Robson, C. (1993); Real World Research. A Resource for Social Scientists and Practitioners-Researchers, Blackwell Publishers, Oxford.
- 27. Rogers, A. and Viles, H. A. (2003): The Student's Companion to Geography. BlackwellPublishers, Oxford, Indian reprint available.

- 28. Sheskin, Ira, M. (1987); Survey Research for Geographers, Scientific Publishers, Jodhpur.
- 29. Silverman, D. (1993); Interpreting Qualitative Data, Methods for Analysing Talk, Text and Interaction. Sage Publications, London,
- 30. Sharma P.R., Yadava, R.S. and Sharma, V.N., (2011), Interdisciplinary ResearchMethods: Concepts and Studies, RK. Books Publishers, New Delhi.
- 31. Wolcott, H. (1995): The Art of Fieldwork. AltaMira Press, Walnut Creek, CA
- 32. Wright, D.B. (1997): Understanding Statistics. An Introduction for the Social Sciences. SagePublications, London.

Department of Geography V.B.S. Purvanchal University, Jaunpur, U.P. M.A./M.Sc., Geography, Year 5th, Semester – X

Course Title:	PROJECTIONS, DIAGRAMS AND FIELD SURVEY
Course Code:	A110905P
Credit:	04
Type of Course:	Practical
Maximum Marks:	Internal-25
	External-75

Syllabus	No. of Lectures
UNIT I Projections- Classification, properties, choice, merits and demerits of projections. Drawing of the following map projections by using mathematical methods: Gall's, Mercator's, Mollweide's and interrupted Mollweide's projection, Sinusoidal and Interrupted sinusoidal projection, Lambert's conical equal area projection and International projection.	12

UNIT II	12
Diagrams- Cartographic Representation of Statistical Data, Water	
surplus/Balance graph, Rainfall dispersion diagram, Traffic flow cartogram,	
Distribution maps- Isopleth, choropleth and multiple Dots, landuse maps, Locational	
quotient, Co-efficient of localization and localization curve	
UNIT III	10
Horizontal and vertical measurement of angle by Theodolite and	
Height/depth Calculation.	

Assessment of Practical Examination

External A	External Assessment Internal Assessment		ssessment
Units	Maximum Marks	Pattern	Maximum Marks
UNIT I	20	Assignment	10
UNIT II	20		
UNITIII	20	Written Test	15
Record file & Viva Voce	15		
Total	75	Total	25

Books Recommended:

- 1. Sharma, J.P. Prayogatmak Bhoogol Ki Rooprekha (Hindi)
- 2. Singh,R.L.,Elements of Practical Geography.
- 3. Singh, L.R. & Singh, R.N. Map work and practical Geography (Eng./Hindi)
- 4. Hira Lal, PrayogatmakBhoogolKeAdhar (Hindi)
- **5.** Tiwari,R.C.and Tiwari,Sudhakar,Abhinav Prayogic Bhoogol.

Department of Geography
V.B.S. Purvanchal University, Jaunpur, U.P.
M.A./M.Sc., Geography, Year 5th, Semester – X

Course Title:	DISSERTATION
Course Code:	A110906R
Credit:	04
Credit.	04
Type of Course:	Research Project

Note:

The dissertation should be designed under the following heads:

Topic

Introduction

Conceptual background

Literature review

Statement of problem

Objectives

Research questions

Methodology

Study area

Analysis and interpretation of data

Conclusion

References