

Jharkhand, NEP, FYUGP 2022 onwards  
COURSES OF STUDY FOR FOUR-YEAR UNDERGRADUATE PROGRAMME 2022  
ONWARDS FOR GEOGRAPHY

Undergraduate Major in Geography

Draft Syllabus Based on UGC LOCF

Semester II



Credit Framework for Four Year Undergraduate Programme (FYUGP) under Kolhan  
University Chaibasa

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## MJ-2 Geography of Human and Cultural Landscape, (Theory)

Credit 3

Full Marks 75

Hours 45

Passing Marks 30

### Learning Outcomes:

After the completion, of the course, the students will have the ability to:

1. Know the changing human and cultural landscape at different levels.
2. Understand patterns and processes of population growth and its implications.
3. Appreciate the nature and quality of human landscapes.

Course Content: Theory Paper		45 Hrs
1. Introduction	Defining Human Geography; Major Themes: Determinism, Possibilism, Neo-determinism, Contemporary Relevance	10
2. Space and Society:	Evolution of Man; Distribution of Race; Religion and Language, and Cultural Regions, Study of Primitive Tribes of Jharkhand	10
3. Population:	Population Growth and Distribution; Population Composition; Demographic Transition Theory, Population-Resource Relationship, under, over and optimum population	15
4. Settlements:	Types of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization	10

Note for Assessment: - Final Examination 60 Marks+ Internal Examination 10+ Attendance 5 Marks =75 Marks

### References:

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London.
3. de Blij, H.J.(1996): Human Geography: Culture, Society and Space, 2nd edition. John Wiley and Sons, New York,
4. Fellman, J. D., Arthur, G., Judith, G., Hopkins, J. and Dan, S. (2007): Human Geography: Landscapes of Human Activities. McGraw-Hill, New York. 10th edition.
5. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York.

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7. Daniel, P.A. and Hopkinson, M.F. (1989): The Geography of Settlement, Oliver & Boyd, London.
8. Johnston R; Gregory D, Pratt G. et al. (2008): The Dictionary of Human Geography, Blackwell Publication.
9. Jordan-Bychkov et al. (2006): The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
10. Kaushik, S.D. (2010): Manav Bhugol, Rastogi Publication, Meerut.
11. Maurya, S.D. (2012): Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
12. Hussain, Majid (2012): Manav Bhugol. Rawat Publications, Jaipur
13. Tiwari Ram Kumar (2022): Jharkhand Ka Bhugol, Bihar Hindi Granth Academy, Patna

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## MJ-03 Major paper: -Climatology

Credit 3

Marks 75

Hours 45 Full

Passing Marks 30

### Learning Outcomes:

After the completion, of course, the students will have the ability to:

1. Understand the elements of weather and climate and their impacts at different scales.
2. Comprehend the climatic aspects and their bearing on planet earth.

Course Content: Theory Paper		45 Hrs
1. Introduction	Nature and scope of Climatology, Atmospheric Composition and Structure, Insolation and Temperature Factors and Distribution, Heat Budget, Temperature Inversion,	10
2. Atmospheric Moisture:	Atmospheric Pressure and Winds, General Circulation of Air, Jet Streams, Cyclones: Tropical, and Temperate, Anti-cyclone, Monsoon - Origin and Mechanism, El Nino,	15
3. Precipitation	Evaporation, Humidity, Stability and Instability, Air mass and Types of Rain, Precipitation Types,	10
4. Climatic Classification	Climatic Regions (Koppen's and Thornthwaite) Global warming and Climate Change	10

**Note for Assessment: - Final Examination 60 Marks+ Internal Examination 10+ Attendance 5 Marks =75 Marks**

### References:

1. Barry, R. G., and Chorley, R. J., (2009): *Atmosphere, Weather and Climate (9<sup>th</sup> Edition)*, Routledge, New York.
2. Bhutani, S., (2000): *Our Atmosphere*, Kalyani Publishers, Ludhiana.
3. Critchfield, H. J., (1987): *General Climatology*, Prentice-Hall of India, New Delhi
4. Gupta, L.S., (2000): *JalvayuVigyan(Hindi)*, MadhyamKaryanvayNidishalya, Delhi VishwaVidhyalaya, Delhi
5. Lal, D. S., (2006): *JalvayuVigyan(Hindi)*, PrayagPustakBhavan, Allahabad
6. Lutgens, F. K., Tarbuck E. J. and Tasa D., (2009): *The Atmosphere: An Introduction to Meteorology*, Prentice-Hall, Englewood Cliffs, New Jersey.
7. Oliver, J. E., and Hidore J. J., (2002): *Climatology: An Atmospheric Science*, Pearson Education, New Delhi.

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10. Strahler, A.N., (1987) *Modern Physical Geography*, John Wiley and Sons, New York, Singapore.
11. Trewartha, G. T., and Horne L. H., (1980): *An Introduction to Climate*, McGraw-Hill.

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## MJ-02 Statistical Methods in Human Geography (Practical) Credit 2

Credit 2

Teaching Hours 60 Full

Mark 50

Passing Mark 20

Course Content: Practical		60Hrs
1. Use of Data in Geography	Significance of Statistical Methods in Geography; Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval and Ratio).	15
2. Tabulation and Descriptive Statistics:	Frequencies (Deciles, Quartiles), Cross Tabulation, Central Tendency (Mean, Median and Mode, Centro-graphic Techniques, Dispersion (Standard Deviation, Variance and Coefficient of Variation).	20
3. Sampling:	Purposive, Random, Systematic and Stratified, Theoretical Distribution: Probability and Normal Distributions.	15
4. Association and Correlation:	Rank Correlation, Product Moment Correlation, and Simple Regression	10

**Note for Assessment:- Final Examination 30 Marks+10 Marks Viva-Voce+10 Marks Practical Note Book=50 Marks**

### Practical Record:

Each student will submit a record containing five exercises:

1. Construct a data matrix (of about  $10 \times 10$ ) with each row representing an areal unit (districts or villages or towns) and about 10 columns of relevant attributes of the areal units.
2. Based on the above table, a frequency table, measures of central tendency and dispersion would be computed and interpreted for any two attributes.
3. Histograms and frequency curves would be prepared for the entire data set and attempt to fit a normal curve and interpreted for one or two variables.
4. From the data matrix a sample set (20 per cent) would be drawn using random- systematic and/or stratified methods of sampling and locate the samples on a map with a short note on the method used.
5. Based on the sample set and using two relevant attributes, a scatter and regression line would be plotted and residual from regression would be mapped with a short interpretation.

### References:

1. Ajai, S. G. and Sanjaya, S.G. (2009) *Statistical Methods for Practice and Research*, Sage Publications, New Delhi.
2. Berry, B. J. L. and Marble, D. F. (eds.): *Spatial Analysis—A Reader in Geography*.
3. Ebdon, D., (1977): *Statistics in Geography: A Practical Approach*.
4. Hammond, P. and McCullagh, P. S., (1978): *Quantitative Techniques in Geography: An Introduction*, Oxford University Press.

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5. King, L. S., (1969): *Statistical Analysis in Geography*, Prentice-Hall.
6. Mahmood, A., 1977: *Statistical Methods in Geographical Studies*, Concept.
7. Pal, S. K., (1998): *Statistics for Geoscientists*, Tata McGraw Hill, New Delhi.
8. Rogerson, P. A., (2001) *Statistical Methods for Geography*, Sage Publications, New Delhi.
9. Sarkar, A. (2013): *Quantitative geography: techniques and presentations*. Orient Black Swan Private Ltd., New Delhi
10. Shinha, Indira., (2007): *Sankhyikibhugol(Hindi)*. Discovery Publishing House, New Delhi.
11. Silk, J., (1979): *Statistical Concepts in Geography*, Allen and Unwin, London.
12. Taylor P.J., (1983) *Quantitative Methods in Geography: An Introduction to Spatial Analysis*, Waveland Press, Boston Publishers.
13. Yeates, M., (1974): *An Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, New York.
14. Bhopal Singh R L and Dutta P K (2012) *Prayogic Bhugol ke Mool Tatva*, Kalyani Publisher, New Delhi
15. Sharma J. P., (2010): *Prayogic Bhugol* Rastogi Publishers, Meerut.

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