

Compulsory Course
M.A./M.Sc Credit Based Grading System
Geography Semester IV
Paper 401- Spatial Dimensions of Development

No. of Credits 4 Teaching Hours 60 + Notional Hours 60 = Total Hours 120

1. Concept of Development **Contact Hours 15**

- 1.1 Economic growth and development - Ingredients and factors- Spatial and aspatial aspects- Concept of underdevelopment.
- 1.2 Natural resource-access and mobilisation-Technology and society Interrelation- Environment question in development
- 1.3 Types of energy and alternate sources- gaps in utilisation
- 1.4 Measuring levels of development - Choice of indicators - Spatial and sectoral inequality - Developed and less developed countries.

2. Theories of Development **Contact Hours 15**

- 2.1 Relevance of economic growth theories -Concept of stages of development
- 2.2 Model of circular and cumulative growth - Growth pole concept - Diffusion and development surfaces.
- 2.3 Concept of spread and backwash - Core-periphery concept
- 2.4 Patterns of regional disparity in India.

3. Theories of Underdevelopment **Contact Hours 15**

- 3.1 Colonialism, neocolonialism and under development - Political economy of growth
- 3.2 Theories of dependency, Unequal exchange
- 3.3 Concept of accumulation and uneven development - Relevant examples.
- 3.4 Alternative approaches to development

4. Globalisation and Uneven development **Contact Hours 15**

- 4.1 Role of International trade in development and underdevelopment- Trade integration and WTO regime.
- 4.2 Process of internationalisation of capital and uneven development – Spatial organisation and expansion of transnational capital
- 4.3 Multinational Corporations and Indian space-economy -Spatial strategies and settlement systems.
- 4.4 Globalisation of the world economy -Impact on society, economy and environment.

Text-Books:

1. Harvey, D. (1982): The Limits to Capital, Basil Blackwell.
2. Johnston, R.J. and Taylor, P.J. (eds)(1986):A World in Crisis, Basil Blackwell.
3. Forbes, O.K. (1984): The Geography of Underdevelopment, The Johns Hopkins University Press
4. Brewer, A. (1980):Marxist Theories of Imperialism, Routledge and Kegan Paul.
5. Pacione, M. (1988): Geography of the Third World, Routledge.
6. Coates, B. E.,Johnston, R. J. and Knox, P.L., (1977): Geography and inequality, Oxford University Press.
7. Taylor, M. J. and Thirst, N. J., (1981): The Geography of Multinational Corporations, Vol.I and II, Croom Helm.
8. Banerjee-Guha, S., (1997):Spatial Dynamics of International Capital, Orient Longman.

9. Armstrong, W. and McGee, T.G., (1985): *Theatres of Accumulation*, Methuen.
10. Frank, A.G., (1978): *Dependent Accumulation and Underdevelopment*, The MacMillan Press, London.
11. Mather, A.S. and Chapman, K., (1995): *Environmental Resources*, Longman Scientific and Technical.
12. Potter, R.B., Binns, T, Elliott, J.A. and Smith, D., (1999): *Geographies of Development*, Longman.
13. AmitBhaduri, (2006): 'Development with dignity A case for full employment', National book trust of India.
14. Andre Gunder Frank, (1975): 'On capitalist Underdevelopment', Oxford University Press.
15. Caroline Thomas and Peter Wilkin (ed.) (1997): 'Globalization and South', Macmillan Press Ltd.
16. Desai Vandana and Potter B. Robert, (eds.) (2011): 'The Companion to Development Studies', AHodder – Viva Edition, London.
17. Power Marcus, (2003): 'Rethinking Development geographies', Routledge, London.
18. Summer Banks, *Developmental Geography*, (2010): Apple Academic press.
19. Stuart Corbridge, 1995, *Development Studies A Reader*, Arnold.
20. George Ritzer, 2010: *Globalization – A Basic Text*, Wiley-Blackwell
21. R.J. Johnston, Peter J. Taylor and Michael J. Watts, (eds.) (2002): *Geographies of Global Change*, Blackwell Publishing

Books for further reading:

1. Jenkins, R., (1987): *Transnational Corporations and Uneven Development*, Methuen.
2. Blake, D.H. and Walter, R.S., (1987): *The Politics of Global Economic Relations*, Prentice Hall.
3. Bagchi, A.K., (1989): *The Political Economy of Underdevelopment*, Cambridge University Press, 1982, Orient Longman.
5. Archibugi, D. and Michie, J., (eds.), (1997): *Technology, Globalisation and Economic Performance*, Cambridge University Press.
6. Hoogvelt, A., (1982): *Third World in Global Development*, Macmillan.
7. Cole, J.P., (1981): *Development Gap*, John & Wiley and Sons.
8. Kenwood, A.G. and Lougheed, A.L., (1983): *The Growth of the International Economy*, Alien and Unwin.
9. George, S., (1988): *A Fate Worse than Debt*, Grove Weidenfeld.
10. Chapman, K., (1979): *People, Pattern and Process*, Arnold Heinemann.
11. Adams, W.M., (1990): *Green Development, Environment and Sustainability in the Third World*, Routledge, London.
12. Sachs Wolfgang, (ed.), (1997): *The Development Dictionary*, Orient Longman.
13. Firoze Manji, (2006): 'Development and Rights', Rawat Publication
14. Hidenori Okahashi, (2008): 'Emerging new industrial spaces and regional development in India', Manohar.
15. D. Jayraj and S. Subramanian, (2010): *Poverty, Inequality and population- Essays in Development and Applied Measurement*, Oxford
16. Ramchandra Guha and Inequalities, (eds.) (1999): *Institutions and Inequalities- essays in Honour of Andre Beteille*, Oxford.
17. Ajit Muricken, (1997): 'Globalization and SAP Trends and impact An Overview', Vikas Adhayan Kendra Mumbai.

3. Environmental degradation:

Contact Hours 15

- 3.1 Causes and consequences of environmental degradation
- 3.2 Environmental degradation in forestry and agricultural sectors – special reference to tropical countries
- 3.3 Environmental issues and problems in urban and coastal areas – special reference to India

4. Environmental equilibrium:

Contact Hours 15

- 4.1 Environmental dynamism – stability, environmental imbalance
- 4.2 Biodiversity – spatial variations, threats, biodiversity hotspots
- 4.3 Conservation – need and approaches, principles and methods, sustainability

Reference Books:

1. Adams, W.M. (2001): Green Development: Environment and Sustainability in the Third World, Routledge, London.
2. Agarwal, S.K. and Dubey, P.S. (2002): Environmental Controversies, A.P.H. Publishing Corporations, New Delhi.
3. Basu, D.(ed.)(1995): Environment and Ecology – The Global Challenge, Printwell, Jaipur.
4. Calvert P.S. (1999): The South, the North and the Environment, Pinter, London and New York.
5. Ewusie, J.Y. (1980): 'Elements of Tropical Ecology', Heinemann Educational Books Inc. London.
6. Gupta, A. (1988): 'Ecology and Development in the Third World', Routledge, London.
7. Krishna, S. (1996): Environmental Politics – People's Lives and Development Choices, Sage Publications, New Delhi.
8. Mather, A.S. and Chapman, K. (1995): Environmental Resources, Longman Group Limited, U.K.
9. Odum, E.P. (1971): 'Fundamentals of Ecology', Third Edition, W.B.Saunders Company, Philadelphia.
10. Smithson, P., Addison, K. and Atkinson, K. (2002): The Fundamentals of Physical Environment, Routledge, London.
13. United Nations (1971): 'ECE Symposium on Problems Relating to Environment', U.N., New York.
14. UNFPA (1992): 'Population, Resources and Environment – The Critical Challenges', United Population Fund, London.

Books for further Reading:

1. Centre for Science and Environment (1985),(1991): The State of India's Environment, CES, New Delhi
2. The Hindu (Annual) Survey of the Environment, Madras.
3. Saxena, H.M., (2010),Environmental Management ,2nd Edition , Rawat Publication, Jaipur

M.A./ M.Sc. Credit Based Grading System
Geography - Semester III
Two Electives: 403 and 404
From Group A, B, and C

M.A. / M.Sc. Credit Based Grading System
Geography - Semester IV
405: Tools and Techniques of Spatial Analysis – VII
Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Statistical Analysis using SPSS

Contact Hours 30

- 1.1 Chi-square analysis
- 1.2 Correlation coefficient
- 1.3 Regression analysis
- 1.4 ANOVA

2.. Spatial Analysis based on GIS software

Contact Hours 20

- 2.1 Application of Map Info software
- 2.2 Application of Q GIS software
- 2.3 Use of GPS for mapping in the field.

3. Environmental Indicators

Contact Hours 10

- 3.1 Noise Pollution,
 - a) Use of sound measuring device
 - b) Temporal and spatial variation
- 3.2 Environmental Status
 - a) Interpretation of Pollution data
 - a) Interpretation of maps/atlas depicting environmental status

Marks: 35 Section I; 25 Section II; 15 Section III; IV Viva- 15; Journal – 10

Reference books

1. Hinton, P., et.al. (2012) SPSS Explained, Rutledge, London
2. Berry, B.J.L. and Marble, D.F. (1968): Spatial Analysis – A reader in statistical Geography, Prentice Hall, Englewood Cliffs, New Jersey.
3. Levin, J. (1973): Elementary Statistics in Social Research, Harper and Row, New York.
4. Yeates, W.M. (1974): An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
5. Norcliff, G. B. (1982), Inferential Statistics for Geographers, Hutchinson, London.
6. Cressie, N., (1991), statistics for Spatial Data, John Wiley and sons, New York.
7. Agrawal, N.K. (2006): Essentials of GPS (2nd Ed), Geodesy and GPS publishers, Hyderabad
8. Ganesh, A.(2006): GPS Principles and Applications, Satish Series Publishing House
9. Wicox, P.R. (2003), Applying Contemporary Statistical Techniques, Academic Press, Amsterdam
10. Petersen, G.N., (2009), GIS Cartography- A Guide to Effective Map Design, Taylor and Francis Group.
11. Rogerson P.A. (2010), 3rd Ed. Statistical Methods for Geography, a Students Guide, Sage.
12. envfor.nic.in
13. www.wri.org
14. <http://mpcb.gov.in>
15. Gupta, V.(1999), SPSS for Beginners, VJBooks Inc.
16. IBM SPSS Statistics 19 Brief Guide
17. gis.nic.in/gisprimer/

M.A. / M.Sc. Credit Based Grading System

Geography - Semester IV

406: Tools and Techniques of Spatial Analysis – VIII

Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Interpretation of spatial patterns and explanation of spatio-social processes

Contact Hours 24.

1.1 Learning Skills of critical Interpretation

- a. Visual aids as representation of socially constructed space.
- b. Efficacy and Relevance of techniques of visual representation- A Critical Perspective
- c. A shift from description of patterns to critically explanatory interpretation of processes.

1.2 Interpretation of visuals and non visual techniques of spatial analysis

- a. From various sources: NATMO, and Phillips Atlas, Oxford Economic Atlas and Census Atlas of India, Women and Children Atlas, Atlas of Religion, Historical Atlas of South Asia, Planning Atlas, etc.
- b. From documentaries, films, photographs, cartoons as sources of spatio-social data.
- c. Explanation of qualitative analysis: Ethnographic transcripts, experiential data and narrative data, newspaper and literary data

2. Spatial Analysis in Development Studies: Contact Hours 18

- 2.1 Measuring development: Choice and relevance of indicators
- 2.2 Calibration of ratios and indices; Construction of diagrams and maps
- 2.3 Mapping and interpretation of Levels of development, Regional imbalance; Gender gap

3. Project Work- Contact Hours 18.

- 3.1 Spatio-social analysis of the data based on field work
- 3.2 Application of Quantitative / qualitative techniques Preparation of visuals and acquiring presentation skills
- 3.2 Report writing, Reference work and bibliography- Adopting inter-relational and critical Approach

Total Marks 100: Section I-35; Section II- 20; Section III- 20; Section IV Viva- 15; Journal- 10

Reference Books

1. Cressie, N., (1991), statistics for Spatial Data, John Wiley and sons, New York.
2. Paul Cloke, Ian Cook, Philip Crang, Mark Goodwin, Joe Painter, Chris Philo, (2004): Practising Human Geography, Sage.
3. Mitra, A. (1961): Levels of Regional Development, Census of India, 1961.
4. Streeton, P. and Jolly, R. (eds.)(1981).Recent Issues in Development, Pergamon Press, London.
5. Kundu, A. (1975): Construction of Composite Indices for Regionalisation: An enquiry into the Methods of Analysis, Geographical Review of India, Vol.37 No.1, March, 1975, pp. 19-29.
6. Moss Pamela, (ed.), (2002): Feminist Geography in Practice- Research and Methods, Blackwell Publishers
7. Robin Flowerdew and David Martin, (eds.) (1997): Methods in Human Geography- A Guide for Students doing research Project, Longman

8. Dasgupta, N. (1984): The Geography of Socio-economic Well-being in India, MPhil. Dissertation, Department of Geography, University of Mumbai.
10. U.N.D.P. (1981-2013): Human Development Reports
11. Eade Deborah, (Series Editor) Jo Rowlands (Introducer), (2006): Development Methods and Approaches- Critical approaches, Oxfam, 2003, Rawat.
12. M. C. G. M. (2010): Mumbai Human Development Report, 2009, Oxford
13. Delyser Dydia, Herbert Steve, Aitken Stuart, Crang Mike and McDowell Linda (eds.), 2010, 'The sage Handbook of Qualitative Geography', Sage.
14. Dodge M, et. al., (ed.) (2011): Rethinking Maps, New Frontiers in Cartographic Theory, Routledge, Taylor and Francis Group, London and New York.
15. Coates, B. E., Johnston, R. J. and Knox, P. L., (1977): Geography and inequality, Oxford University Press.
16. Wong Cecilia, 2006, 'Indicators for Urban and Regional Planning', Routledge.
- 17.. Berry, B.J.L. and Marble, D.F. (1968): Spatial Analysis – A reader in statistical Geography, Prentice Hall, Englewood Cliffs, New Jersey.
18. Levin, J. (1973): Elementary Statistics in Social Research, Harper and Row, New York.
19. Yeates, W.M. (1974): An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
20. Hammond, R. and McCullagh, P.S. (1974): Quantitative Techniques in Geography: An Introduction, Oxford University Press, London.
21. Crang M. and Cook, I. 2007, Doing Ethnographies, Sage.
22. Cope M. and Elwood S. (2009), Qualitative GIS, Sage.
23. Vallentine G. Clifford N. (2010), Key Methods in Geography, Sage.

Further references:

1. Norcliff, G. B. (1982), Inferential Statistics for Geographers, Hutchinson, London.
2. Burton T.A., 1970, 'Social Research Techniques for Planners', George Allen and Unwin, London.
3. Bailey, K. D. (1987), Methods of Social Research, The Free Press, New
4. Cressie, N., (1991), Statistics for Spatial Data, John Wiley and sons, New York.
6. Clive Seale (ed.), (2004): Social Research Methods, Routledge Student Reader.
7. Swanborn, Peter, 2012, 'Case Study Research: What, Why and How?', Sage, New Delhi.
8. David Silverman, (ed.) (3rd edition), 2012, 'Qualitative Research', Sage, New Delhi
9. Bridget Somekh and Cathy Lewin (2nd edition), 2012, 'Theory and Methods in Social Research', Sage, New Delhi.
10. Danileen R. Loseke, 2013, 'Methodological Thinking - Basic Principles of Social Research Design', Sage, New Delhi.
12. Pickles, J., (1995), Ground Truth: The social Implications of Geographical Information Systems, The Guilford Press, New York.
13. Martin D., (1996), Geographical Information Systems: Socio-economic Applications, 2nd edition, Routledge, London, New York.
14. Wicox, P.R. (2003), Applying Contemporary Statistical Techniques, Academic Press, Amsterdam
15. Petersen, G.N., (2009), GIS Cartography- A Guide to Effective Map Design, Taylor and Francis Group.
16. Rogerson P.A. (2010), 3rd Ed. Statistical Methods for Geography, a Students Guide, Sage.
17. Qualitative Research, Sage Journal, ISSN 1468-7941

18. Qualitative Inquiry, Sage Journal.
19. Baggio R and Klobas J. (2011): Quantitative Methods in Tourism, A Handbook, Aspects of Tourism series, Channel View Publications, UK, USA, Canada.

Elective Courses
M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV
403/ 404: A3- Fluvial Geomorphology

No. of Credits: **4** Teaching Hours 60 + Notional Hours 60= Total hours **120**

1. Drainage pattern: **Contact Hours 15**

- 1.1 Evolution of drainage pattern
- 1.2 Factors affecting evolution of drainage pattern
- 1.3 Drainage network composition and associated laws
- 1.4 Network composition and flow characteristics

2. Drainage basin characteristics: **Contact Hours 15**

- 2.1 Forms, size, density, bed and bank
- 2.2 Channel morphology
- 2.3 Concept of graded profile
- 2.4 Impact of local base-levels on profile – rejuvenation

3. Fluvial erosion: **Contact Hours 15**

- 3.1 Processes influencing erosive work of river
- 3.2 Landforms associated with fluvial erosion -Gorges, canyons, laterally eroded valleys and erosional terraces
- 3.3 Changes in profile with distance from source
- 3.4 Impact on man and his activities

4. Fluvial deposition: **Contact Hours 15**

- 4.1 Processes inducing deposition
- 4.2 Associated landforms: Piedmont plain, alluvial plain
- 4.3 Deltas and estuaries
- 4.4 Depositional landscapes and man

Reference Books:

1. Chorley, R.J. (ed)(1969): Introduction to Fluvial Processes', Methuen, London.
2. Gregory, K.J. and Walling, D.E. (1973) : Drainage Basin, Form and Process : A Geomorphological Approach', Edward Arnold, London.
3. Schumm, S.A. (1977): The Fluvial system, John Wiley, New York.
4. Morisawa, V. (1985): Rivers, Forms and Process, Longman, London.
5. Richards, K.(1982) : Rivers: Form and Process in Alluvial Channels, Methuen, London.
6. Crickmay, C.H. (1974): Work of the River, Macmillan, London.
7. Jansson, M.B.(1982): Land Erosion by Water in Different Climates, Uppsala University.
8. Knighton, D. (1984): Fluvial Forms and Processes', Edward Arnold, London.

Reference Books:

1. Agarwal A. and Narain, S. (1997), "Dying Wisdom: Rise, Fall and Potential of India's Traditional Water Harvesting System", CSE, New Delhi.
2. Centre for Science and Environment (2002), "Citizens Report", New Delhi.
3. Charlu, T.G.K. and Dutt, D. K. (1982), "Ground Water Development in India" Rural Electrification Corporation, New Delhi.
4. Chorley, R. J. (1967), "Water, Earth and Man", Methuen, London.
5. Chorley, R. J. (1969), "Introduction to Physical Hydrology", Methuen, London.
6. Jones, J. A. (1997), "Global Hydrology : Processes, Resources and Water Management", Longman, London.
7. Lvovich, M.I., (2010), Climatology, Hydrology, Glaciology, John Wiley and Sons, London
8. Mather, J. R. (1984), "Water Resources : Distribution, Use and Management", John Wiley, Maryland.
9. Singh, R. A. and Singh, S. R. (1972), "Water Management: Principles and Practices", Tara Publication, Varanasi.
10. Todd, D. K. ((1959), "Ground Water Hydrology", John Wiley, New York.

Books for Further Reading:

1. Rao, K. L. (1979), "India's Water Wealth", Orient Longman, New Delhi.
2. Central Water Commission (1977), "Floods and Their Control in India", Ministry of Agriculture and Irrigation, Govt. of India, New Delhi.
3. Sain, S. K. (1979), "The Flood Problem in India", Birla Institute of Scientific Research, Economic Research Division, New Delhi.
4. Sita, K. ,Phadke, V. S. and Rao, K. V. S. (1991), "Koyna Catchment: An Environmental Perspective", Unpublished Project Report, Department of Geography, University of Mumbai.
5. Tideman, E. M. (1996), "Watershed Management: Guidelines for Indian Conditions", Omega, New Delhi.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:A6- Microclimatology

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Microclimatology:

Contact Hours 15

1.1 Definition, scope and content

1.2 Relevance in applied climatology

2. Factors affecting microclimate - Physical:

Contact Hours 15

2.1 Elevation, slope and aspect

2.2 Proximity to water body

2.3 Types of climate: mountain, valley, coastal - Indian examples.

3. Impact of vegetation:

Contact Hours 15

- 3.1 Variations in light, temperature, humidity, wind, rainfall
- 3.2 Microclimatic conditions of forests, grasslands, barren areas

4. Climate and man:

Contact Hours 15

- 4.1 Urban areas – urban temperatures – heat island – causes and effects, changes in humidity, precipitation, wind environments
- 4.2 Industrial centres – pollution and its impact – Issues and problems
- 4.3 Climatic approach to housing design - Surface and building materials and their impact
- 4.4 House-types in relation to climate

Reference Books:

- 1. Mather, J.R.(1974): Climatology: Fundamentals and Applications, McCraw Hill Book Co., U.S.A.
- 2. Matthews, W. H., Kellogg, W., Robinson, G.D. (1971): Man's Impact on Climate, M.I.T.Press Design Dept. U.S.A.
- 3. Rosenberg, N.J., Blad, B.L., Verma, S.B.(1983): Micro-climate - The Biological Environment, John Wiley & Sons, Inc., U.S.A.
- 4. Subrahmanyam, V.P.(1983): Contributions to Indian Geography Part IV – Applied Climatology, Heritage Publishing, New Delhi.
- 5. Geiger, R.(1966): The Climate near the ground, Harvard University Press, Cambridge.

Books for further reading:

- 1. Bach, W., Pankrath, J., Kellogg, W.(1979):Man's Impact on Climate, Elsevier, Scientific Publishing Company, New York.
- 2. Lvovich, M.I., (2010), Climatology, Hydrology, Glaciology, John Wiley and Sons, London
- 3. Smith, K. (1978): Principles of Applied Climatology, McGraw Hill Books Co. Ltd., U.K.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:A9- Geographical Perspective on Ocean Development

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Significance of oceans in the present day context:

Contact Hours 15

- 1.1 Ocean as a resource
- 1.2 Oceanic deposits and sediments
- 1.3 Sea as a means of transport

2. Ocean – atmosphere system:

Contact Hours 15

- 2.1 Energy balance
- 2.2 Circulation patterns of major oceans: surface, subsurface and deep water
Circulation
- 2.3 El- Nino, Southern Oscillation, La Nina and their impacts

3. Biotic environment of the ocean:

Contact Hours 15

- 3.1 Flora and fauna – Biotic ocean resources
- 3.2 Ecological factors in productivity
- 3.3 Horizontal and vertical variations in distribution and productivity.

4. Abiotic ocean resources:

Contact Hours 15

- 4.1 Renewable and non-renewable sources of energy - Sea-water
- 4.2 Minerals from the ocean bed – Polymetallic nodules
- 4.3 Minerals from sea water

Reference Books:

1. Bhatt, J.J. (1978): Exploring the Planet Ocean, D. Von Nostrand Co., New York.
2. Birla Economic Research Foundation, Economic Research Division(1992): The Oceans, allied Publishers Ltd., New Delhi.
3. Chandra, S. and others (eds.)(1993): The Indian Ocean and its Islands: Strategic, Scientific and Historical Perspectives', Sage Publications, New Delhi.
4. Couper, A.D. (1972): Geography of Sea Transport, Hutchinson University Library, London.
5. Sharma, R.C.(ed)(1985): The Oceans: Realities and Prospects, Rajesh Publications, New Delhi.
6. Sengupta, R. and Desa, E. (eds.)(2001): The Indian Ocean: A Perspective Vol., I and II, Oxford and IBH Publishing Company Private Limited, New Delhi.
7. Paul, P.R. (1998): Invitation to Oceanography, Jones and Bartlett Publishing, Sudbury, Massachusetts.
8. Rajgopalan, R. (ed)(1996): Voices for Oceans, A Report to the Independent World Commission on the Oceans, International Ocean Institute, Operational Centre, Madras, India.
9. Qasim, S.Z.(1998): Glimpses of Indian Ocean, Universities Press (India) Limited, Hyderabad.

Books for further reading:

1. Fairbridge, R.W. (ed) Encyclopedia of Oceanography, Reinholt, New York.
2. Scientific American (ed) (1969): The Ocean, Freeman, San Francisco.

M.A./ M.Sc. Credit Based Grading System Geography - Semester IV

403/ 404:A10- Geography of Climate Change with special reference to India

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Climate Change:

Contact Hours 15

- 1.1 Emerging global pattern
- 1.2 Causes/factors of climatic change in the past
- 1.3 Natural and man-made factors
- 1.4 Evidences and indicators of climate change

2. Global warming: Contact Hours 15

- 2.1 Causes of global warming – role of anthropogenic factor
- 2.2 Consequences of global warming – effect on biotic communities
- Impact on agro-climatic zones in India

3. Droughts and Floods: Contact Hours 15

- 3.1 Droughts in India– identifying drought-prone areas
- 3.2 Factors responsible and consequences of droughts
- 3.3 Flood-prone regions of India – impact on people and economy
- 3.4 Measures to combat droughts and floods – food security

4. Tackling issues and problems related to climate change: Contact Hours 15

- 4.1 Initiatives at global level
- 4.2 Role of global players – IPCC, UNFCCC – Kyoto Protocol
- 4.3 Carbon credits – definition, carbon markets, Clean Development Mechanism
- 4.4 Carbon footprint – methods of calculating and reduction

Books:

- 1. Derbyshire, E,(2010), Geomorphology and Climate, John Wiley and Sons, London
- 2. Khan, MZA et al. (2011), Global Climate Change: Causes and Consequences, Rawat publication, Jaipur
- 3. Lomborg B, (2010), Smart Solutions to Climate Change , Rawat Publication, Jaipur
- 4. Singh, S, and Mohan, K.S (2012), Climate Change: An Asian Perspective, Rawat publication, Jaipur

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:B5- Geography of Gender

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Place of gender in Geography Contact Hours 15

- 1.1 Gender as a socio-spatial construct- Sex-gender system- Femininity and masculinity- Body as place and space- role of patriarchy.
- 1.2 Production of gendered spaces and differentiation- Complexities of race, caste, religion and class- Capitalist system and gender division of labour.
- 1.3 Gender theories- Radical, Marxist, Poststructural- Cultural turn and Feminist politics.
- 1.4 Review of Feminist geographies– diverse trends- Analysis of gender in subfields of Geography

2 Gender and Development in Space and Society Contact Hours 15

- 2.1 Colonial and Neo-colonial context- Gender and Globalisation– Gender dimensions of development - the contemporary global patterns.
- 2.2 Differential access and control over resources- Environment, technology, livelihood- Regional context of gender in India
- 2.3 Demographic variables – Spatial dynamics of age and sex-ratio, fertility, reproductive health and poverty.
- 2.4 Social and cultural aspects- Female literacy, education, health and social

wellbeing- Regional patterns in India.

3. Gender and Development in Space and Economy **Contact Hours 15**

- 3.1 Evolution of world economy and changes in gender division of labour- Fordist and post-Fordist strategies
- 3.2 Women workers in Global South –feminisation of labour- trends and implications – Urban and rural context
- 3.3 Spatio-sectoral dynamics of women workforce in India – Colonial and neo-colonial context.
- 3.4 Gender development and empowerment- Regional trends, spatio-social gaps in India

4. Gender Politics and Space: Planning, Women's rights and Equality **Contact Hours 15**

- 4.1 Gender budgeting and planning strategies- Role of the State, global institutions and the NGO sector- strategies of gender advocacy
- 4.2 Globalisation and politics of women's movements – South Asian Context
- 4.3 Gender empowerment through Five Year Plans in India- Regional imbalances- Women's Rights and feminist movements in India
- 4.4 Critical evaluation of case studies of gender empowerment projects in India- Regional/cultural variations- Rural-urban—Caste, tribe, religious groups.

Reference Books:

1. McDowell Linda, (1999): Gender, Identity and Place, Polity Press, U.K.
2. Raju, Saraswati. and Bagchi, Dipika. (1998): Women and Work in South Asia: Regional Patterns and Perspectives, Routledge, U.K. and U.S.A.
3. McDowell, Linda, and Sharp, Joanne P. (1997); Space, Gender and Knowledge, Arnold, U.K.
4. Visvanathan, Nalini. et. al., (1997): The Women, Gender and Development Reader, Zed Books Ltd., U.K. and U.S.A.
5. Kabeer, Naila. (1999): Reversed Realities, O.U.P, U.K.
6. Harison, S. and Pratt, G. (1995): Gender, Work and Space, Routledge, U.K. and U.S.A.
7. Massey, D. (1994): Space, Place and Gender, University of Minnesota Press, U.S.A.
8. Shiva, Vandana. (1988): Staying Alive; Women, Ecology and Development, Zed Books, U.K.
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Books for further reading:

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2. Short, J.R. (1996): 'Gender, Space and Power' in J. R. Short (ed.) The Urban Order, Blackwell, U.S.A., pp 307-329.
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8. Rose, G., (1993): Feminism and Geography: The Limits of Geographical Knowledge, University of Minnesota Press, U.S.A.
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28. Aggarwal Bina, (1992), 'The Gender and Environment Debate: Lessons from India', Feminist Studies, 18 (1), pp. 119-58.
29. Aggarwal Bina, (1997 a), 'Gender, Environment and Poverty Interlinks: Regional Variations and temporal shifts in Rural India, 1971-91', World Development 25(1), pp. 23-52.
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M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:B6- Historical Geography

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

I Spatial bases of History- Evolut

Contact Hours 15

- 1.1 Time space convergence - History as an aspect of geographical explanation.
- 1.2 Theory and Methodology in Historical Geography
- 1.3 Evolution of Civilisation, society culture - Origin and diffusion of technology
- 1.4 Society and space in ancient civilisations: selected examples.

3. Guelke, C. (1982): Historical understanding in Geography, Cambridge University Press.
4. Husain, M.(1993) Perspectives in History and Nature of Geography, Vol.II, Anmol Publication.
5. Kinder, H. and Hiigemann, W.(1964):The Penguin Atlas of World History, Vols. I and II, Penguin Books.
6. Mitchell, J.B.(1973): Historical Geography, The English Universities Press Ltd.
7. Syke, P (1961):A History of the Exploration, Harper Torchbooks
8. Schwartzberg, J.E.(1978): A Historical Atlas of South Asia, The University of Chicago Press.
9. Kosambi, D. D. (1972):The Culture and Civilization of Ancient India, Vikas Publication Ltd.
10. Joshi P.B.(1920):Early History of North Konkan, Wilson College, Bombay.

**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B9- Industrial Geography

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

I Industrialisation- Space and Geography – Contact Hours 15

- 1.1 Factors processes in industrial location – Fordist and Post- Fordist Form
- 1.2 Technological changes and their impact on the factors - A temporal review
- 1.3 International division of labour – and Changing perspectives in industrial location.

2. Industrial Location Theories – Contact Hours 15

- 2.1 Theories and models of industrial location and growth –
- 2.2 Critique of industrial location theories.
- 2.3 Industrial linkages and industrial regions - Growth and decline of industrial regions and industries
- 2.4 Nature of industries and territorial division of labour - Patterns in national space.

3. Industrial structure and organization – Contact Hours 15

- 3.1 Models of growth of firms - Characteristics of industrial development in various political systems
- 3.2 Patterns in international space - Mobility of capital and restructuring of world Industrial space
- 3.3 Models of corporate growth - Vertical and horizontal integration
- 3.4 Transnational corporations, industrial development and the new international division of labour.

4. Industrialisation in India Contact Hours 15

- 4.1 Historical review of Indian industrialisation since 1947 – Evolution of industrial regions in India – Select Case Study
- 4.2 Inter-industry linkage -Role of small scale and cottage industries.
- 4.3 Multinational corporations and India's industrial scenario -Impact on economy, society and environment.
- 4.4 Problems of industrial development - Contemporary scenario - Inter-regional disparities - Issue of dispersal and regional development - Role of MNCs - Role of State

Reference Books:

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- 2.Bale, J.(1981): The Location of Manufacturing Industry, Oliver and Boyde, (2nded.
- 3.Hamilton, F.E.I.(1974): Spatial Perspectives on Industrial Organisation and Decision Making, John wiley,
- 4.Lloyd, P. E. and Dicken, P.(1972): Location in Space--A Theoretical Approach to Economic Geography, Harper and Row.
- 5.Smith, D. M.(1982): Industrial Location - An Economic Geographic Analysis, John Wiley and Sons.
- 6.Massey, D. (1984): Spatial Divisions of Labour, Macmillan,U.K.
- 7.Dunning, J.H.(1981): international Production and the Multinational Enterprise.
- 8.Clarke, I.M.(1985): The Spatial Organisation of Multinational Corporations, Groom, Helm, U.K.
- 9.Banerjee-Guha, S. (1997): Spatial Dimensions of International Capital: Study of Multinational Corporations in India, Orient Longman.

Books for further reading:

1. Watts, H. D. (ed.)(1980): Large Industrial Enterprise; Some Spatial Perspectives, Groom Helm.
2. Chaudhuri, M. R. (1976): Indian, Industries, Oxford Book House.
3. Hamilton, F.E.I. & Lingo, G.J.R. (ed)(1979): Spatial Analysis, Industry and Industrial Environment, Vol.1 & 11, John Wiley.
4. Radice, H.(1975): International Firms and Modern Imperialism, Harmondsworth, U. K.
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6. Saxena, A. N, (1985): Planning and Promotion of Production - The Indian Experience, Vol.I and II, New Delhi, National - Productivity Council.
- 7 Harvey, D. (1982): Limits to Capital, Basil Blackwalf.
8. Tharakan, M.(1980): The New International Division of Labour and Multinational Corporations, Saxon House.

**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

**403/ 404:B10- Contemporary Agriculture in Global South With
Special Reference to India**

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Nature of Agricultural Geography Teaching Hours 15

- 1.1. Global overview of agriculture
- 1.2. Agricultural system and Global South -Factors –new regionalism –challenges, policy implementation
- 1.2. Role of landover , yield gap and accessibility
- 1.3. Socio-economic and institutional characteristics of selected countries
- 1.4. Dispersal of Agriculture – processes and impact- land deal implementation

2. Changing Perspective in Agriculture

Teaching Hours 15

- 2.1. Colonialisation and exploitative structuring of agricultural regimes in the Global South.
- 2.2. Export orientation agricultural production and dependency in the countries of Global south.
- 2.3. Food insecurity - droughts and floods
- 2.4. Spatial pattern and Causes of Hunger- Policies for eradication of Hunger

3. Contemporary globalization in agriculture

Teaching Hours 15

- 3.1. Globalisation and role of MNCs in corporatisation of agriculture
- 3.2. Structuring of agribusiness in Global South
- 3.3. Functioning of futuristic commodity markets, food chains and FDI in agro marketing
- 3.4. WTO and mobilisation of Farmers' protest at the global level

4. Indian Agriculture

Teaching Hours 15

- 4.1. Historical perspective and evolution of agricultural regimes in India
- 4.2. A Review of Agricultural Planning In India – Green Revolution and its impact.
- 4.3. Neoliberal practices in agriculture in India - Droughts and food insecurity.
- 4.4. Crisis in Indian Agriculture- falling prices of agricultural commodities, increasing debts, issues of intellectual property rights and patterns of farmers suicides-

Text-Books:

- Grigg, D. (1984): An Introduction to Agricultural Geography, Hutchinson Publication, London
- Morgan, W. B. and Munton, R. J. C. (1977): Agricultural Geography, Methuen, London.
- Singh, J. and Dhillon, S. S. (1984): Agricultural Geography, McGraw Hill, New Delhi.
- Majid Husain (1996): Systematic Agricultural Geography, Rawat Publications, New Delhi.
- Symons, L. (1972): Agricultural Geogrpahy, Bell and Sons, London
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- Frankel, F. R. (1971): India's Green Revolution, Princeton University Press.
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- Amiya Kumar Bagchi (1982): The Political Economy of Underdevelopment, Cambridge University Press, UK.
- The Hindu (2006): Survey of Indian Agriculture 2006. New Delhi

Books for further Reading:

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- Bowler, I. R. (1992): The Geography of Agriculture in Developed Market Economy, Longman.
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- Chorley, R. J. and Hagget, P. (1071): Models in Geography, London

Isard, W. (1956): Location and Space Economy, Massachusetts: MIT Press.
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M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:B11- Geography of Trade

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Geographical bases of trade

Contact Hours 18

- 1.1 Environmental bases-Social production of spaces and flows of exchange - Geographical division of labour and dynamics of interdependence.
- 1.2 Origins and forms of exchange in simpler societies – Ancient trade regimes a cross-cultural review, Pan Indian trade in pre-colonial period.
- 1.3 Comparative cost advantages and doctrine of free trade- Classical, neo-classical and contemporary theories of international trade- A critical review- unequal exchange and core-periphery structures.
- 1.4 Trade barriers and terms of trade- Bi-lateral and multi-lateral trade relations - Typology and significance of trade integrations - Trade creation and diversion.

2.Spatial dynamics of International trade

Contact Hours 16

- 2.1 Colonial expansion of capital and trade in mercantile and post-industrial revolution periods- structuring of spaces of unequal exchange and dependency.
- 2.2 Fordist regime and international trade -Pre- and post-war trends– Bretton Woods System and Role of IMF, World Bank, UNCTAD and GATT- Terms of trade of the third world countries.
- 2.3 Policies of import substitution and export promotion – Structuring of world economy as core and periphery- Placing India.
- 2.4 Flexible accumulation and globalization- Restructuring of production spaces- role of MNCs - Changing patterns and composition of international trade flows.

3. Globalisation and Restructuration of International Trade

Contact Hours 16

- 3.1 WTO Regime – Strategies of TRIPS, TRIMs and the trade issues of the Global South.
- 3.2 Globalisation and Neo-liberal regime of trade- Impact on environment and livelihood resources in India- Global food chains.
- 3.3 Finance capitalism and international trade in services – Out sourcing and service exports growth in the semi-periphery and periphery – India’s competitive advantage
- 3.4 Cultural turn of global economy, production of spaces and flows of consumption- Growth of trade in experiences – World Tourism, recreation and leisure, multimedia as well as culinary products and services.

4. Contemporary Trade Integrations and India’s Trade relations:

(In-depth case study of any two of the following) Contact Hours 10

- a. Evolution of EU, its current challenges and implications for Indian economy
- b. NAFTA and India’s Trade regime
- c. APEC and Indo-China trade relations

d. Indian Placement in the SAARC – Challenges of SAFTA and beyond

Reference Books:

1. Conkling, E.G. and Thoman, R.C. (1967): Geography of International Trade, Prentice Hall Englewood Cliffs.
2. Berry, B.J.L. et.al. (1976): Geography of Economic Systems, Prentice Hall, Englewood Cliff.
3. Berry, B.J.L., (1967): Geography of Market Centres and Retail Distribution, Prentice Hall, Englewood Cliff.
4. Gibb, R. and Michalak, W. (eds.) (1994): Continental Trading Blocks: the Growth of Regionalism in the World Economy, Chichester, Wiley.
5. Cole, J.P. (1983): Geography of World Affairs, Butterworths, London.
6. Knox, P., Agnew, J. and McCarthy, L. (2003), (3rd Edition), 'The Geography of World economy', Arnold, London.
9. Frank, A.G. (1978): Dependent Accumulation and Underdevelopment, McMillian, London
10. Bryson, J., Henry, N., Keebly, D. and Martin, R. (1999): The Economic Geography Reader, John Wiley and Sons Limited, Chichester.
11. Hoekman, B.M. and Kostecki, M.M. (1996): The Political Economy of World Trading System: From GATT to WTO, New York, Oxford University Press.
12. Page, S. (1994): How Developing Countries Trade, Routledge, London.
13. Shulz Michael, Fredrick Soderbaum and Joakim Ojendal, (eds.), 2001, 'Regionalisation in a Globalising World – A Comparative perspective on Forms, Actors and Processes', Zed Books, Newyork.
14. Andre Gunder Frank, (1975): 'On capitalist Underdevelopment', Oxford University Press.
15. Caroline Thomas and Peter Wilkin (ed.) (1997): 'Globalization and South', Macmillan Press Ltd.
16. Desai Vandana and Potter B. Robert, (eds.) (2011): 'The Companion to Development Studies', a Hodder – Viva Edition, London.
17. Power Marcus, (2003): 'Rethinking Development Geographies', Routledge, London.
18. Summer Banks, 2010, ' Developmental Geography', Apple Academic press.
19. Stuart Corbridge, 1995, Development Studies A Reader, Arnold.
20. George Ritzer, 2010: Globalization – A Basic Text, Wiley-Blackwell
21. R.J. Johnston, Peter J. Taylor and Michael J. Watts, (eds.) (2002): Geographies of Global Change, Blackwell Publishing
22. Neeraj Jain, 2001, ' Globalisation or Recolonisation?', Elgar, Pune.
23. Ahmed Sadiq, Kelegama Saman, Ghani Ejaz, 2010, 'Promoting Economic Co-operation in South Asia- Beyond SAFTA',

Books for further Reading

1. Emmanuel, A. (1972): Unequal Exchange: A Study of the Imperialism of Trade, London, Verso.
2. Agnew, J. and Corbridge, \$.(1995): Mastering Space: Hegemony, Territory and International Political Economy, London, Routledge.
3. Storper, M. and Scott, A,(1992). Pathways to Industrialisation and Regional Development.
4. Harris-White, B. (1996). A Political Economy of Agricultural Markets in South India, Masters of the Countryside, Sage, New Delhi.

5. Cammanu, L. (1992): Traditional Market Systems, D.E.S.munich.
6. Josling, T. (1998): Agricultural Trade Policy, Completing the Reforms, Institute for International Economics, Washington DC.
7. Abbott, J. (ed.)(1993): Agricultural and Food Marketing Developing Countries, Selected Readings, C.A.B.International and Technical Centre for Agriculture and RuralCo-operation,
8. Reddy, D.N., Singh, S. and Arora, D. (eds.)(2002). Political Economy of WTO Regime, Some Aspects of Globalisation and Governance, Indian Political Economy Association, Rainbow Publishers, New Delhi.
9. Krugman, P. R. (1996): Rethinking International Trade M.J.I. Press, (5th Print).
10. Pereira, W. and Seabrook, J.(1994): Global Parasites, 500 Years of Western. Culture, Earthcare Books, Mumbai.
11. Hoogvelt, A.M.M. (1997): Globalisation and the Post Colonial World: The New Political Economy of Development, MacMillan, London.
12. Hoogvelt, A.M.M. (1982): The Third World in Global Development, MacMillan.
13. Bagachi, A.K. (1982): The political Economy of Underdevelopment, Cambridge.
14. Gamble, Andrew and Payne, A.(eds.)(1996). Regionalism and World Order, MacMillan, London.
15. Kenwood, A.G. and Lougheed, A.L. (1983): The Growth of the International Economy 1880-1980, Allen and Unwin.
16. Braudel, R. (1979): Civilization and Capitalism, 15th-18^m Century-Vol I-The Structures of Everyday Life, Vol. II, The Wheels of Commerce, Vol. III, The Perspective of the World, William Collins Sons and Company Limited and Harper and Row, New York, 1984, (English Version).
17. Potter, R.B., Binns, T., Elliott, J.A and Smith D.(1999): Geography of Development, Longman.
18. Amit Bhaduri, (2006): 'Development with dignity A case for full employment', National book trust of India.
19. Ajit Muricken, (1997): 'Globalization and SAP Trends and impact An Overview', Vikas Adhayan Kendra Mumbai.
20. Ankie Hoogvelt, 2001: 'Globalization and the postcolonial world The New Political Economy of Development',
21. Baldev Raj Nayar,(2007): 'The Geopolitics of Globalization The consequences for Development', Oxford University Press.
22. David Harvey, (1999): 'The Limits to capital', Basil Blackwell, Oxford.
23. David Harvey, (2001): 'Paces of Capital towards a critical Geography', Edinburgh University Press.
22. Eleonore Kofman and Gillian Youngs, (2003): 'Globalization : Theory and Practice', Continuum London.
23. Dias Anthony, 2012, 'Development and its Human Cost', Rawat, Jaipur.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:B12- Geography of Transport

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

I Spatial Context of Transport

Contact Hours 18

- 1.1 Interdependence and social production of mobility conditions –nodes, networks and flows as spatially constituted and space forming structures- Typologies and Characteristics- Role of Distance.

- 1.2 Evolution of contemporary transport systems and transport modes – technological advances and modernisation – Global trends in colonial and post-colonial periods.
- 1.3 Globalisation and dynamics of spaces of production and consumption- Time and space convergence and uneven geography of transport, accessibility and mobilization.
- 1.4 Emerging Themes and Approaches to Geography of Transportation – Relevance of transport geography in planning and development.

2. Transport cost as a variable in locational theory Contact Hours 20

- 2.1 Factors influencing transport cost- Comparative cost structures major modes and systems of transportation - Role of public and private sectors - State policies and institutional regulations
- 2.2 Location of routes and efficiency of networks- Structuring of nodal hierarchy- Competition and complementarity between modes of transportation and networks- Examples from developed and developing countries.
- 2.3 Critical review of locational theory and role of transport cost - Structural properties of transport networks - Relevance and applicability of graph theory measures – Relevance of Evolutionary models
- 2.4 Spatial interaction and gravity models- Agglomeration-urbanisation and transport development- Growth of transportation and diffusion process – Hagerstand’s model – A critical review.

3. Contemporary Dynamics of International and Regional Transportation

- 3.1 New International Division of Labour- MNCs and Changing patterns of International Trade –Commodity flows and multi-modal transport chains
- 3.2 Commodity Chains and freight transportation – flexibility and structuring of freight distribution systems - typologies of the network strategies
- 3.3 Rapid Urbanisation in the Global South – Changing urban economic base, landuse and urban structures – consequent dynamics of uneven transport development.
- 3.4 Transport and environmental impact - Intermodal and intra-modal patterns and levels of energy consumption- adoption of alternative fuels – environmental impact assessment – sustainable transport systems

4. Geography of Transport in India

- 4.1 The colonial transport systems and regional patterns – metropolitan dominance and the core-periphery imbalance - broad patterns of rail, road, water and air transportation
- 4.2 Institutional transport regimes and transport planning – Privatisation and liberalization- Changed policy perspective- Role of Global players - Implications of JNNURM in Indian cities.
- 4.3 Development of private motorized road transport – Construction of flyovers and free-ways –The Industrial corridors and issues of flouting of scale and bypassing development
- 4.4 Issues of Transport Development in Mumbai and MMR.

Reference Books:

1. Rodrigue Jean-Paul, Comtois Claude and Slack Brian, 2006, ‘The Geography of Transport Systems’, Routledge.
2. Black, W., 2003, ‘Transportation: A Geographical Analysis’, New York, Guilford.

3. Hoyle B. and R. Knowles, 1998, 'Modern Transport Geography, 2nd Edn., Wiley, London.
4. Tolley R. and B. Turtle, 1995, 'Transport systems, Policy and planning, A Geographical Approach', Harlow: Longman.
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**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B14- Geography of Work Spaces

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Spatial context of Work, Workers and labour

- 1.1 Spatial divisions of labour and Social Relations – Relevance of Geography of Work spaces.
- 1.2 Evolution of World economy–restructuring capitalist mode of production- Comparison between Fordist and Post- Fordist Regimes - flexibilising labour markets and economic spaces
- 1.3 Typology, Similarities and differences between work, workers, skills and management, wages and work-places and spaces- Situating labour in the capitalist production process.
- 1.4 Employment relations in the workplace- Problem of labour control and reproduction social regulation – institutional framework- Segmented labour markets – workers and workplaces.

2. Labour in an Interdependent World- Placing, Spacing and Scaling

- 2.1 Interdependence, porosity and permeability of workplace - Place-boundness of workers.
- 2.2 Territoriality of production- uneven and casual interrelations -Types of structure and links- Place, agglomeration and economic growth-
- 2.3 Worker- employer nexus- Local social relationships- Place and class identity and class action of workers.
- 2.4 Contextualising place and space interface of labour – multiscalar connections – Significance of scale and its social construct – re/scaling and its implications- Geography of worker politics.

3. Agency of Labor and Organizing in Place

- 3.1 Re/placing labour- mechanisms of labour control – Hegemonic regime and scaling – Role of the State- Illustrations from the Global South
- 3.2 Agency of labour and organizing in place- workers and local coalitions – labour working in place with others – From progressive to regressive localism- back again
- 3.3 Displacing labour – labour migration- a geographical strategy- Economic- socio-cultural and political consequences
- 3.4 Up-scaling worker action- Transcending the local: national unionism- New internationalism-boarderless solidarity – problems and prospects- Beyond workers- social movement politics- Progressive translocalism.

4. Indian Context

- 4.1 Workers and workplaces in India- A historical perspective- Growth of modern industry- Constraints- Bi-polarity and segmentation of labour markets- Regional disparity.
- 4.2 Globalisation- Deindustrialisation- Growth of Service Sector in India- Changing nature of work and workspaces in Indian metropolitan economies- Any one case study a. Textile Industry in Mumbai and Malegaon; b. Automobile Industry in Gurgaon Delhi; c. IT industry in Pune/ Bangalore; d. Tiffin carriers of Mumbai
- 4.3 Work spaces and Gender dimensions – Any one case study Women workers in a. Garment export industry; b. Electronic Industry; c. Women in Indian Civil Services; d. Vegetable selling in streets
- 4.4 Informal Work places in Dharavi/ Shivajinagar- Baiganwadi/ Bharatnagar- Kismatnagar- in Mumbai

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- Further Reading:
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**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B15- Geography of Marketing and Consumption

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1.Marketing and consumption Interrelations

- 1.1 Conceptualisation: Embeddedness Spatialities, Socialities, Subjectivities and Identities- Typologies – Networks and flows, Inclusion and exclusion.
- 1.2 Evolution of modern marketing and consumption- Fordist and Post-Fordist forms and patterns –Trends in Global north and south.
- 1.3 Theories of marketing and Consumption –A Critical Review.
- 1.4 Marketing Geography and Geographies of Consumption- emerging areas of research and trends.

2.Spatio- Social Context

- 2.1 Space-Place and scale – production of spaces and sites of marketing and consumption - Economic, political, social cultural dimensions- Typologies of sites and forms.
- 2.2 Segmented spaces of marketing and consumption –Urban and rural, Formal and informal, Ethnic and community spaces, Mass and Niche spaces; Virtual, cyber-spaces,
- 2.3 Spaces of conspicuous and inconspicuous consumption- Holidays, Leisure and consumption of spaces- Deprivation and exclusion from consumption-

2.4 Display and Identity Formation in Marketing and consumption, aspects of positionality, embodiment and emplacement – House and body as sites of consumption - Placing consuming identities-

3.Connections

- 3.1 Interdependency of spaces of work and consumption in the era of globalization- Role of the State, MNCs and Supranational Institutions - Commodity chains: the global, regional and local context.
- 3.2 Producer and buyer led commodity and service chains - typologies - Commodity circuits – Actor-network structuration- Politics and Connectivities in marketing and consumption.
- 3.3 Structures, links and organization global commodity Chains- Examples of Nike and Wal-Mart- FDI policy and Retail trade in India.
- 3.4 Agribusiness and food bazaars as spaces of consumption – Co-existence of weekly markets, street selling, green grocery shops and Malls in Indian cities

4. Commercial Cultures and Moralities:

- 4.1 Time and Space convergence, distanciation and compression- cultural imperialism and consumption -Americanisation of commercial spaces – McDonaldisation of culinary cultures.
- 4.2 Creolization and hybridity of commercial cultures- a multiscalar phenomena- Spread of Punjabi Dhabas, Udipi Restaurants and Chinese Food outlets – Fusion in Indian music and dance.
- 4.3 Contradictions and moralities of Consumption - Tourism and Recreation and Commodification of Culture; Consumption of spaces in Goa- Networks and Spaces of Sex trade in Nepal.
- 4.4– Experiencing a mall in Mumbai; Inclusion and exclusion – experiencing street food in slums of Mumbai

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Books for further Reading

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 10. Ann Markusen, 1999, 'Sticky Places in Slippery Space: A Typology of Industrial Districts', pp 191-200.
 11. Ash Amin and Nigel Thrift, 'Neo-Marshallian Nodes in Global Network', pp 175-182.
 12. Sassen Saskia, 1999, 'Place and Production in the Global Economy', pp252-256.
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 15. Ian Cook, 1999, 'New Fruits and Vanity: Symbolic Production in the Global Food Industry', pp. 301-06
 16. Paul, L. Knox, 1999, 'The Restless Urban Landscape: Economic and Sociocultural Change and the Transformation of Metropolitan Washington, DC', pp. 307-310
 16. Neil Wrigley and Michelle, 1999, 'New Landscapes of Consumption', pp. 311-314.
 17. John Goss, 1999, 'The Magic of the Mall': An analysis of Form, Function, and Meaning in the Contemporary Retail Built Environment, pp. 315-326
 18. John Clammer, 1999, 'Aesthetics of the Self: Shopping and Social Being in Contemporary Urban Japan, pp 327-332.
 19. Nigel Thrift and Andrew Leyshon, 1999, 'In the Wake of Money: The City of London and the Accumulation of Value
 20. Debajani Sahoo, Hari Govind Mishra, 2008, 'Organized Retail in India: A case study of Wal-Mart', *Indian Journal of Marketing*, pp. 35-36
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M.A./ M.Sc. Credit Based Grading System Geography - Semester IV

403/ 404:B16- Geography of Services with special reference to India

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Contemporary Service Industry

- 1.1 Evolution of Contemporary World Economy – Globalisation of Production Systems- Growth of Service Industry – Uneven development.
- 1.2 Definition and Typology of Services –Interrelation with production and consumption- Time and Space Convergence- Compression
- 1.3 Theories and Conceptualisation- A Critical Review: Fischer-Clark thesis; Howell's notion on service encapsulation - Information and knowledge content and extended division of labour.
- 1.4 National and global stimuli to growth of services; Service outsourcing- benefits and drawbacks – Limits to service export growth in periphery.

2. Geography of Services: Sectoral Illustrations

- 2.1 International trade in services- Transnational Investment Patterns- agglomeration and new business service concentration- Research and Development
- 2.2 Internationalisation of Services – Networks- Flows and Spatial structures- Sectoral Trends in Retailing, Tourism , Finance and Banking
- 2.3 Internationalisation of services- Sectoral trends in transport, telecommunication and media.
- 2.4 Internationalisation of services- Sectoral trends in Social and Community services- Health, Education, Culture

3. Outsourcing of Services in the Global South

- 3.1 Spatial dynamics of Business Processing Outsourcing in the Global South- corporate structures, specialization and locations – Patterns in Latin America, Asia and Africa.
- 3.2 Growth of India's service industry – sectoral trends, product composition and regional pattern

3.3 IT sector and Business Process outsourcing in India – India's Competitive advantage and growth trends, Corporate Structure and flexible mode of production- Role of unorganized sector- gender dimensions.

3.4 Spatial Dynamics of the IT sector – De-industrialisation- Growth of Mega city, InfoTech Parks and Real Estate Sector- Interrelations- Growth in the Peri-urban regions.

4. Service sector growth in India- Contradictions and contestations

4.1 New forms and spaces of consumption and production of social space in Indian cities - Rise of middle class- Gated cities, malls, Farm houses and water parks.

4.2 Deindustrialisation and shifting cities- displacement and dispossession – Urban redevelopment and slums – The Case of Mumbai

4.3 Service Industry and spatio-social restructuring in the peri-urban regions of the mega cities- Policy of SEZ and its impact – Illustrations from Mumbai/ Kolkata/ Delhi

4.4 Space- place interface and socio-economic placement of workers in contractual and informal services in Mumbai- A case study of any one:

a. Sales workers in malls, b. Domestic maids, c. IT sector female worker, d. Barber on the street, e. Nursing provider, f. Food caterer

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Related Websites

1. ChinaToday.com: <http://www.chinatoday.com/> this commercial website offers a variety of material and hyperlinks to even more information about trade and investment in services in China, Department of Information Technology, Ministry of Communications and Information Technology.
2. Government of India: <http://www.mit.gov.in/> India's Department of Information Technology (DIT) is part of the country's Ministry of Communications and Information Technology. Its main objective is to help make India a major global information technology player. The DIT website offers information and data on India's IT sector

3. International Labour Organization: <http://www.ilo.org/> this UN agency offers research and data on labour issues around the world, including information related to the services sector

4. United Nations Conference on Trade and Development (UNCTAD): <http://www.unctad.org/en/enhome.htm> UNCTAD's website offers publications and data on trade, investment and economic development issues, including the latest edition of the *World Investment Report*, which contains information and data on TNCs and FDI as they relate to the services sector

5. World Tourism Organization (WTO): <http://www.world-tourism.org/> this UN agency and leading international organization in the field of tourism serves as a global forum for tourism policy issues and a practical source of information and data on tourism

**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B17- Geography of Telecommunication and Media

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Space, Communication and Media Interrelation **Contact Hours 15**

- 1.1 Contextualising communications: Visualising Media in spaces and Spaces in media; Places in media and media in place- Space as container of communications and contained in communications.
- 1.2 Evolution of forms and technologies and typologies of communication- orality, writing and language systems; printing to electromagnetic signal- Print, space and action interface
- 1.3 Telegraph and invention of transmission – the telephone and territorial struggles- Radio and broadcasting- Transport and communication interface –Uneven patterns of communication and diffusion modernization.
- 1.5 From Fordist to flexibilised forms of capital accumulation telecommunication and internet technologies- production of spaces of time and space convergence and divergence.

2. Communication Flows and Topologies **Contact Hours 15**

- 2.1 Typologies and models of communication flows and flowmations - The weaver and shanon model, the two step model, - Time-space interface- Plasticity of space – Model of the process of spatial reorganization.
- 2.2 Topologies of communication - Network Theory and Geography – Central places in network theory- a space of flows- power relations.
- 2.3 Boundaries in communication- media networks - process and patterns of inclusion and exclusion- Typologies – Body specific; Socio- cultural; political; institutional; socio-technical – Indian examples.
- 2.4 Virtuality – cyberspace- Uses and gratification theory, Internet applications and cyberplaces- URL as virtual territory- Spaces of fantasy – Virtual spaces of ethnic identities – Virtual networking and social movements and political mobilisations.

3.Communication - Media and Sense of Place and the Place Image

Contact Hours 15

- 3.1 Text, signs, symbols and signals as the atom and molecules of communication building human experiences- Structuration of complex, hybrid sense of place- Role of cartography and maps.
- 3.2 Building place image- place as representation- territoriality- Enmeshment of Time- - Landscape images – product of direct and mediated experiences across time – memory of landscapes.
- 3.3 Media's role in internalizing and externalizing sense of place – The case of television; - Subjection to power relations- Structuration theory –Limitation.
- 3.4 Place and the power of communication- aspects of evasion and appropriation- cultural hegemony and subaltern representations- subjectivity, place and communication

4. The Indian Context

Contact Hours 15

- 4.1 Growth of telecommunication and patterns of connectivity- regional imbalances and

space.

- 1.3 Power structures, administrative hierarchies and delimitation of electoral constituencies; Fluidity, distortion and bias- Gerrymandering and malaapportionment
- 1.4 Electoral Geographies - Development of thoughts, contemporary approaches: From Mapping of Voters' Behaviour to Geographies of Representation- addressing inequality.

2. Electoral Geographies: the World View and Indian Experience

Contact Hours 15

- 2.1 Electoral processes and voting behavior in the Globalised North and Globalising South: Relevant illustrations
- 2.2 Evolution of India's Electoral Space in Colonial and Post-Independence Phase – Indian constitution, citizenship, electoral mechanism and voting rights.
- 2.3 Centre-State relationship- array of Linguistic States and union Territories –Size factor- Politics of electoral seats - North-South and east-west divide- Boundary issues.
- 2.4 India's Political Space – Centrist, right and left wing party rule- from single party to the coalition governments – Rise of regional political parties: Pre and post-emergency trends.

3. Production of India's Electoral Spaces:Regional and local dimensions

Contact Hours 15

- 3.1 Identity politics and embeddedness of electoral spaces- Role of religion, caste, language and gender.
- 3.2 Reservation policies and spatiality of reserved electoral constituencies across the Indian states- Caste and Gender dimensions.
- 3.3 Uneven development, regional imbalances and uneven diffusion of democracy- insurgency, militancy and challenging electoral spaces- North Eastern and Central Indian States.
- 3.4 Spatial dynamics of urbanisation, migration and class differentiation–Electoral spaces in Indian mega cities

4.Voting Behaviour and Geographies of Representation in India: A Multi-scalar analysis.

Contact Hours 15

- 4.1 Spatio-social analysis of election results, the post 1990 trends: Electoral Issues and voting behavior in Parliamentary and assembly elections – Illustrations from select Indian states
- 4.2 Issues of Local elections and voting patterns – Rural- urban context: the case of Maharashtra and Mumbai
- 4.3 Pre and Post-election poll surveys and prediction of voting behavior– Vote-seat Proportions- Recent illustrations - A Critical Analysis.
- 4.4 Tools and techniques of electoral Geography: Typology and nature and sources of data -Use of maps, Application of quantitative analysis and Geo-informatics.

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- and Power', Sage, Los Angeles.
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 24. Thorns, D. C. (1992): *Fragmenting Societies*, Routledge.
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 27. Johnston, R J. (1982). *Geography and the State*, MacMillan.
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40. Sanjeer Alam (2008): "Intra-State Parity and Selection of Reserved Seats", *Seminar*, Issue no. 586

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21. Mercer, Claire (2002) 'NGOs, civil society and democratization: a critical review of the literature', *Progress in Development Studies*, 2(1): 5-22.
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46. Johnston, Ron, and Charles Pattie, 2006, 'Putting Voters in Their Place: Geography and Elections in Great Britain', Oxford Geographical and Environmental Study Series. London: Oxford University Press, 2006.

**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B19- Geography of Tribes with special reference to India

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Tribes and tribal communities- Perspectives in time and space.

(A Historical Perspective)

Contact Hours 15

- 1.1 Race, Ethnicity and Tribes – Contemporary Global Distribution of Tribes.
- 1.2. Differentials in tribal living – Location, environment, economy, society and culture of tribes .

- 1.3 Social organisation and control.
- 1.4 Case studies of selected tribal communities from two continents.
(Every three years two different specific continents may be prescribed for keeping uniformity)

2. Tribes in India

Contact Hours 15

- 2.1 Tribes of India- Locational and environmental ,– Demography of tribes : Major and minor areas of concentration – Characteristics and classification.
- 2.2. Differentials in characteristics - Economic activities and associated status Occupational characteristics of tribals in India – Social mobility - Case studies.
- 2.3. Issues of integration and marginalization – Analysis of development projects and the placement or Displacement and resettlement of tribals .
- 2.4. Case studies of relevant projects.

3. Tribals and mainstream development :

Contact Hours 15

- 3.1. Study of scheduled and non scheduled tribes
- 3.2 Tribals in various sectors of economy and society
- 3.3. Tribal movements – Historical perspectives – Social, economic, political and ecological issues .
- 3.4. Tribal Development Policies in India- Colonial and post- colonial policies: Nature, parameters and objectives - Impact of such policies on tribals- A Review.

4. Intensive case study of specific tribes in India. (with special reference to Maharashtra)

Contact Hours 15

Text Books ;

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- 2 Boss, N.K.(1971): Tribal life in India, National Book Trust, New Delhi.
- 3 Chkravarty, M, Mukherjee, D,(2009), Indian Tribes, SARaswat library, Calcutta.
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6. Pati, R N. and Jena B (1989) Tribal Development in India, Ashish Publishing House, New Delhi.
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**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B20- Geography of Crime

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60 = Total hours 120

1. Spatio-Social Perspectives on Crime 15 Hours

- 1.1 Crime as a socially constructed and spatially embedded act – Concept, Definitions
Typologies of Crime- Interrelation with social inequality and underdevelopment.
- 1.2 Teleological bases- Dynamics of value system and morality -institutional regulation of criminality and deviance, Evolution of political, legal and judiciary systems - Democracy and secularisation – Social justice, human rights and Crime
- 1.3 Capitalist modes of production – Flexibilisation of economy – Time and space convergence and post-modernity- Neoliberalism – spatial dimension of crime – Contemporary trends.
- 1.4 Theories of Crime and space–Anomie; Cultural transmission, Crowding; labeling and conflict theory; Power differential, A Critical review.

2. Place and Space in Crime 15 Hours

- 2.1 Emplacement in Crime- The built environment, Local subculture and locales of crime - Mobility conditions and places of crime and criminals – regional patterns of crime in India.
- 2.2 Systemic violence- implications of sex, age, religion, race, caste and class: illustrations of sexual violence, child abuse, racist violence; homophobic violence, elder abuse – World trends
- 2.3 Geographies of crime and fear- Use of space; Place, space and social identity – socio-spatial exclusion.
- 2.4 Gender and crime- patriarchy and sexual violence– Femininity, masculinity and spatial expression of fear of violence – Rapes, domestic violence, - homosexuality and crime.

3. Scale, Power, Social Space and Crime; Inter-relations 15 Hours

- 3.1 International Order and Crime- Patterns of flesh trade, drug trafficking – Geopolitics, war and crime- Partition and violence.
- 3.2 World patterns of terrorism – terrorism and violence in India
- 3.3 Ethnic strife in South Asia – Communal riots in India - State Oppression, peoples' protest and violence – Indian examples.
- 3.4 Crime, Justice and the state – Police, prosecution, Judiciary, legislation and administration efficacy in space and society- Indian context.

4. Geography of Crime in Mumbai

15 Hours

- 4.1 Rise of Mumbai as a mega city – Production of economic and social space - Deindustrialisation – neoliberalism and urban transformation
- 4.2 Typologies, Patterns and spaces of crime in pre-textile strike phase, Illegal construction and property crime – violation of CRZ.
- 4.3 Communal riots and terrorists attacks in Mumbai
- 4.4 Trends of sexual violence and crime against women

References:

1. Pain Rachel, Barke Michael, Fuller Duncan, et. al., (2001), 'Introducing Social Geographies', London, Arnold.
 2. Clinard Marshall B. and Abbott, D. J. (1973), 'Crime in Developing Countries: A Comparative Perspective, Wiley International, 1973.
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 11. Shaban Abdul, 2010, 'Mumbai Political Economy of Crime and Space', Hyderabad, Orient Blackswan
- Further Reading**
1. Crawford, A, (1998), 'Crime Prevention and Community Safety', London, Longman
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 2. Munae, J and McLaughlin, E, (eds.) (1996), 'The Problem of Crime', London Sage
 3. Pain, R, (2000), 'Place, social relations and the fear of crime, a review', Progress in Human Geography 24(3)
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Websites:

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**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:B21- Geography of Knowledge and Power

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Evolution of Geography of Knowledge and Power- A Critical Perspective

1.1 Imagined Geographies as knowledge forming process- Imagining body as space-imagining differences- Euro-centrism in production of knowledge regimes – textualities of the world.

1.2 Orientalism as a subordinated ontology of knowledge and structuration of colonial power regimes- Differentiated discourses of the Orient- Critique.

1.3 European Enlightenment- separation of man and nature – development of science and technology- academia and colonialism- Racism and Social Darwinism – an apology to Imperial capitalism

1.4 Travellers' tales and Exhibiting World –Distorted singular reconstruction of the diverse multiculturalism of the Orient- Fractures in the representations.

2.Landscapes of Power and Power in Landscapes

2.1 Conceptualising power in landscapes – Gazes of power and establishing knowledge of power through gazing the colonial landscapes- interpretations by Foucault- a Critical appraisal.

2.2 Geographers' contribution towards cartography and maps as the creation of Abstract Spaces and strengthening imperial powers – Lefebvre's concept on production of space – and control of social reproduction- Colonial landscape, work and the body- Landscapes as homes.

2.3 Decolonisation process- Dialectics of knowledge transfer – Motivations for a third alternative power structure- Tricontinentalism- Hybrid identities- the non-alignment movement; pan-Africanism; Arab-nationalism as examples.

2.4 The New World Order- led by the USA- Marshall plan and Reconstruction of European economies – Containment of the USSR- Modernisation and structuring of the Three Worlds.

3.Globalisation, Regulation Approach and the Politics of Scale 15 Hours Teaching

3.1 Contextualising Scale – Internationalisation and destatisation –The Regulation Approach- Separation of State and Capital- Aspatial context of regulation

3.2 Geographic division of labour – Scale division of labour- The movement of Capital through successive stages of fixity and movement – Beyond Internationalisation

3.3 Conceptualising relational space- Typologies-embodiment of action- actor's contextualization- embeddedness of space in social practice- Relationality and geographical knowledge.

3.4 Scalar confusion- flows and relational links –Actor-network theory- Emergence- From actors to network – Associated actions- Network space- Territorialisations of social relations

4.Globalisation- Cultural Imperialism

4.1 Placing question of Scale – A discourse of the diverse economy – Cultural Imperialism- Consuming the Other – Illustrations- Film; Fashion; Tourism

4.2 Geographies of Cultural Imperialism and Power Geometry – Representation- Subjectivity and Power- Speaking for 'others'; Geographies of Understanding- Relevance of Hybrid identities.

4.3 Postcolonial Feminism- exploitations by patriarchy; global economic systems; race; class and caste – Comparative significance of Geographic and culture specific situated knowledge

4.4 Dis/ Ordering Space – The Case of Food- Spaces of Fast food- Spaces of slow food – Networks and flows – actors and action spaces- Spaces of Consumption - Risk and Relationality.

References:

1. Murdoch Jonathan, 2006, Post-structuralist Geography, Sage
2. Sharp Joanne, 2009, 'Geographies of Postcolonialism – Spaces of Power and representation', Sage.
3. Herod Andrew and Wright Melisa W. 2002, 'Geographies of Power – Placing Scale', Blackwell Publishing.
4. Aitken Stuart and Valentine Gill, 2006, 'Approaches to Human Geography', Sage.
5. Doreen Massey, John Allen and Sarre Philip, (eds.), 1999, 'Human geography Today', Polity Press.
6. Cloke Paul, Philip Crang and Mark Goodwin (eds.), 2004, 'Envisioning Human Geographies', London, Arnold.
7. Dear Michael and Flusty Steven, (eds.), 2002, 'The Spaces of PostModernity', Blackwell Publishing.
8. Clifford Nicholas J., Holloway Sarah, Rice Stephen P.(eds.), 2009, 'Key Concepts in Geography', Sage.
9. Harvey, D. (1989), 'The Condition of Postmodernity, An Enquiry into the conditions of Cultural Change, Blackwell
10. Harvey, D. (1982), Revised (2007), 'The Limits to Capital',
11. Harvey, D. (2001): 'Spaces of Capital: Towards a Critical Geography', Edinburgh University Press.
12. Harvey David, 2002, 'Spaces of Hope', Edinburgh University Press.
13. Hubbard Phill, Kitchin Rob, Bartley Brendan and Duncan Fuller, 2002, 'Thinking Geographically –Space, Theory and Contemporary Human geography', London, Continuum.
14. Cloke Paul and Johnston Ron, 2005, 'Spaces of Geographical Thought', Sage.
15. Barnes trevor and Gregory Derek (eds.), 1997, 'Reading Human Geography – The Poetics and Politics of inquiry', London, Arnold.

Additional Reading:

1. Leyshon Andrew, Roger Lee and Collin Williams, 2003, 'Alternative Economic Spaces', Sage.
2. Kohli Atul, 2004, 'State Directed Development - Political Power and Industrialisation in the Global Periphery', Cambridge University Press
3. McChesney Robert, W., Wood Ellen Meiksins and John Bellamy Foster, 2001, 'Capitalism and the Information Age, The political economy of the global Communication Revolution', Cornerstone Publications, India and Monthly Review Press, New York.
4. Agyeman Julian, Robert D. Bullard and Evans Bob, 'Just Sustainabilities – Development in an Unequal World', (eds.), 2003, Earthscan.
5. Smith Neil, 1996, 'The New urban Frontier – Gentrification and the Revanchist City', London, Routledge.
6. Noel Castree Neil M. Coe, Ward Kevin and Samers Michael, 'Spaces of Work: Global Capitalism and the Geographies of Work', Sage.
7. Bryson John, Henry Nick, Keeble David and Martin Ron, (eds.) (1999): The Economic Geography Reader- Producing and Consuming Global Capitalism, John Wiley and Sons Ltd., New York.
8. Leyshon Andrew, Lee Roger, McDowell Linda and Sunley Peter, 2011, 'The sage Handbook of Economic Geography', Sage.

Reference Books:

1. Peet, R. (1998): 'Modern Geographical Thought', Blackwell.
2. Lefebvre, H. (1991): The Production of Space, Blackwell, (Translated by D. Nicholson-Smith).
3. Harvey, D. (2001): 'Spaces of Capital: Towards a Critical Geography', Edinburgh University Press.
4. Harvey, D. (1991): 'The Condition of Postmodernity- An Enquiry into the conditions of Cultural Change,' Blackwell
5. Harvey, D. (1969) Explanation in Geography, Edward Arnold.
6. 'Blunt, A. and McEwan, C. (2002): 'Postcolonial Geographies', Continuum.
7. Unwin, T. (1992): 'The Place of Geography', Longman.
8. Cloke, P. et. al., (eds.), (1999): 'Introducing Human Geographies', Arnold.
9. Peet, R. and Thrift, N. (eds.): 'New Models in Geography, Vol. I and II, Unwin Hyman.
10. Livingstone, D. N. (1992): 'The Geographical Tradition', Oxford: Basil Blackwell.
11. Arild Holt-Jenson- History and concepts in Geography: A Student's Guide', 2009, 4th Edn., Sage.
12. DeLyser Dydia, Herbert Steve, Aitken Stuart, Crang Mike and McDowell Linda (eds.), 2010, The Sage Handbook of 'Qualitative Geography', Sage.
13. Leyshon Andrew, Lee Roger, McDowell Linda and Sunley Peter, (eds.), 2011, The Sage Handbook of Economic Geography', Sage.
14. Dear Michael and Flusty Steven, (eds.), 2002, 'Spaces of Post Modernity: Readings in Human Geography', Blackwell.
15. Gregory Derek and Urry John, 'Social relations and spatial Structures', 1985, Macmillan
16. Bonnett, Alastair, 2008, 'What is Geography', Sage.
17. Murdoch Jonathan, 2006, 'Post-Structuralist Geography', Sage.
18. Clifford Nicholas, Holloway Sarah, Rice Stephen and Valentine (eds.), 2nd Edn., 2009, 'Key Concepts in Geography', Sage.
19. Progress in Geography (1969-76): Volume 1 to 8, Arnold Edwards, London.
20. Taffe, E.J. (1970): Geography, Prentice Hall, Englewood Cliffs, New Jersey.
21. Hagget, P. (1983), 'Geography a modern Synthesis', Harper and Row.
22. Johnston, R.J., (1985), Future of Geography', Methuen.
23. Stoddard, D. R. (1986), 'On Geography, Basil Blackwell.
24. Unwin, T. (1992), 'The Place of Geography', Longman.
25. Barnes, T. and Gregory, D., 1997, 'Reading Human geography', Arnold.
26. Soja E., (1997), 'Postmodern Geographies- The Reassertion in Critical Theory', Rawat, New Delhi.
27. Massey, D., Allen, J., Sarre, P. (eds.), (1999), 'Human Geography Today', Polity Press.
28. Johnston R.J., Taylor, P.J. and Watts, M.J. (2002), 'Geographies of Change, Remapping the World', Blackwell.
30. Hoggart, K., Lorretta Lees and davies, A., (2002), 'Researching Human Geography', Arnold.
32. Moss, P., (2002), 'Feminist Geography in Practice: Research and Methods', Blackwell.
33. Mcdowell Linda, (1999): Gender, Identity and Place, Polity Press, U.K.
34. Mcdowell, Linda, and Sharp, Joanne P. (1997), 'Space, Gender and Knowledge', Arnold, U.K.
35. Harison, S. and Pratt, G. (1995): Gender, Work and Space, Routledge, U.K. and

U.S.A.

36. Massey, D. (1994): Space, Place and Gender, University of Minnesota Press, U.S.A.
37. Cloke, P., Cook, I, Crang, P., Goodwin, M., painter, J., Philo, C., (2004), Practising Human Geography, Sage.
38. Banerjee-Guha, S. (2004), Space, Society and Geography, Rawat, New Delhi.
39. Benko, G. and Strohmayer, U. (2004), Human Geography, a History for the 21st Century, Arnold, London.
40. Cloke, P., Crang, P., Goodwin, M., (2004), Envisioning Human Geographies, Arnold.
41. Cloke, P. and Johnston, R., (eds.), (2005), Spaces of Geographical Thought, Deconstructing Human Geography's Binaries, Sage.
42. Atkinson, D., Jackson, P., Sibley, D. and Washbourne, N. (eds.) (2005), Cultural Geography, A Critical Geography of Key Concepts, Tauris, I.B.
43. Aitken, S and Valentine, G. (2006), Approaches to Human geography, Sage.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C2- Theoretical Geography

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Geographical discourse

Contact Hours 15

- 1.1 Social construction of the discipline - Geography as a situated knowledge – Dichotomy and Exceptionalism - Areal differentiation, fragmentation and coherence.
- 1.2 Places of theory and geographical interest - Kuhn: paradigms and scientific revolutions- Foucault: truth and power - Habermas: power, knowledge and truth – Theory and practice in geography.
- 1.3 Geography and society - Classical context and non-formal age - Advent of classical formal geography. - Cartography and exploration.
- 1.4 Institutionalised geography - Emergence of geography as an academic formal discipline.

2. Geography as an empirical analytical science

Contact Hours 15

- 2.1 Systems and process- Logical positivism.
- 2.2 Process and form in physical geography
- 2.3 Environment and regional geography
- 2.4 Behaviorialism in geography - Approaches to systematic human geography.

3. Philosophy and Methodology

Contact Hours 15

- 3.1 Significance of philosophy and its placement- Methodology and explanation .
- 3.2 Theory building in geography- Explanation, relevance and social origins of concern
- 3.3 Geography as historical- hermeneutic science - Phenomenology and geography.
- 3.4 Spatiality and Time - Dialectic of space and time geography – Time-space and area – Social construction of space and time - Towards a humanistic geography.

4. Geography and the production of knowledge

Contact Hours 15

- 4.1 Radical geography and a structuralist alternative
- 4.2 Reality and realism in geography - Ideology and ethics
- 4.4 Post-structuralism and relational Space
- 4.4 Geography as a critical science - Towards a critical geography.

Reference-Books:

1. Davies, M.K.D. (1972)'Conceptual Revolution in Geography, University of London Press Ltd.
2. Unwin, T. (1992): The Place of Geography, Longman.
3. Barnes, T. and Gregory, D. (1997): Readings in Human Geography, Arnold.
4. Mitchell, B. and Draper, T. (1982): Relevance and Ethics in Geograpny, Longman.
5. Gregory₁ D. (1978):'Ideology, Science and Geography', Cambridge University Press.
6. Stoddard, D.R.(986): On Geography, Basil Blackwell.
7. Pickles, J. (1985): Phenomenology, Science and Geography, Cambridge University Press.
8. Carlstein, T, Parkes, D. and Thrift, N.(1978): Making Sense of Time, Edward Arnold.
9. Harvey, D.(1969): Explanation in Geography, Edward Arnold.
10. Hussain, M. (ed)(1993): Perspectives and Nature in Geography, Vol. I to V, Anmol Publications.
11. Haggett, P.(1983):Geography: A Modern Synthesis, Harper and Row.

Books for further reading:

1. Johnston, R.J.(1985):Future of Geography, Methuen, London.
2. Woolridge, S.W, and East W.G, (1970): Spirit and Purpose of Geography, Hutchinson University Library, London.
3. Harvey, D. (1985): Conciousness and the Urban Experience, Basil Blackwell
4. Harvey, D. (1973), (2009) (revised Ed.), 'Social Justice and the City, Geographies of Justice and social Transformation', The University of Georgia press
5. Harvey, D.(1989), 'The Condition of Postmodernity, An Enquiry into the conditions of Cultural Change, Blackwell
6. Harvey, D. (1982), Revised(2007), 'The Limits to Capital',
7. Harvey, D. (2001): 'Spaces of Capital: Towards a Critical Geography', Edinburgh University Press.
8. Harvey, D. (2005), 'A Brief History of Neoliberalism', Oxford
9. Harvey, D. (), 'Justice, Nature and Geography of Difference',
10. Harvey, D. (), 'Spaces of Global Capitalism: Towards a Theory of Uneven Geographical Development',
11. Harvey, D. (2010), 'A Companion to Marx's capital', Vol. I, Verso
12. Harvey, D. (2010), 'A Companion to Marx's capital', Verso, Vol. II
13. Harvey, D. (2011), 'The Enigma of Capital: And the Crises of Capitalism', Oxford.
14. Harvey, D. (2012) 'Rebel Cities, From The Right To The City To The Urban Revolution', Verso.
15. Harvey, D. (2013) Spaces of Hope (California Studies in Critical Human Geography),
16. Harvey, D. (2010), 'The New Imperialism', The Clarendon Lectures
17. Gate, S. andOlsoon, G. (1979): Philosophy in Geography' D. Reidel Publishing Co
18. Paterson, J.L.(1984): David Harvey's Geography' Croom Helm.
19. Carlstein, T, Parkes, D and Thrift, N.(1978): Human Activity and Time Geography, Edward Arnold.
20. Entrikin, J.N. and Brunn, S.D,(1989): Reflections on Richard Hartschorne's The Nature of Geography, Association of American Geographers.
21. Deskins, D. R. (Jr), Kish, G., Nystuen, J. D. and Olsson, G., (1977): 'Geographic Humanism, Analysis and Social Action', Michigan University.
22. Hussain, M. (1990): Evolution of Geographic Thought, Rawat Publications,
23. Taaffee, E. (ed)(1970): Geography, Prentice Hall.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C4 - Computer Cartography

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

1. An overview of development of digital computer systems Contact Hours 10

- 1.1 Progressive and adaptation of hardware and software for handling and display of spatial data
- 1.2 Principles of mapping: fundamental attributes of maps
- 1.3. Elements of map design and layout, scale, techniques of representation and Symbolization
- 1.4. Map projections: properties and choice , Map as medium of communication

2. Data source and Basic analytic Geometry Contact Hours 15

- 2.1. Sources of data for mapping: traditional and modern sources -Integration of data from different sources
- 2.2. Cartesian coordinates, vector matrices
- 2.3. Spatial data structures, topology building, file structures, graphs and trees
- 2.4. Basic statistical techniques for processing and organisation of data Conversion into mappable form.

3. Data conversion and preprocessing Contact Hours 15

- 3.1. Conversion of spatial data into digital for
- 3.2. Characteristics of digital data, line and area encoding
- 3.3. Vector and raster formats: their implications for input, processing and storage
- 3.4. Manual, semi-automated and automated procedures for input of spatial data.

4. Processing, classification and trends Contact Hours 20

- 4.1. Processing and output of spatial data, computer assisted procedures for representation of point, line and area data
- 4.2. Linking of attribute data with corresponding objects
- 4.3. Recent trends in computer cartography -Impact of Geographical Information System
- 4.4. Dynamic and animated maps, three –dimensional analytic geometry
Internet – Web-based cartography – Future potentials

Text Books:

1. Clarke, K. C. (1998) : Analytical and Computer Cartography, Pearson Educational Company, New Jersey.
2. Jones, C. B. (1997): Geographical Information Systems and Computer Cartography, Addison Wesley Longman Limited, England.
3. Monmonier, M. S. (1982) : Computer-Assisted Cartography: Principles and Prospects, Prentice-Hall, Inc., London.
4. Robinson, A. H. et al (1995) : Elements of Cartography, Vol.6, John Wiley and Sons, New York.

Books for further reading:

1. Harvey, F. (2009) Primer of GIS: Fundamental Geo. & Cartographic Concepts, Rawat Publications, Jaipur

**M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV**

403/ 404:C8- Spatial Perspectives in Environmental Planning and Management

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

- 1. Environmental planning and management: Contact Hours 15**
- 1.1 Principles of environmental management - Protective, Adaptive, Integrative
 - 1.2 Importance of environmental planning and management – eco-friendly, soft technology
 - 1.3 Environment Management System – EMS standards: ISO
- 2. Institutional arrangements for conservation of resources: Contact Hours 15**
- 2.1 Government policies and agencies
 - 2.2 International organizations and Legislation
 - 2.3 Protocols, treaties, conventions
- 3. Environmental Impact Assessment: Contact Hours 15**
- 3.1 Aims and objectives
 - 3.2 Basic concepts and framework of EIA
 - 3.3 Methods of EIA
 - 3.4 Merits and demerits
- 4. Environmental Planning and Environmental Protection in India: Contact Hours 15**
- 4.1 Constitutional and legislative measures and their implementation
 - 4.2 Environmental Policy – environmental dimension in 5 year plans
 - 4.3 Environmental education and awareness

References:

1. Adams, W.M.(2001): Green Development: Environment and Sustainability in the Third World, Routledge, London.
2. Agarwal, S.K. and Dubey, P.S. (2002): Environmental Controversies, A.P.H. Publishing Corporations, New Delhi.
3. Saxena, H. M. (2010): Environmental Management – 2nd Edition, Rawat Publ, Delhi.
4. Hay, P. (2009): Companion to Environmental Thought, Rawat Publ, Delhi.
5. Rashid, et al. (2008): Environment, Resources & Sustainable Development, Rawat Publications, Delhi.
6. Srivastava, D. C. (ed) (2005): Readings in Environmental Ethics: Multidisciplinary Perspectives, Rawat Publ, Delhi.
7. <http://envfor.nic.in/divisions/iass/eia/Cover.htm>
8. Wathern, Peter (2002): Environmental Impact Assessment: Theory and Practice – Routledge
9. Murthy D. B. N. (2005): Environmental Planning and Management, Deep & Deep Publications Pvt. Ltd. New Delhi.
10. Selman Paul (1999): Environmental planning: The Conservation and Development of Biophysical Resources, Sage Publications, London.
11. Leonard, Ortolano (1984): Environmental planning and decision making, John Wiley, New York.
12. Basu, D.(ed.)(1995): Environment and Ecology – The Global Challenge, Printwell, Jaipur.

13. Calvert P.S. (1999): The South, The North and the Environment, Bloomsbury Publishing PLC, London.
14. UNFPA (1992): 'Population, Resources and Environment – The Critical Challenges', United Population Fund, London.

Books for further Reading:

1. Centre for Science and Environment (1985),(1991): The State of India's Environment, Vol. 1, 2, 3, 4. CES, New Delhi.
2. The Hindu (1991-2003) Survey of the Environment, Madras.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C10- Geography of Health

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

1.Status of Geography of health

Contact Hours 15

- 1.1 Changing pattern of health
- 1.2 Spatial pattern of health indicators - Developed and less developed countries
- 1.3 Implications of epidemiological transition in health care perspective – Significance of geographical analysis.
- 1.4 Ecology of diseases - Environmental and other associated factors Spatial pattern of cholera and gastro-enteric diseases - Malaria, leprosy, tuberculosis- Heart diseases and cancer.

2.Rural environment and health

Contact Hours 15

- 2.1. Custom, social practice and disease
- 2.2. Food habit and health-
- 2.3. Environment and health –
- 2.4. Health problems of tribal communities with special reference to India.

3.Urban environment and health

Contact Hours 15

- 3.1. Occupational health hazards
- 3.2. Environmental Pollution and related impact on health in urban and peri-urban are
- 3.3. Relevant case studies.

4.Health care in India

Contact Hours 15

- 4.1 Relevant Contributions Rural-urban divide-Socio-spatial accessibility and hierarchy of the System
- 4.2. Welfare Approach and its relevance to health care Health care delivery: A systems approach - Cross country comparisons.
- 4.3. Health care system in India - Socio-political context – Sources of health care – Demand and supply
- 4.4. Significance of primary health care – Planning of health care delivery.

Text-Books:

1. Akhtar, R. and Learmonth, A.T.A. (eds) (1956): Geographical Aspects of Health and Disease in India, Concept Pub. Co.
2. McGlashan, N.D(ed)(1972): Medical Geography: Techniques and Field Studies,

Methuen.

3. Pacione, M. (1986):.Medical Geography: Problems and Prospect, Croom. Helm.
4. Smith, D.M.(1977): Human -Geography, A Welfare Approach, Arnold Heinemann.
5. McGlashan, N.D. and Blunde J.R.(eds)(1983):Geographical Aspects of Health, Academic Press.
6. Trevethick, R.A.(1973): Environmental and Industrial Health Hazards, William Heinemann Medical Books Ltd.
7. Bhat, V.N. (1980):Public Health in India, Amar Prakashan.
8. Banerji, D. (1985):Health and Family Planning Services in India, Lok Prakash, New Delhi.

Books for further reading:

1. Akhtar Rais, and Nilofar,I,(2019), Geography of health: an essay and bibliography,Marwah publications, New Delhi.
2. Agnihotri R,(2011), Geomedical Environment & Health Care, Rawat Publications, Jaipur
3. Anthamatten P, (2011),Introduction to the Geography of Health, Rawat Publications, Jaipur
4. Pyle, G. F.(1979): Applied Geography, Wiley & Sons.
5. Howe, G.M.(1977): A World Geography of Human Diseases, Academic Press.
6. Denton, J.A. (1978) : Medical Geography, Houghton Mifflin, U.S.A.
7. Eyles, J. and Wood, K.(1983):The Social Geography of Medicine and Health, Croom Helm.
8. Learmonth, A.T.A.(1988): Ecology of Diseases, Blackwell.
9. Bastide, R.(1972): The Sociology of Mental Disorder, Routledge and Kegan Paul.
10. Banerji, D. (1986) :Social Sciences and Health Services in India, Lok Prakashan, New Delhi.
11. Mishra, R.P.(1970): Medical Geography of India, National Book Trust of India.
12. Mishra, R.P.(2002)), Geography of health : a treatise on geography of life and death in India, Concept Publishing Co., New Delhi

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C11- Dissertation

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C12- Geographical Information System in Urban Planning and Management

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Introduction: GIS for urban planning and management: Contact Hours 15

- 1.1 GIS in Urban Planning – Urban planning stages and system, basic concepts and principles, GIS for decision support system in urban planning and management
- 1.2 GIS analysis of cities in a global world. Administering urban spatial data,

urban resource inventory

- 1.3. Urban Spatial Data Types and Sources: Data Structures, Urban Spatial Information updating, Change detection based on remote sensing data, GPS data source - Census Data
- 1.4. Urban GIS data: Acquisition, analysis - Web GIS -- spatial digital information validation and generation.

2. GIS data and analysis for planning: Contact Hours 15

- 2.1 Spatial data base organisation for Urban Planning: Data sources, types of spatial data - Land Record Information – Base map accuracy –cadastral and other maps, Land Survey system
- 2.2 Vector and Raster database design for urban resource information
- 2.3 Basic GIS methods for planning: classifying, symbolising overlaying, buffering, addresses matching
- 2.4 Integration of Different data sources , data warehousing, cloud computing concept

3. GIS analysis for urban spatial data Contact Hours 15

- 3.1 Urban Analysis Techniques GIS environment: Types and inventory
- 3.2 Proximity polygons and Nearest Neighbour Analysis, Network Analysis and its Urban Applications, Spatial autocorrelation ,spatial interpolation and simulation
- 3.3 Urban GIS modelling
- 3.4 Spatial questions and query building- single and multilayer

4. Purview of GIS in urban planning and management and for public policy: Contact Hours 15

- 4.1 Socio-economic Baseline Survey Land Information System (LIS) and Land Records Management, Geographic Integrated Services, Real Estate Geographic Information System (REGIS), Property Information Management System, Disaster Information system (DIS), Retail site location, GIS for Transport planning, Crime GIS analysis, Public health applications and GIS
- 4.2 Urban planning and policy applications with GIS, Mapping Urban Inequalities with GIS
- 4.3 Modeling monitoring and managing urban metropolitan sprawl and future population prediction
- 4.4 Virtual urban information management system, E- planning and 3D city models.

Reference Books:

1. Bernhardsen, Tor (2002) : Geographical Information Systems: An Introduction, 3rd Edition, John Wiley & Sons, Inc., New York.
2. Burrough, Peter A. and McDonnell, R.A. (1998) : Principles of Geographical Information Systems, Oxford University Press, Mumbai.
3. Clarke, Keith C. (1998) : Getting Started with Geographic Information Systems, Prentice-Hall Series in Geogl. Info. Science, Prentice-Hall, Inc. N.J.

Books for further reading:

1. Fleming, Cory, (2005), The GIS Guide for Local Government Officials, International City/County Management association(ICMA),ESRI Press, Redlands, California

2. Huxhold, William E. (1991): An Introduction to Urban Geographical Information Systems, Oxford University Press, New York.
3. Martin, David (1996): Geographical Information Systems: Socio-economic Applications, 2nd Edition, Routledge, London & New York.
4. Markandey K (eds) (2009), Urban Environment and Geoinformatics, Rawat Publication, Jaipur
5. Masser, Ian (1998): Government and Geographical Information Systems, Taylor & Francis Group, London.
6. Morain, Star (1998): GIS Solutions in Natural Resource management: balancing the Technical-Political Equations, Onward Press, London.
7. Nathawat MS (ed), (2008), Geoinformatics for Decentralized Planning and Governance, Rawat Publications, Jaipur
8. Nyerges and Jankowski, (2010) Regional and Urban GIS: A Decision Support Approach, Rawat Publication, Jaipur
9. Obermeyer, Nancy J. and Jeffrey K. Pinto (1995): Managing Geographical Information Systems, The Guilford Press, New York.
10. Pamuk, Ayse, (2006), Mapping Global Cities: GIS Methods in Urban Analysis, ESRI Press, Redlands, California.
11. Pickles, John (Ed.) (1995): Ground Truth : The Social Implications of Geographical Information Systems, The Guilford Press, New York.
12. Subudhi, A.P., Sokhi, B.S., Roy, P.S. (2001), Remote Sensing and GIS: Applications in Urban and Regional Planning, IIRS, Dehradun.

M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV
403/ 404:C13- Geographical Information System and
Geographic Knowledge System

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Geographical Information System and Geographical Knowledge Contact Hours 15

- 1.1 Introduction to Geographic Knowledge
- 1.2 GIS and information strategies
- 1.3 Nature of geographical data
- 1.4 GIS and limits of geographic knowledge

2. GIS and production of geospatial knowledge

Contact Hours 15

- 2.1. Information and knowledge discovery from databases
- 2.2. Modes of geospatial knowledge production
- 2.3. Geographic data and data mining
- 2.4. Fundamentals of spatial data ware housing

3. Data Quality issues and geographic knowledge

Contact Hours 15

- 3.1. Analysis of spatial data
- 3.2. Spatial classification and spatial association, spatial clustering methods
- 3.3. Spatial models
- 3.4. Spatial sampling

4. Visual Exploration and explanation

Contact Hours 15

- 4.1. Geographic information System in spatial knowledge exploration and

development

- 4.2. Building geographic knowledge system
- 4.3. Spatial trend in explanation of data – cloud computing
- 4.4. Geo-Visualisation of geographic knowledge through GIS

Books

1. Burrough, Peter A. and McDonnell, R.A. (1998) : Principles of Geographical Information Systems, Oxford University Press, Mumbai.
2. Clarke, Keith C. (1998) : Getting Started with Geographic Information Systems, Prentice-Hall Series in Geogl. Info. Science, Prentice-Hall, Inc. N.J.
3. Heywood, I. et al (2002) : An Introduction to Geographical Systems, Pearson Education Limited, New Delhi.
4. Obermeyer, Nancy J. and Jeffrey K. Pinto (1995): Managing Geographical Information Systems, The Guilford Press, New York.
5. Pickles, John (Ed.) (1995): Ground Truth : The Social Implications of Geographical Information Systems, The Guilford Press, New York.
6. Star, Jeffrey and John Estes (1996) : Geographical Information Systems: An Introduction, Prentice-Hall, Inc., N.J.

Books for further reading:

1. Agarwal, N.K. (2010), Essential of GPS , Geodesy and GPS , Hyderabad.
2. Fischer, M , Scholten, H.J., Unwin, D. (1996), Spatial Analytical Perspectives on GIS, Taylor and Francis, London, UK.
3. Fotheringham, D, and Rogerson, P. (1994), Spatial Analysis and GIS, Taylor and Francis, London, UK.
4. Laurini, R, and Thompson ,D. (1999), Fundamentals of Spatial Information Systems, Academic Press, London, UK.
5. Muller, J.C., Lagrange, J.P., Weibel, R., (1998), GIS and Generalisation: Methodology and Practice, Taylor and Francis, London, UK
6. Peterson, G.N., (2009), GIS Cartography, : A Guide to Effective Map Design, CRC Press, New York
7. Terry., K.S., (2000), Integrating GIS and Global Positioning System, ESRI Press , Redlands, California.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C14- Maritime Studies with special reference to India

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Marine environment and resources:

Contact Hours 15

- 1.1 Factors influencing the marine environment
- 1.2 Habitats within oceans – horizontal and vertical ecosystems
- 1.3 Living and non-living marine resources – exploitation and conservation
- 1.4 Pollution – causes, sources and impact

2. Legislative framework:

Contact Hours 15

- 2.1 Maritime laws, conventions and treaties – with special reference to India
- 2.2 Problems and issues in implementation

3. Maritime security:

Contact Hours 15

- 3.1 Threats and concerns
- 3.2 Disasters and their management

4. Maritime trade of India:

Contact Hours 15

- 4.1 Ancient and historical linkages
- 4.2 Impacts, influences and interchanges
- 4.3 Present linkages
- 4.4 Ports of India – past, present and future prospects

References:

1. Chandra, Moti. (1977): Trade and Trade Routes in Ancient India, Abhinav Publications New Delhi.
2. Maritime Heritage Series – Maritime History Society, Mumbai.
3. Admiral Arun Prakash (Retd) (2009): The Indian Ocean- A Zone of Conflict, in Lt.
4. Col. Harjeet Singh (Retd.) Ed. South Asia Defence and Strategic Year Book, Pentagon Press, New Delhi.
5. Chaudhary, Rahul Roy (2000): India's maritime Security, IDSA and Knowledge World, Delhi.
6. Sugandha (2008): Evolution of Maritime Strategy and National Security of India, Decent Books.
7. Institute of Defence Studies and Analysis- WWW.idsa.in
8. Preliminary Report, Diversity of Coastal Marine Ecosystem of Maharashtra, BNHS –Mumbai
9. Reports of Kharland Development Board - <http://www.mahakharlanddevelopment.org>
10. Hattendorf, John B. (2007): Oxford Encyclopedia of Maritime History

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C15- Ge-informatics and Health Care

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Health care and Geoinformatics

Contact Hours 15

- 1.1 Insight and scope of healthcare in Geoinformatics environment
- 1.2 Health care planning and GeoInformation, Global health policy
- 1.3 Spatial and non-spatial factors
- 1.4 Role of GIS and Remote Sensing for health care planners

2. Geoinformatics and database for health care

Contact Hours 15

- 2.1 GIS data base for diseases- : spatial and non-spatial
- 2.2 Remote Sensing as a source for health related information
- 2.3 Vector and raster data for health care , techniques for analysis
- 2.4 GIS model for healthcare accessibility – plume model , star model

3. GIS, healthcare, , technologies and surveillance

Contact Hours 15

- 3.1 Public health and geo-information system
- 3.2. Health care and GIS and GPS
- 3.3 Socio-demographic determinants and GIS initiatives
- 3.4. GIS and spatial Epidemiology

4. GIS applications for health care

Contact Hours 15

- 4.1. GIS and environmental risk factor analysis
- 4.2. Spatio-temporal approach and spatial statistics for creation of habitat suitability
- 4.3 Geoinformatics as a decision support system for prevention of epidemic disease
- 4.4. Web-based GIS for control of communicable diseases

Books:

- 1.Bracken, I, and Webstar, C,(1990), Information Technology, Geography and Planning, Routledge, London and New York
- 2.Pickles, John (Ed.) (1995): Ground Truth : The Social Implications of Geographical

Information Systems, The Guilford Press, New York.

Books for further reading:

1. Ahmad, S, Sais, S, and Muddassir, S.M. (2011), Remote sensing and GIS for Environmental Management, World Education, Delhi
2. Birkin, M et al, (1996), Intelligent GIS: Location Decisions and Strategic Planning, Geoinformation International, Cambridge, UK.
3. Dantas, Anandi, (2011), Mapping of urban Health Facilities in Maharashtra, Centre for Enquiry into Health and Allied Themes (CEHAT), Mumbai
4. Masser, Ian (1998): Government and Geographical Information Systems, Taylor & Francis Group, London.
5. Steinberg, S.J., and Steinberg, S.L., (2006), Geographic Information Systems for Social Sciences: Investigating Space and Place, Sage Publications, California.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C17- Geographies of Exclusion

No. of Credits: 4 Teaching Hours 60 + Notional Hours 60 = Total hours 120

1. Genesis of Process and act of exclusion

1.1 Envisioning differences between Self and Others – feelings and their parameters- their grounding into place and space.

1.2 Alternative perspectives on the self- Theoretical approaches- Freudian psycho-analysis;

Object relations theory; abjection- Relevance of ‘the generalized Other’; Cultural representations of people and things- as constituted by places and space.

1.3 Images of differences- Stereotypes and their construction signifying ‘Defiled Other’ – interpreting Colour, disease, nature – Verbal and visual images rooted in culture.

1.4 Border crossings – contestation of boundaries- Boundary maintenance and social organization; Pollution, discrepancy and small group boundaries – Boundary enforcement- inversions and reversals.

2. Mapping the Pure and the Defiled

2.1 Colonisation- Expansion of the European empires and mapping of the colonized as the Defiled Others– Imaginative geographies of landscapes, architectural forms, paintings, advertisements and exhibitions – depiction of residual population and places

2.2 Bounding Space – Purification and Control – Structuration theory and Spatial theory- Spatial purification as a key feature in organizing Social Space- The form of purified space and Exclusionary Space- Space and Social control.

2.3 Spaces of Exclusion and emplacement of power relations- Home as heaven as against a socially stratified space.

2.4 Locality and Otherness; National identities and alien others. Geopolitics and purified identities.

3. Knowledge, Power and Exclusion

3.1 The exclusion of Geographies- people, spaces and exclusion of knowledge – Knowledge and Power Interrelations – Production of Knowledge as a form of social practice- Differential power among practitioners.

3.2 Compartmentalisation - Specialisations of knowledge Monopolies and Control; Hierarchical structuring of knowledge and power in academia- Exclusion of folk knowledge.

3.3 Lost knowledge- Rejected knowledge and Forms of exclusion- deindustrialization and exclusion of the knowledge base and employment of workers – Illustrative cases

3.4 Gender- politics and Power – Production gendered spaces- Patriarchy and power relations- Social control – Forms, patterns and terrains of Exclusion; Sexual violence, Control of resources, Property ownership, Control of body and reproduction, Political representations and participatory decision making.

IV Exclusion in India: Interpretations of Identities, Knowledge and Power Interrelations

1.1 Religion;

1.2 Caste;

1.3 Class

1.4 Gender

References:

1. Sibley David, 1995, 'Geographies of Exclusion- Society and Differences in the West', Routledge.
2. Murdoch Jonathan, 2006, Post-structuralist Geography, Sage
3. Sharp Joanne, 2009, 'Geographies of Postcolonialism – Spaces of Power and representation', Sage.
4. Herod Andrew and Wright Melisa W. 2002, 'Geographies of Power – Placing Scale', Blackwell Publishing.
5. Aitken Stuart and Valentine Gill, 2006, 'Approaches to Human Geography', Sage.
6. Doreen Massey, John Allen and Sarre Philip, (eds.), 1999, 'Human geography Today', Polity Press.
7. Cloke Paul, Philip Crang and Mark Goodwin (eds.), 2004, 'Envisioning Human Geographies', London, Arnold.
8. Dear Michael and Flusty Steven, (eds.), 2002, 'The Spaces of PostModernity', Blackwell Publishing.
9. Clifford Nicholas J., Holloway Sarah, Rice Stephen P.(eds.), 2009, 'Key Concepts in Geography', Sage.
10. Harvey, D. (1989), 'The Condition of Postmodernity, An Enquiry into the conditions of Cultural Change, Blackwell
11. Harvey, D. (1982), Revised (2007), 'The Limits to Capital',
12. Harvey, D. (2001): 'Spaces of Capital: Towards a Critical Geography', Edinburgh University Press.
13. Harvey David, 2002, 'Spaces of Hope', Edinburgh University Press.
14. Hubbard Phill, Kitchin Rob, Bartley Brendan and Duncan Fuller, 2002, 'Thinking Geographically –Space, Theory and Contemporary Human geography', London, Continuum.
15. Cloke Paul and Johnston Ron, 2005, 'Spaces of Geographical Thought', Sage.
16. Barnes trevor and Gregory Derek (eds.), 1997, 'Reading Human Geography – The Poetics and Politics of inquiry', London, Arnold.
17. Eyles, J. (1974): Social Theory and Social Geography, in Progress in Geography, Vol.6, pp 2788.
18. Gregory, D. and Urry, J. (1985): Social Relations and Spatial Structure, Macmillan.
19. Pacione, M. (ed) (1987): Social Geography: Progress and Prospect, Croom Helm.

20. Jones, E. and Eyles, J.(1977); Introduction to Social Geography, Oxford University Press.
21. Sassen, S. (1994): Cities in a World Economy Pine Forge Press.
22. Smith, D. M. (1979): Where the grass is Greener, Croon Helm.
23. Ahmad, A. (1999): Social Geography, Rawat Publishers.
24. Daniels, S. and Lee, R. (eds.)(1996): Exploring Human Geography, Arnold.
25. Castells, M., (1996): The Rise of the Network Society, Basil Blackwell, 1996.
26. Dear, M.J. and Flusty, S. (2000): The Spaces of Postmodernity, Blackwell.
27. Vincent J. Del Casino, (2009): Social Geography- Critical Introduction to Geography, Wiley-Blackwell.
28. Chris Hamnett (ed.), (1996): Social Geography A Reader, Arnold.
29. R. J. Johnston, Derek Gregory, Geraldine Pratt, and Michael Watts, (eds.), 5th edition, (2005): The Dictionary of Human Geography, Blackwell Publishing.

Additional Reading:

1. Leyshon Andrew, Roger Lee and Collin Williams, 2003, 'Alternative Economic Spaces', Sage.
2. Kohli Atul, 2004, 'State Directed Development - Political Power and Industrialisation in the Global Periphery', Cambridge University Press
3. McChesney Robert, W., Wood Ellen Meiksins and John Bellamy Foster, 2001, 'Capitalism and the Information Age, The political economy of the global Communication Revolution', Cornerstone Publications, India and Monthly Review Press, New York.
4. Agyeman Julian, Robert D. Bullard and Evans Bob, 'Just Sustainabilities – Development in an Unequal World', (eds.), 2003, Earthscan.
5. Smith Neil, 1996, 'The New urban Frontier – Gentrification and the Revanchist City', London, Routledge.
6. Noel Castree Neil M. Coe, Ward Kevin and Samers Michael, 'Spaces of Work: Global Capitalism and the Geographies of Work', Sage.
7. Bryson John, Henry Nick, Keeble David and Martin Ron, (eds.) (1999): The Economic Geography Reader- Producing and Consuming Global Capitalism, John Wiley and Sons Ltd., New York.
8. Leyshon Andrew, Lee Roger, McDowell Linda and Sunley Peter, 2011, 'The sage Handbook of Economic Geography', Sage.
9. Banerjee- Guha Swapna, (ed.), 2010, 'Accumulation by Dispossession, Transformative cities in the New global Order', Sage.
10. Dodge Martin, Kitchin Rob and Perkins Chris (eds.), 'Rethinking Maps', Routledge Studies in Human Geography, Routledge.
11. Manuel Castells (1989): The Informational City, The information technology, Economic restructuring & the Urban regional Process, Blackwell Publication Ltd.
12. Manuel Castells (1983) : The City & the grassroots, A Cross-Cultural Theory of Urban Social Movements, Edward Arnold Publisher Ltd.
13. Edward Soja (2000): Postmetropolis, Critical Studies of Cities & Regions, Blackwell Publisher Ltd.
14. Cloke Paul, Cook Ian, Crang Philip, Goodwin Mark, Painter Joe and Pilo Chris, 2004, 'Practising Human Geography', Sage.

- Cartography, Addison Wesley Longman Limited, England.
5. Molenaar, M. (1998), An Introduction to the Theory of Spatial Object Modelling for GIS, Taylor and Francis, Ltd, London, United Kingdom
 6. Panigrahi, N. (2008), Geographical Information Science, University Press, Hyderabad.
 7. Petersen, M.P. (1995), Interactive and Animated Cartography, Prentice Hall, Englewood Cliffs, New Jersey.
 8. Shekhar, S, and Chawla, S. (2009), Spatial Databases: A Tour, Pearson Education, New Delhi.
 9. Wang, F. (2006), Quantitative Methods and Applications in GIS, Taylor and Francis, New York.

M.A./ M.Sc. Credit Based Grading System

Geography - Semester IV

403/ 404:C19- Globalising Mega Cities: Geographical Study of Mumbai and MMR

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60 = Total hours 120

1. Megacity and urban network

(15hrs)

- 1.1. Globalisation emergence of megacities – megacities as inclusive cities global change and megacities, effects of globalisation, megacities as international power, control and command centre
- 1.2. Megacity in urban system – world city network, megacity and urbanisation processes and growing phenomena of world urbanisation, mega city and global city
- 1.3. Megacities – process of economic and cultural integration, cultural globalisation – a new metageography
- 1.4. Megacity and market oriented control of urban development – examples from south and south east Asia

2. Megacity as World city

(15hrs)

- 2.1. Characteristics, megacities as global nodes and action spaces
- 2.2. Spatial pattern, structure, process of gentrification, social and spatial segmentation
- 2.3. Technological development and megacity and quality of life, global risk area, megacity as phobopolis – processes of exclusion and inclusion and availability of spatial resources
- 2.4. Megacities - dominance and dependence, social polarisation, cultural globalisation, megaurban economies, multilayered interconnection, expansion of informal sectors

3. Mumbai as megacity

(15hrs)

- 3.1. Colonial city to global city, transitional characteristics and forces,
- 3.2. Demography, strategies of sustainable development
- 3.3. Urban structure, infrastructure, dynamicity, forces, formal and informal Institution
- 3.4. Trends and future urban vision, risk accumulation, Mumbai as resilient megacity

4. MMR as mega-urban region

(15hrs)

- 4.1 MMR and global economy, mega-urban region, polycentric growth
- 4.2 Impact and access to land, housing, health and other amenities, institutional structures
- 4.3 Role of MMR and urban policy formulation and issues, multilateral international development agencies, public –private partnership

4.4 MMR and global integration and sustainability, cross sector policy approach

Books:

1. Castells, M (1989) *The Informational City*. Blackwell, Oxford.
2. Dogan, M and Kasarda, J D (eds.) (1988) *The Metropolis Era, Mega-Cities 2*. Sage, New York.
3. Friedman J. (1986), *The World City Hypothesis*, *Development and Change*, 17, 1, 69-83. Reprinted in Knox P.L. and Taylor P.J., 1995, *World Cities in a World-System*, Cambridge: Cambridge University Press, 317-331.
4. Gugler J. (2004), Introduction, in Gugler J. (ed), *World Cities beyond the West: Globalization, Development, and Inequality*, Cambridge: Cambridge University Press, 1- 26.
5. Hall, P.G. (1966): *The World Cities*, London, Weidenfeld and Nicolson
6. Mcgee,T.G.(1975): *The Urbanisation Process in Third World*, G. Bell and Sons, London
7. Patel,S. And Thorner,A.(eds): (1995), *Bombay: Metaphor of Modern India*, Oxford University Press.
8. Sassen S. (2000), *Cities in a World Economy*, Thousand Oaks: Pine Forge Press.
9. Szelenyi, J.(ed), (1984): *Cities in Recession*, Sage Publication.
10. Taylor, P.J. (2004), *World city network: a global urban analysis*. London and New York, Routledge.

Books for further reading:

1. Daniel, P.W. s, (2004), *Urban challenges: the formal and informal economies in mega- cities*, *Cities*, Vol. 21, No. 6, p. 501–511, www.elsevier.com/locate/cities
2. Jacobs, J (1969) *The Economy of Cities* New York: Random House
3. Hall, P and Pain, K (2006) *The Polycentric Metropolis* London: Earthscan
4. Hall P. Sarazzin,T, Sassen,S. *Cities in Schlossplatz* : www.hertie-school.org/fileadmin/images/Downloads/sp3/sp3_4.pdf
5. Hall, P (1996) *Cities of Tomorrow* Oxford: Blackwell
6. Kraas, F. (2003): "Megacities as Global Risk Areas", in: *Petermanns Geographische Mitteilungen* 147, (4): 6-15
7. Sivaramakrishnan, K.C.,(2012): *Re-visioning Indian Cities*, Sage, New Delhi
8. World Bank (2000) *Dynamics of cities as engines of growth*. World Development Report 1999 /2000. World Bank, Washington, DC.
9. United Nations (2001), *World Urbanization Prospects. The 1999 Revision*, Department of Economic and Social Affairs, Population Division, New York: United Nations.
10. United Nations (2004), *World Urbanization Prospects. The 2003 Revision*, Department of Economic and Social Affairs, Population Division, New York: United Nations. Online <http://www.un.org/esa/population/publications/wup2003/2003WUP.htm>
11. United Nations Centre for Human Settlement (2001), *The State of the World's Cities*, Nairobi: UNCHS.
12. United Nations Development Programme (2005), *Human Development Report 2005*, New York: UNDP.

M.A./ M.Sc. Credit Based Grading System
Geography - Semester IV
403/ 404:C21- Regional Development in Maharashtra
With Special Reference to Konkan

No. of Credits: 4

Teaching Hours 60 + Notional Hours 60= Total hours 120

1. Regional planning in India

Contact Hours 15

- 1.1 Historical background
- 1.2 Regional development strategies during the planning era
- 1.3 Role of Finance and Planning Commissions in solving regional problem
- 1.4 Temporal change in perspective
- 1.5 Planning and development machinery at various levels.

2. Regional development in Maharashtra

Contact Hours 15

- 2.1 Historical factors influencing regional development
- 2.2 Regional diversity as a factor in regional development
- 2.3 Government policy and regional disparities in development
- 2.4 Current status in regional development
- 2.5 Remedial measures and their impact

3. Urbanisation and regional development

Contact Hours 15

- 3.1 Role of urban centres in regional development
- 3.2 Urban scenario in Maharashtra in the context of regional development
- 3.3 City regions and their problems: case study of MMR
- 3.4 Problems of poorly urbanized areas.
- 3.5 Remedial measures and their impact

4. Regional development in Konkan

Contact Hours 15

- 4.1 Historical aspects of regional development
- 4.2 Regional diversity as a factor in regional development
- 4.3 Regional disparity within Konkan
- 4.4 Role of Mumbai in regional development
- 4.5 Current status in regional development

Text Books

1. C.S.D.I. (1979), 'Impact of Concessional Finance on Industrial Development: Nashik (Maharashtra)', Vaikunthalal Mehta Smarak Trust, Bombay.
2. Deshpande, C.D. (1971), 'Geography of Maharashtra', National Book Trust of India, New Delhi.
3. Deshpande, C.D., Arunachalam, B. and Bhat, L.S. (1980), 'Impact of a Metropolitan City on the Surrounding Region', Concept Publishing Company, New Delhi.
4. Dikshit, K.R.(1986), "Maharashtra in Maps", Maharashtra State Board of Literature and Culture, Bombay.
5. Gadgil, G. and Deshpande, A. A. (eds) (1988), 'Maharashtra: Problems, Potential and Prospects', Somaiya Publications Pvt. Ltd., Bombay.