

**MINUTES OF BOS IN P.G. GEOGRAPHY MEETING HELD ON 24-07-2009 AT
10.30 A.M., IN THE DEPARTMENT OF GEOGRAPHY, ANDHRA UNIVERSITY**

1. It is resolved to offer one non-core paper in each semester apart from 4 core papers in M.Sc., Geography.
2. It is resolved to approve the syllabus prepared for four non-core papers entitled , Fundamentals of Geography (I Semester), Applied Geography (II Semester), Tools and techniques in Geography (III Semester) and Human Geography (Iv Semester) taught by Geography Department to other Departments. And intake of students is 32 for each paper.
3. It is resolved to follow the credit system for core and non-core subjects by assigning 4 Credits to theory, 2 credits to Practical and 2 credits to Viva-voce.
4. Resolved to approve the revised panel of experts for constitution of selection Committee given by the board members. The Chairperson authorized to submit the list to the Vice-Chancellor.
5. It is resolved to approve the list of text books recommended for the reference with each paper of each semester.
6. Resolved to approve the list of paper setters/ examiners as there are some omissions and additions.

MINUTES OF BOS IN P.G. GEOGRAPHY MEETING HELD ON 23-07-2010 AT 11.00 A.M., IN THE DEPARTMENT OF GEOGRAPHY, ANDHRA UNIVERSITY

1. It is resolved to approve the revision of the syllabus of Paper GR.102 entitled 'Economic Geography'. It may be implemented to the 2010-2011 admitted batches.
2. It is resolved to approve the revision of the syllabus of the Paper GR-202 entitled 'Geographical Thought', in II Semester. It may be implemented to the 2010-2011 admitted batches.
3. It is resolved to approve the replacement of Paper GR-203 entitled 'Basic computers and fundamentals of GIS' with 'Urban Geography', in II Semester. It may be implemented to the 2010-2011 admitted batches.
4. It is resolved to approve the revision of the syllabus of the Paper GR-302 entitled 'Environmental Geography', in III Semester. It may be implemented to the 2010-2011 admitted batches.
5. It is resolved to approve the replacement of Paper Gr.303 entitled 'Pedology and Hydrology', in III Semester. It may be implemented to the 2010-2011 admitted batches.
6. It is resolved to approve the replacement of Paper Gr.304 entitled 'Applied Climatology' with 'Disaster Management Studies', in the III Semester. It may be implemented to the 2010-2011 admitted batches.
7. It is resolved to approve the replacement of Paper Gr. 401: 'Hydrology' with Gr.401: 'Agricultural Geography', in the IV Semester. It may be implemented to the 2010-2011 admitted batches.
8. It is resolved to approve the replacement of Paper Gr. 402: 'Urban & Regional Planning' with Gr.402: 'Regional Planning and Development in India ', in the IV Semester. It may be implemented to the 2010-2011 admitted batches.
9. It is resolved to approve the syllabi prepared for eight papers entitled, Economic Geography (I semester), Geographical Thought (II Semester), Urban Geography (II Semester), 'Pedology and Hydrology', (III Semester), 'Environmental Geography' (III Semester) Disaster Management studies' (III Semester), 'Agricultural Geography' (IV Semester) and 'Regional planning and development in India' (IV Semester).
10. Resolved to approve the revised panel of experts for constitution of selection Committee given by the board members. The Chairperson authorized to submit the list to the Vice-Chancellor.
11. It is resolved to approve the list of text books recommended for the reference with each paper of each semester.
12. Resolved to approve the list of paper setters/ examiners as there are omissions and additions.

**MINUTES OF BOS IN P.G. GEOGRAPHY MEETING HELD ON 23-07-2010 AT 11.00
A.M., IN THE DEPARTMENT OF GEOGRAPHY, ANDHRA UNIVERSITY**

Members Present

Signature

1. Prof.P.Vijaya Prakash,
Dept. of Anthropology
2. Prof.K.Nageswara Rao,
Dept. of Geo-engineering
3. Prof. C. Kasipathi,
Dept. of Geology
4. Prof.S.S.V.S. Rama Krishna,
Dept. of Meteorology & Oceanography
5. Dr.P.Prasad Babu,
Dept. of Computer Sciences
6. Prof.T.V.Krishna,
Dept. of Geography
7. Dr.P.Suneetha,
Dept. of Geography
8. Dr.G.V.Narasimha Rao,
Dept. of Geography
9. Dr. D.Venkata Rao,
Chairman, BOS (Pass Board)
10. Student representative,
Dept. of Geography
11. Prof.B.Hema Malini,
Board of Studies Chairman, Dept. of Geography

(B.HEMA MALINI)

ANDHRA UNIVERSITY
DEPT. OF GEOGRAPHY
VISAKHAPATNAM 530 003 INDIA



Phone : +91-891-2844581
Mobile: 9440316459; 9346306032
e-mail : bhmalini@yahoo.com

10-08-2010

Prof. B. Hema Malini
Board Of Studies Chairman

To
The Registrar,
Andhra University,
Visakhapatnam- 530 003

Sir,

Sub: Submission of revised Syllabi in Geography
Ref: Minutes of BOS meeting in Geography on 23-07-2010

I am here by submitting two hard copies and one soft copy of the revised syllabi of the subjects of Geography namely, Economic Geography (GR. 102), Geographical Thought (GR-202), Urban Geography (GR.203), Environmental Geography (GR.302) and Pedology and Hydrology (GR.303), for your Approval. And also kindly approve the syllabai of new subjects namely Disaster management (Gr. 304), Agricultural geography (GR. 401) and Regional Planning and Development in India (GR. 402) which are introduced.

Thanking you,

Yours faithfully,

(B.HEMA MALINI)

**Gr - 102. ECONOMIC GEOGRAPHY
(I Semester)**

- Unit-I: Scope, and content in economic Geography; relation of economic Geography with other branches of social sciences; Location of economic activities and spatial organization of economics (Primary, secondary and Tertiary)
- Unit-II: Factor of location of economic activities: Physical, social, economic and cultural; Concept and techniques of delimitation of agricultural regions; Von Thunen's model and its validity in the modern World.
- Unit-III: Classification of industries; Theories of industrial location-Weber and Losch; Case studies of selected industries: Iron and Steel, Textile etc.
- Unit-IV : Transportation and transport cost, accessibility and connectivity; Typology of markets, market networks/ systems in rural and urban areas
- Unit-V : Economic development of India, Regional disparities, Impact of green Revolution on Indian Economy, Globalization and Indian economy and its Impact on environment.

References

1. Berry. J.L. Geography of Market Centres and Retail Distribution. Prentice Hall, New York, 1967
2. Chatterjee, S.P. Economic Geography of Asia. Allied Book Agency, Calcutta, 1984
3. Dreze, J. and Sen, A. India-Economic Development and social opportunity. Oxford University Press, New Delhi, 1996.
4. Hamilton, L.(ed). Resources and industry. Oxford University Press, New York, 1994
5. Pachuri, R.K. Energy and Economic Development in India, Praeger, New York, 1977
6. Singh, J. and Dhillon, S.S. Agricultural Geography, Mcgraw Hill India, New Delhi, 1984
7. Symons, L., Agricultural Geography, Bell and Sons, London, 1972
8. Wheeler, J.O. et al. Economic Geography. John Wiley. New York, 1995.

**Gr. 202. GEOGRAPHICAL THOUGHT
(II Semester)**

- Unit –I The field of geography; Its place in the classification of sciences; geography as a social science, selected concepts in the philosophy of geography, distributions interactions; aerial differentiation and spatial organization.

- Unit- II Dualisms in geography; systematic and regional geography; physical & human geography. Systematic geography & its relation with systematic sciences and with regional geography. The myth and reality about dualisms. Regional geography: Concept of region. Regionalization and the regional method.
- Unit-III Scientific explanations: routes to scientific explanations (Inductive /Deductive) types explanations; cognitive description; cause & effect; temporal; functional/ecological systems.
- Unit-IV Laws, theories& models, the quantitative revolution, response to positivism, Behaviourism , postmodernism.
- Unit-V Historical development. Contributions of different scholars during ancient medieval and Modern period. Geography in the 20th Century; conceptual and methodological Developments and changing paradigms, status of Indian Geography, Future of geography, task ahead relating to development of Geographic Thought with special reference to changing views on man environment relationship.

References

1. Abler, Ronald, Adams, John S. Gould, peter. Spatial organization :The Geographer's View of the world. Prentice Hall, N.J., 1971.
2. SAli,S.M. The Geography of Purans . Peoples publishing House, Delhi, 1996.
3. Amedo, Douglas. An introduction to scientific reasoning in Geography. John Wiley, U.S.A., 1971.
4. Dikshit,R.D.(ed.)The Art&science of geography-Integrated Reaings,PrenticeHall ofIndia,New Delhi,1994.
5. Hartsshorne, R. Perspectives on Nature of Geography. Rand McNally &Co.,1959.
6. Husain, M. Evolution of Geographic thought .Rawat Pub, Jaipur,1984.
7. Johnson, R.J. Philosophy And Human Geography. Edward Arnold, London,1983.
8. Johnston,R.J. The Future of Geography. Methuen, London,1988
9. Minshull, R. The Changing Nature of Geography. Hutchinson Universituy Library, London, 1970.
10. Tayler (ed.) Geography of the 20th century. Mathew,London.

GR.203: URBAN GEOGRAPHY (II Semester)

- Unit I: Internal structure of Cities ; Concentric Zone theory , Sector theory. Multinuclei theory, City classification - functional classification of Towns.
- Unit II: Rural Urban fringe . City Region and Umland Central Business District
- Unit III: Primate city distribution and Rank rule size. The Central Functions and Central Place theory
- Unit IV: Urban Populations: Slums & squatter settlements. Housing problems. Transport

Traffic congestion problem

Unit V: Environmental problems (Air , Water , Solid waste)

References:

1. Berry , B.J.L. and Horton F.F.: Geographic Perspectives on Urban Systems , Prince Hall , Eaglewood Cliffs, New Jersey ,1970.
2. Carter : The Study of Urban Geography . Edward Arnold Publishers , London , 1972
3. Chorley, R.J. O.. Hagget P (ed.): Models in Geography , Methuen , London ,1966.
4. Dickinson , R.E.: City and Region ,Rutledge ,London ,1964
5. Gibbs , J.P: Urban Research Methods . D.Van Nostrand Co..in. Princeton, New Jersey ,1961
6. Jones . P.L. and Jones C.F. (eds): American Geography , Inventory and Prospect ,Syracuse University Press , ,Syracuse ,1954.
7. Kanda , A.: Urban Development and Urban Research in India , Khama Publication,1992
8. Mayor,H.M. Kohn C.F.(eds) : Readings in Urban Geography. University of Chicago Press, Chicago,1955.
9. Rao V.L.S.P.: Urbanization in India : Spatial Dimensions . Concept Publishing Co. New Delhi.
10. Rao V.L.S.P.: The Structure of an Indian Metropolis : A Study of Bangalore . Allied Publishers , Bangalore
11. Singh K and Steinberg F (eds): Urban India in Crisis. New Age interns, New Delhi ,1998.
12. Tewari , Vinod K. Jay A. Weinstein, VLS Prakasa Rao (editors) . Indian cities. Ecological Perspectives Concept 1966.

Gr. 302 ENVIRONMENTAL GEOGRAPHY (III Semester)

- UNIT – I Nature and scope of environmental geography – Environmental geography and related sciences. Ecosystem – concepts and components, energy and nutrients in the ecosystem. Bio-geochemical cycles.
- UNIT – II Major biotic regions of the world. Man – environment relationship. Resource use and ecological imbalance with reference to soils, forests and energy resources. Biodiversity and its conservation.
- UNIT – II Population growth and environment, carrying capacity of the earth, Land resources and world food security. Human settlements and environment; industrial environment – urban environment. Man’s impact on physical & social environments.

- UNIT – IV Emerging environmental issues - Environmental degradation, environmental pollution,, ozone depletion, green house gases, global warming. . Environmental quality - environmental impact assessment.
- UNIT – V Environmental legislation - The Stockholm Conference, the Earth Summit. Environmental laws in India. Environmental planning and Management. Environmental programmes.

References:

- The State of India's environment 1982 & 1984 – A citizen's report. Centre for Science and environment, New Delhi.
- Savindra Singh. Environmental geography. Prayag Pustak Bhavan, Allahabad. Robinson, H. Biogeography, ELBS, KLondon, 1978.
- Swarup, R.V., Mishra, S.N., Janchari, V.P. Encyclopedia of ecology, environment and pollution control. K.M. Agrawal, P.K., Sikdar, S.C. Deb. A Text book of Environment. Macmillan India Limited.
- Nag, P., Kumar, V.K. and Singh, J. Geography of Environment.
- Strahler, A.N. and Strahler, A.H. Geography and Man's Environment. John Wiley and Sons, New Delhi.
- Daniel B. Botkin, Edward A. Keller. Environmental Science (Earth as a living planet). John Wiley Sons Inc., New York.
- Bernard J. Nebel. Environmental Science – The way the world works. Prentice Hall, Englewood Cliff, NJ
- Chandana, R.C. Environmental Awareness. Kalyani Publishers, Ansari Road, New Delhi.

**Gr.303 . Pedology & Hydrology
(III Semester)**

- Unit I :** Factors and processes of soil formation; Soil profiles; Physical and chemical properties of soil; Classification of soils – zonal, azonal and intrazonal, world patterns
- Unit II:** Soil erosion and conservation; Soils of India; Sustainable development of soil resources with reference to India
- Unit III:** Hydrological cycle: Elements of hydrological cycle; Precipitation intensity and duration; Evaporation; infiltration; water balance elements and analysis; flood and drought analyses
- Unit IV:** Ground water occurrences and types, Movement, Quality and quantity measure; Nature and distribution of ground and surface water distribution in India;
- Unit V:** Water conservation; Application of Remote sensing in hydrological studies

References

1. Backman H.O., and Brandy, N.C., : The nature and properties of soils, Mc Millan, New York, 1960
2. Bennet, Hugh H, Soil conservation, Mc Graw Hill, New York
3. Bunting, B.T., The Geography of Soil, Hutchinson, London, 1973
4. Clarke, G.R. Study of the soil in the field, Oxford University Press, Oxford, 1957
5. Fothy, H.D., and Turk L.M., Fundamentals of soil science, John Wiley, New York, 1972

6. Govinda rajan, S.V., and Gopala Rao, H.G., Studies on soils of India, Vikas, New delhi, 1978
7. Mc Bride, M.B., Environmental Chemistry of soils, Oxford University Press, New York
8. Nye, P.H., and Greene, D.J., The soil under shifting cultivation, Common Wealth Bureau of soil science, Technical communication, No.51, Harpenden, England, 1960
9. Raychoudhuri, S.P., Soils of India, ICAR, New Delhi, 1958
10. Strahler, A.N., Physical geography, Wiley Eastern Pvt.Ltd., New Delhi, 1965
11. Addison, H., Land, water and food, Chapman and Hall, London, 1961
12. Chorley, R.J.,(ed), Introduction to Physical Hydrology, Methuen, London, 1969
13. Chorley, R.J.,(ed), Water, Earth and Man, Methuen, London, 1967
14. Dakshina Murthy, C., et al., Water resources of India and their utilization in agriculture, Indian agricultural Research Institute, New Delhi, 1973
15. Jones, J.A.A, Global Hydrology: Processess, Resources and Environmental Management, Longman, London, 1997
16. Matter, J.R., Water Resources, Distribution, Use and management, John Wiley, Marylane, 1984
17. Singh, R.A., and Singh, S.R., Water Management: Principles and Practices, Tara Publications, Varanasi, 1972
18. Todd, D.K., Groundwater Hydrology, John Wiley, New York, 1959

GR. 304. Disaster Management Studies

(IV Semester)

1. Definition and Concept of Hazards : Classification of hazards; Climate change causes and implications ; Natural hazards: Earthquakes; volcancity; landslides, land subsidence and avalanches; forest fires
2. Climatic hazards: Droughts and desertification: drought preparedness and monitoring, floods: flood control and management; Thunderstorms; tornadoes; Cyclones; heat waves, cold waves; hail storms
3. Coastal hazards : Coastal erosion; Storm surges and Tsunamis: Origin, propagation and devastation;
4. Human induced disasters: Urban and industrial disasters : Air pollution; Acid rains; Global warming and ozone depletion; Deforestation; Desertification; siltation; wetland degradation; Epidemics
5. Risk assessment; Disaster preparedness and management for various hazards; Geo-spatial technologies for disaster management; Remote sensing applications in disaster management

References:

1. Burton,I., Kates,R.W. and White,G.F., *Environment as Hazard*, 2nd edition, Guilford Press, New York, 1993.
2. Chakraborty, S.C., Natural Hazards and disaster management, Pragatishil Prakashak, Kolkata, 2007.

3. Schneid,T.and Collins,L., *Disaster Management and Preparedness*, Lewis Publishers,Washington, D.C, 1998.
4. Bryant Edwards (2005): *Natural Hazards*, Cambridge University Press, U.K.
5. Roy, P.S.; Van Westen, C.J.; Jha, V.K.; Lakhera, R.C. and Champati Ray, P.K., *Natural Disaster and their Mitigation: Remote Sensing and Geographical Information System Perspectives*, IIRS, Dehra Dun, Govt. of India, 2000.
6. Hewitt, K., *Regions of Risk: A Geographical Introduction to Disasters*, Longman, London, 1997
7. Rajib Shaw and R.R.Krishna Murthy (eds), 2009: *Disaster Management : Global challenges and local solutions*, University Press, Hyderabad.
8. D.B.N.Murthy, *Disaster Management: Text and Case Studies*, Publisher: Deep & Deep Publications
9. Bergman E.F., Renwick W. H., and Vasantha Kumaran T., 2008 : *Introduction to Geography: People, Places and Environment*, Pearson Education Inc.,

Gr.401: Agricultural Geography (IV Semester)

- UNIT – I Nature, scope, significance, and development of Agricultural Geography. Approaches to the study of Agricultural Geography. Determinants of agriculture.
- UNIT – II Von Thunen’s model of agricultural location- modifications, limitations and application in India. Whittlesey’s Classification of Agricultural Systems. Agricultural Typology - International Commission of the IGU
- UNIT – III Land holding and land tenure systems, Land use classification, land capability and land suitability. Agricultural concepts and their measurement. Land holding and land tenure systems, Land use classification, land capability and land suitability. Agricultural concepts and their measurement.
- UNIT – IV Agricultural regions of India and their characteristics. Agricultural typology of India. Five year plans and agriculture. Agricultural policy in India. Green revolution and implications. Specific problems in Indian agriculture.
- UNIT – V Contemporary issues- Food, nutrition and hunger. Food security and food aid programmes. Role of irrigation, fertilizers, insecticides and pesticides, technological knowhow. Significance of biotechnology, organic farming, polyhouse, tissue culture and recision farming. Sustainable agricultural development.

REFERENCES:

- Ali Mohammad: *Studies in Agricultural Geography*, Rajesh publications, New Delhi.
- Bayliss Smith, T.P.: *The Ecology of Agricultural Systems*. Cambridge University Press, London, 1987
- Berry, B.J.L. et al.: *The Geography of Economic Systems*. Prentice Hall, New York, 1976.
- Brown, L.R.: *The Changing World Food Prospects – The Nineties and Beyond*. World Watch Institute, Washington D.C., 1990.

Dyson, T.: Population and Food – Global Trends and Future Prospects, Routledge, London, 1996.
 Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
 Grigg, D.B.: The Agricultural Systems of the World, Cambridge University Press, New York, 1974.
 Hartshorn, T.N. and Alexander, J.W.: Economic Geography. Prentice Hall. New Delhi, 1988
 Jasbir Singh and Dhillon, S.S: Agricultural Geography. Tata Mc. Graw Hill, New Delhi. 1988
 Majid Hussain: Systematic Agricultural Geography, Rawat publications, New Delhi. 1996
 Mandal, R.B.: Land Utilisation, Theory and practical concept, New Delhi 1982
 Mannion, A.M.: Agriculture and Environmental Change, John Wiley, London, 1995.
 Mohammad Shafi: Agricultural geography, Dorling Kindersley (India) Pvt. Ltd, Delhi. 2006.
 Morgan, W.B.: Agriculture in the Third World – A Spatial Analysis. Westview Press, boulder, 1978.
 Sauer, C.O.: Agricultural Origins and Dispersals, . M.I.T. Press, Mass, U.S.A., 1969.
 Noor Mohammad: Perspectives in Agricultural Geography, Vol.1 to 5, Concept, New Delhi. 1981

Gr.402. Regional Planning and Development in India (IV Semester)

- Unit – I: Concept of Region Planning in India : Goals and Achievements- Ideology, objectives, challenges and opportunities. The systems approach – Economic regions, Environmental region, Administrative regions, Multi level planning regions.
- Unit – II Regional patterns and imbalances. Regional structure of population distribution – Population Density, Rural Urban ratio. Regional structure of Economic Development – History of Planning regions – (macro, meso, micro level) – Identification of planning regions in India. Trends in Regional Development planning. Metropolitan Regional Planning. Development of Backward areas. Regional Planning at the State level.
- Unit – III The process of Regional Development: Theoretical Foundations. Von Thunens concentric ring Model. Christaller’s Central Place theory. A new approach to Regional Development – Growth Pole Hypothesis.

- Inadequacies and modified version of the Growth Pole Hypothesis
Planning for Growth foci and emerging problems.
- Unit – IV An operational design for new approach. Choice of lower level – growth foci. Choice of Higher level growth foci. Problems of implementation. Planning for Tribal region.
- Unit – V Planning for Agricultural region. Planning for Industrial region.

References:

1. Regional Development Planning in India (A new Strategy) By- R.P.Misra, K.V.Sundaram, V.L.Prakasa Rao Account No.225720, Cell No.30924954.
2. Abler, R., et. al: Spatial Organization: The Geographer's View of the work, Hall, Englewood Cliffs, N.J.1971.
3. Bhat, L.S. : Regional Planning in India, Statistical Publishing Society, Calcutta, 1973.
4. Bhat, L.S. et al. : Micro-Level Planning: A Case Study of Karnal Area, Haryana, K.B.Publications, New Delhi, 1976.
5. Chorley, R.J. and Hagget, P. : Models in Geography, Methuen, London, 1967.
6. Christaller, W. : Central Places in Southern Germany, Translated by C.W.Baskin, Prentice Hall, Englewood Cliffs, New Jersey, 1966.
7. Indian Council of Social Science Research: Survey of Research in Geography, Popular Prakashan, Bombay, 1972.
8. Kundu, A. and Raza, Moonis: Indian Economy- The Regional Dimension. Spectrum publishers, New Delhi, 1982.
9. Misra, R.P. : Regional Planning: Concepts, Techniques and Policies, University of Mysore, Mysore, 1969.
10. Misra, R.P. and Others(editors): Regional Development Planning in India- A Strategy, Institute of Development Studies, Mysore, 1974.
11. Misra, A.: Levels of Regional Development, Census of India, Vol.I, Part I A (1) and (ii), New Delhi 1965.
12. Nangia Sudesh, Delhi Metropolitan Region Rajesh Publication, Delhi, 1976.
13. Sundaram, K.V.(ed.): Geography and Planning, Essays in Honour of V.L.S.Prakasa Rao, Concept Publishing Co., New Delhi, 1985.
14. Tarlok Singh India's Development Experience, Mc Millan New Delhi, India, 1947.
15. Raza Moonis (editor) Regional Development Heritage Publishers Delhi, 1988.
16. Misra, R.P. et. al. Multi-Level Planning Heritage Publishers, Delhi, 1980.
