DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: I

Subject: Geography

Title of Paper: Geomorphology

Unit - 1: Introduction of Geomorphology- Definition, Meaning, Nature and Scope, History of development of Geomorphology, Recent trends.

Unit - 2: Methods of study of landforms, Fundamental concepts - Geological structures and landforms - Evolution of landforms.

Unit - 3: Environmental change - Climatic change and geochronological methods, Morphogenetic Regions.

Unit - 4: Earth Movements - Epeirogenic, Orogenic and Cymatogenetic, Isostacy.

Unit - 5: Plate tectonics, Seismicity, Vulcanicity, orogenic structures with reference to evolution of Himalayas.

Suggested Readings:-

1. Chorley R.J.: Spatial Analysis in Geomorphology Methuen, London, 1972
2. Davis, W.M.: Geographical Essays, Dover, New York, 1964.
3. Sharma, H.S. (ed.) : Perspectives in Geomorphology, Concept, New Delhi 1980
4. Thornbury. W.D.: Principles of Geomorphology, John Wiley, New York, 1960.
5. Oliver, C.D. Weathering, Long man, London, 1979.
6. Garner, H.F. The Origin of Landscape - A Synthesis of

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: I

Subject: Geography

Title of Paper: Economic Geography

Unit-1

Scope, content and recent trends in economic geography, relation of economic geography with economics and other branches of social sciences location of economic activities and spatial organization, classification of economies. Sector of economy (primary, secondary and tertiary).

Unit-2

Factors of localization of economic activities: Physical, social, economic, and cultural, concepts and techniques of delimitations of agriculture region, crop combination and diversification, Von Tune's model and its modification.

Unit-3

Classification of industries: Resources based on foot-loose industries. Theories of industrial localization-Weber, Losch and Isard: case studies of selected industries-Iron and steel, Aluminum.

Unit-4

Modes of transportation and transport cost: accessibility and connectivity, Typology of market, network in rural society, market system in urban economy, role of market in the development of trade and commerce.

Unit-5

Economic development of India. Regional disparities. Impact of green revaluation on Indian economy, globalization and Indian economic its impact on environment.

Suggested Readings:-

- Berry B.J.L. :Geography of market centers and retail distribution , prentice hall New k 1967
- Chatterjee, S.P.: Economic geography of Asia, Allied Book Agencies, Calcutta. 1984
- Draze, J and Sen A India: Economic development and social opportunities, oxford university press, New Delhi 1996.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: I

Subject: Geography

Title of Paper: Geography of India: Physical & Resources

Unit – I

India: Characteristics of location, Unity and diversity. Major terrain units and their characteristics, drainage system and their functional significance to the country.

Unit – II

The Indian monsoon, regional and seasonal variation of weather, climatic division: Soil types. Their characteristics, distribution and problems; forest resources and their conservation.

Unit – III

Mineral and power resources, reserves, production and problems of conservation of major minerals.

Unit – IV

Water Resources potential of water resources, their regional distribution and utilization development and spatial pattern. Resource regions of India.

Unit – V

Population number, distribution and growth with special reference to post-Independence period and its implication, Literacy and education. Spatial patterns. Urbanization and characteristics of Indian cities.

Suggested Readings:

1. Das P.K.: The Monsoon. The National book Trust of India, New Delhi.
2. Deshpande, C.D.: India A Regional Interpretation, Northern Book Centre, New Delhi.
3. Mukerjee, A.B. & A. Azazuddin India. Culture, Society & Economy, Inter India New Delhi.
4. Singh Jagdish ;India, Gyanoday Gorakpur
5. Singh R.L., ed. India. A Regional Geography, N.G.S. India
6. Tiwari R.C. Geograhpy of India Allahabad : Prayag Pustak Bhawan, 2003

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: I

Subject: Geography

Title of Paper: History of Geographical Thoughts

Unit - 1:

The field of geography; Definition, aim, scope and nature of geography. Its place in the classification of sciences. Geography as a social science and natural science. Selected concepts in the philosophy of geography; distribution, relationships, interactions, areal differentiation and spatial organisation.

Unit – 2:

Development of geographical thought in ancient periods; Greek, Arab, Roman geographers. Geographical knowledge in Ancient India.

Unit - 3:

Contribution of various schools of thought in modern Geography (Geographers of Nineteenth Century) The German School - Ritter, Humbolt, Ratzal, The French School - Blache, Brunche, The Americans School - Sample, Davis, Harbertson, the British School, School, Mackinder.

Unit - 4:

Environmental Determinism, Possibilism and Neo- Determinism.

Unit - 5:

Dualism in Geography; Systematic and Regional Geography, Physical and Human Geography. The Myth and reality about dualism.

Suggested Readings

1. HartshomeR. : Perspectives on Nature of Geography Rand Me Nally & Co. 1959.
2. Husain M. : Evolution of Geographic Thought, Rawat Publication Jaipur 1984
3. Minshull R.: The Changing Nature of Geography Hutchinson University library London, 1970
4. Dikshit R.D. (ed.): The Art & Science of Geography, Readings, prentice Hall of India, New Delhi, 1994.
5. Taylor, G. (ed.) : Geography in Twentieth Century Methuen, London, 1951
6. Wooldridge S.W. : The Spirit & Purpose of Geography Hutchinson, London, 1955
7. Mishra H.N. : Research Methodology & Paradig

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: I

Subject: Geography

Practical Geography -I

Unit-1

Mathematical Construction of cylindrical projection – Simple cylindrical, cylindrical Equal Area and Mercator's Projection.

Unit-2

Mathematical Construction of Conical Projection: Conical one and Two Standard parallel, Bonnie's and poly conic projection.

Unit-3

Representation of Geographical data& Lorenz curve Ergo7graphy, Band graph, Rainfall dispersion diagram- Trend line.

Unit-4

Pyramid compound wind Rose, Triangular, water surplus diagram.

Unit-5

Detail Interpretation of Toposheets.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Practical Geography -II

Geographical Excursion and Report Writing.

Scheme of Marks -50

1- Report writing - 20 Marks

2- Presentation - 15

3- Viva-voce - 15

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Title of Paper: Climatology

Unit I

Nature and scope of climatology and its relationship with meteorology. Composition, mass and structure of the atmosphere.

Unit II

Insolation heat balance of the earth, green house effect; vertical and horizontal distribution of temperature.

Unit III

Atmospheric motion: Forces controlling motion of air vertical motion, local winds, jet stream. Monsoon winds, El Nino, cyclones, General circulation in the atmosphere.

Unit IV

Atmospheric moisture: Humidity, evaporation, condensation, precipitation: formation, Types, acid rain, world pattern of precipitation.

Unit V

Climatic classification of Koppen, and Thornwaite, Major Climates of the world tropical, temperate, desert and mountain. Climate.

Suggested Readings.

- Berry, B.J.L. and Chorley, P.J. Atmosphre weather and climate, routledge , London and new york, 1993
- Critchfield , J.S. General climatology prentice Hall , India, 1993 Peterson, Introduction to meteorology McGraw Hill Book London, 1969 Lal, D.S. Climatology chaitanya publication, Allhabad, 1986.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Title of Paper: Resource Management

Unit. I

Meaning, nature and classification of resources, culture and resources.

Unit. II

Resource appraisal methods and techniques, land evaluation concept and methods.

Unit. III

Resource allocation, concept, methods and techniques; Perspectives of resource development ; Conservation of resources : meaning, principles philosophy and approaches of resource conservation.

Unit. IV

Concept of resource management, theories of resource management; difference between resource development, conservation and management. Evaluation of social costs and benefits, status of common property resources : perception. Decision making in resource management.

Unit. V

Use and misuse of resources : global and Indian scenario, resource development policies in India. Environmental perception in resource management, impact assessment; natural hazards and risk management; sustainable resource management.

Suggested Readings :

1. Burton, I. And R.W. Kates : Readings in Resource Management and Conservation. Chicago Univ. Press. 1965
2. Chorley, R.J. ed. : Water, Earth and Man, Methuen, London, 1969
3. Cook, R.U. & J.C. Doornkamp: Geomorphogy in Environmental Management. Oxford, 1973.
4. Dawson J.A. & J.C. Doornkamp, eds : Evaluating the Human Environment. Edward Arnold, London, 1965
5. Firey, W.I. Man, Mind and Lan: A Theory of Resource Use. Free Press, Glencoe, 1960.

6. F.A.O. of U.N. : A Framework for Land Evaluation. Soil Bullet 32, Rome, 1979.
7. Holechek, J.L. et al : Natural Resources : Ecology, Economics and Policy. Prentice Hall, New Jersey, 2000

8. Kates, R.W. & I. Burton, eds : Geography Resources and Environment ; Vol. I & II. University of Chicago Press, Chicago 1986.

9. Maritino, R.L. : Resource Management. Mc Graw Hills, London 1969.
10. Mitchell, Bruce : Geography and Resource Analysis. Longman London, 1979
11. Owen, S.& P.L. Owens : Environment Resource & Conservation. Cambridge University Press, New York 1991

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Title of Paper: Geography of India: Economy and Regions

Unit-I

Economy ; An overview of Indian economy and impact of globalization on it. Cultivated lands- land use patterns, major crops and problems of agriculture.

Unit-II

Technological development in agriculture- Green revolution and its consequences; productivity of agriculture. determinents and pattern: agricultural regionalization of India.

Unit III

Industry- industrial development; and overview; locational factors and spatial pattern of major industries in India iron and steel, engineering goods, textiles, chemicals, cement, sugar and paper; industrial regions of India.

Unit IV

Transport and trade : Development of transport network, different mode of transport and their significance, internal and international trade of India - composition and change.

Unit V

Regions of India . Basis of regional division ; macro and meso regional division of India by OHK Spate and R.L. singh; detailed study of Narmada Basin, Malwa plateau, Bundelkhand upland, Chhatisgarh Basin and Marusthali.

Suggested Readings :

1 Das P.K. : The Monsoon. The National book Trust of India, New Delhi.
2 Deshpande, C.D. : India . A Regional Interpretation, Northern Book Centre, New Delhi.
3 Mukerjee, A.B. & A. Azazuddin India. Culture, Society & Economy, Inter India New Delhi.
4 Singh Jagdish; India, Gyanoday Gorakpur
5 Singh R.L., ed. India . A Regional Geography, N.G.S. India Varanasi. 1971
6 Tiwari R.C. Geograhpy of India Allahabad : Prayag Pustak Bhawan, 2003

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Title of Paper: Geography of Environment

Unit- I

Environment: Meaning, definition, concepts and theories related to environment. Components of Environment: Classification and their interdependent relationship.

Unit- II

Development of the environmental studies and their approaches. Development of Environmentalism in Geography. Environment and Development.

Unit- III

Ecological concepts: Ecosystem : meaning, definition, concept and components. Main terrestrial ecosystems of the world. forests and agriculture. Geography as human ecology.

Unit- IV

Environmental hazards. Natural and man induced hazards.

Unit- V

Environmental pollution: meaning, definition, nature and types . air, water, noise and others.

Suggested Readings:

1. Agarwal, Anil and Sunita Narain, Dying Wisdom : The Fourth Citizen

Report. Center for Science and Environment, New Delhi, 1998.

3. Cartledge, Bryen, Population and the Environment., O.U.P. New York 1995.
4. Chandna, R.C. : Environmental Awareness. Kalyani Publishers, New Delhi, 1998.
5. Dawson, J. and J.C. Doornkamp, eds. : Evaluating the Human Environment.
Edward Arnold, London 1975

6. Detwyler, J.R. : Man.s Impact on Environment. Pelican, 1970.

7. Edington, J.M. & M.A. Edington : Ecology and Environmental planning. Chapman & Hall, London 1977.

8. Goudie, Andrew. The Human Impact on The Natural Environment. 9. Blackwell oxford. U.K. 1994.
10. Jain, R.K. L.V. Urban and G.S. Stacy. Environmental Impact Analysis . A New Dimension in Decision . Making. Van Nostrand Reinhold Co. New York, 1977.

11. Khosho, T.N. Environmental Concepts and Strategies. Ashish Publishing House, New Delhi.

12. Khanna, B.K. All you wanted to know about Disasters. New Delhi : India Publishing Agency 2006.
13. Mohan, M. Ecology and Development. Rawat Publications, Jaipur, 2000.

14. Munn, R.E. Environmental Impact Assessment : Principles and

Procedures. John Wiley & Sons, New York, 1979.

15. Narain Sunita. The Citizen Fifth Report. Centre for science and Environment, New Delhi, 2003.

16. Mukerji A. and V.K. Agnihotri. Environment and Development. Concept Pub. Co., New Delhi, 1993.
17. Rudig, Wolfgeng. Environmental Policy. Edward Elger Publishing Ltd, U.K. 1998.
18. Saxena, H.M. Environmental Geography. Rawat Publications. Jaipur, 2000.
19. Saxena, H.M. Environmental Management. Rawat Publications. Jaipur, 2000.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Practical Geography -I

Unit I

Relief Profile Methods of Slope analysis.

Unit II

Block diagrams, Hypsographic curve.

Unit III

Computer Cartography, Mapping & diagrams techniques.

Unit IV

Zeological Maps – terminology & interpretation

Unit V

Survey by Indian tangent clinomoter, Abney Level and sextant .

Scheme of Marks

Hour Field work	- 10
Hour Lab work	- 25
Record Viva	- 15

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: II

Subject: Geography

Practical Geography –II

Village Survey & Report Writing

Scheme of Marks

Report	- 20
Presentation	- 15
Viva	- 15

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: III

Subject: Geography

Title of Paper: Oceanography

Max Marks: 100 (85+15 CCE)

Unit-I

Nature and scope of oceanography, distribution of land water, surface configuration of the ocean floor, submarine relief of Pacific, Atlantic and Indian Ocean.

Unit-II

Composition of ocean water, Distribution of temperature and salinity, horizontal and vertical distribution.

Unit-III

Circulation of oceanic water waves, tides and currents. Ocean deposits their sources and types.

Unit- IV

Corals and coral reefs: Types and theories of their origin, ocean as a source of food and minerals with special reference to Indian Ocean.

Unit-V

Chemistry of the sea biology environment of sea and impact of human on the Marine environments.

Suggested Reading:

- Garrison, T: Oceanography- An Introduction to marine Science.
- Books/ Cole Pacific Grove, USA, 2001
- King, C.M. A.: Oceanography for Geogrphers, 1962.
- Lal, D.S.: Oceanography. Sharda Pustak Bhawan, Allahbad, 2003.
- Sharma R.C. & A. Perry eds.: Applied Climatology: Principles and Practice, Routledge, London.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: III

Subject: Geography

Title of Paper: Urban Geography

Max Marks: 100 (85+15 CCE)

Unit-I

Nature and scope of urban Geography, Different approaches and recent trends in Urban Geography; Origin and growth of urban settlement: function classification.

Unit-II

Urban system; urban growth and theories, urban hierarchy, Central place theory of chritaller and Losch. Contribution of Indian Scholars to the studies of urban settlement. Urban Economic base and non-basic functions, input-output models, concepts of dualism: Colonial and post- colonial structure.

Unit-III

Urban morphology- city core, commercial**,** industrial and residential areas; modern urban landscape. Morphology of Indian urban settlement and its comparison with Western urban settlement.

Unit- IV

Land use models: concentric zone theory, sector model, Multiple nuclei Model; city regions, urban expansion, umland and periphery.

Unit-V

Urban policy and planning development of medium and small sized towns, Planning for new wards, City planning green belts, garden cities urban policy; contemporary issues in urban planning; globalization and urban planning in the Third world, urban landuse planning with special reference of Indian.

Suggested Reading:

- Alam, S. Manzoor: Hyderabad- Secunderabad; Twin Cities, Asia Publishing Houses, Bombay, 1964.
- Carter, H.: The Study of Urban Geography: Edward Arnold Publishers, London, 1972.
- Chorley, R.J. Op. & Haggett, Eds: Model in Geography. Methuen, London, 1972.
- Dickinson, R.E. City and Region. Routledge, London, 1964.
- Duncan, 0.0.: Metropolis and region. Jhon Hopkins Press, Baltimaore, 1960.
- Gibbs, J.P.: Urban Research Methods D. Von Nostrand Co. Inc. Princeto, New Jersey 1961.
- Hauser, Philip M. And SChnore Leo, Edu.: The study of Urbanization. Wiley, New York, 1965. Jhonson, J.H.: Urban Geography Pergoman Press, London 1967.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: III

Subject: Geography

Title of Paper: Geography of Tourism

Max Marks: 100 (85+15 CCE)

Unit- I

Basics of Tourisms definition of tourism, Factors affecting tourism, Historical, Natural Social- culture and Economics, Motivating factors for tourist: (Leisure, Recreation, elements of tourism as an industries.)

Unit- II

Geography of tourism- its spatial affinity, areal and location dimensions comprising physical, cultural, historical and economic, tourism: culture, eco- ethno- coastal and adventure tourism, national international tourism, globalization and tourism.

Unit-III

Indian tourism: regional dimension of tourist attraction: evolution of tourism, Promotion of tourism.

Unit-IV

Infrastructure and support system- short and longer destination-agencies and intermediataries accommodation and supplementary accommodation; other facilities, Tourism circuits, Indian Hotel Industry.

Unit- V

Impact of Tourism; Physical economics and social perceptions positive and negative impacts; Environments Law and Tourism currents trends, Spatial Patterns and recent and Changes; Role of Foreign capital.

Suggested Reading:

- Bhatia A.K.: Tourism Development: Principles and Practices. : Sterling Publishers, New Delhi 1996.
- Bhatiya, A.K. International Tourism- Foundamentals and Practice, Sterling, New Delhi (1991).
- Chandra R.H.: Hill Tourism Planning development: A Sustainable Reletionship Delhi, 1998.
- Hunter C and Green H. Tourism and Environmental: A Sustainable Reletionship Routledtage, London, 1995.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: III

Subject: Geography

Title of Paper: Agriculture Geography

Max Marks: 100 (85+15 CCE)

Unit-I

Nature scope and Signature of agriculture geography, Approaches of the study of agriculture geography, Commodity, Systematic and Regional: Origin and Dispersal of Agriculture.

Unit-II

Determinants of agriculture and use; Physical economics, social institutional and technological, theories of agricultural location based on several multi- dimension factors, Von Thunen's Theory of agricultural location and its recent modifications.

Unit-III

Land use land capability classification; concepts and measures of agriculture Productivities, agriculture efficiency and crop combination, diversification and specialization.

Unit-IV

Agricultural typology and regions; Kostrovickis scheme of agriculture typology critical review of whittlesey's classification agricultural regions, methods of agricultural regionalization.

Unit-V

Agriculture in India- Land use and changing cropping pattern. Regional Pattern of productivity in India. Green Revolution and its impact, white revolution; food deficit and food surplus regions; specific problem in India agriculture and their management agriculture policies in India.

Suggested Reading

- Noor Mohammad, ed. New Dimensions in agriculture geography.
- Mazid H.: Agriculture Geography.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: III

Subject: Practical Geography-I

Unit- I

Map Projection: Gnomic, Stereographic and Orthographic Projection by Mathematical methods.

Unit-II

Normal and Interrupted Sinusadidal and Mollweide Projection by mathematical methods

Unit-III

Rejection by Plane Table.

Unit-IV

Prismatic Compass Survey- Measurement of Included and Quadrant angles and adjustment of closing error by Bawditch method.

Unit-V

Measurement of Deviation- Mean, standard & Quartile Deviation, Chi-square &'t' test.

Max Marks: - 50

Scheme of marks

1- Field Work-15
2- Lab Work- 20
3- Record + Viva- 15

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: III

Subject: Practical Geography-II

Unit-I

Procedure a topographical map of 1:50,000 scale to study the settlement selected.

Unit-II

Collected Demographic, social & economic data of the village from Census reports to study the temporal changes in the profile of such characteristics.

Unit-III

Preparation of settlement site map through rapid survey to map the residential. Commercial recreation, educational, religious and other prominent features.

Unit-IV

Conduct socioeconomic survey of the area personally with a structural questionnaire, personal observation and perception.

Unit- V

Prepare a critical field survey reports with photography and sketches in addition to map and diagrams.

Max Marks: - 50

Scheme of marks

1- Report – 30
2- Presentation- 10
3- Viva- Voce- 10

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Research Methodology in Geography

Paper No. : I (Compulsory)

Max. Marks : 100 (85+15 CCE)

Unit-1

Concept of research inn social sciences, nature of geographical, research, Research approaches in geography- Traditional and behavioural, Experimental Research approaches in geography- Traditional and behavioural, Experimental research, Selection of case studies, observation, Inductive and deductive research., stages of research.

Unit-2

Identification of research problems, Specification and Objectives of research. Making of hypothesis and confidence levels, survey & Critical review of Literature and preparation of bibliography and reference materials, methods of review of Literature.

Unit-3

Nature of geographical data and information- Spatial and Non-spatial, Temporal, sources of primary and secondary data, topographical sheets, selection of indications and variables, Questionnaire, Schedule and Interview.

Unit-4

Rearrangement of central tendencies and dispersion, Variance, Correlation & regression.

Unit-5

Sampling design, sampling and types and procedure, standard error and testing, Tabulation of data, comparison of samples-parametric (T & F) and Non-parametric test (Chiquare test), Interpretation of data .

Suggested Readings :

1. Kothari, C.R. Research Methodology.
2. Kothari, C.R. Quantitative Technique.
3. Mishra, H.N. “Research Methodology in Geography.
4. Peter Haqqet” Quantitative Techniques in Geography.
5. Peter Hagget “ Models in Geography.
6. Cole and King “Statistical Analysis in Geography.
7. Deshprubhu- Suchitra- Sociological research.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Remote Sensing Technique

Paper No. : I (Compulsory)

Max. Marks : 100 (85+15 CCE)

Unit-1

Historical development of remote sensing. Relevance of remote sensing in geography, Electro-magnetic Spectrum. Remote sensing systems: Platforms, sensors.

Unit-2

Air photos and photogrammetry : Types of Air photos, Scales and ground coverage of air photos, Air photogrammetry system- Films, Filters, aerial cameras, Film exposures.

Unit-3

Elements of vertical photographs, relief displacement image parallax, stereoscopic air photo interpretation, shape, size, pattern, tone, texture, shadows, site

Unit-4

Satellite, orbital Characteristics of satellite remote sensing- LANDSAT, SPOT, RADARSAJ, IRS, INSAT: Principles and geometry of scanners, orbital Characteristics of satellite remote sensing.

Unit-5

GIS-(Geographical Information system)- GIS System- Definition of a Geographical information system, Scope of Geographical information system, Elements of Geographical Information system, Elements of Geographical Information. System Methodology of GIS procedure.

Suggested Readings:-

1. American Society of Photogrammety : Manual of Remote Sensing ASP, Falls Chukh, V.A. 1983.
2. Barrett E.C. and L.F. Curtis : Fundamentals of Remote Sensing and Air Photo Interpretation, Mcmillion, Network 1992.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Geography of Population

Paper No. : II (Optional)

Max. Marks: 100 (85+15 CCE)

Unit-1

Nature and scope of Population Geography, Development of population Geography as field of specialization. Its relation with the Demography. Sources of population data, their problems, mapping the population data.

Unit-2

Population distribution density : Growth of population theoretical issues, world patterns of fertility and mortality, Demographic Transition International Migration.

Unit-3

Population Composition- Age and Sex Composition: Literacy and education, occupational structure, Urbanization, Population Regions of the World.

Unit-4

Population Dynamics: Measurement of Fertility and Morality, World patterns of fertility and morality, Demographic Transition International Migration.

Unit-5

Population and Resources Development : Concept of optimum population, under population and over population. Theories of population Malthus, limits to growth. Population- Resources regions of the World.

Suggested Readings :

1. Boserup, E. The Conditions of Agricultural Growth, George. Allen & Unwin, London 1965.
2. Barcley, G.W. Techniques of Population Analysis. John Wiley, New York, 1959.
3. Bogue, D.J. : Principles of Demography, John Wiley, New York, 1969..
4. Bose, Ashish et.al. : Population in India's Development Vikas Publishing House, New Delhi.
5. Chandna R.C. : Geography of Population. Concept, Determinants and Patterns Kalyani.
6. Clark. J.I. Geography, Pergamon Press, Oxford,1973.
7. Crooch, Nigel : Principles of Population. Concept, Determinants and Pergamon, New York, 1997.
8. Daugherty, H.H. Kenneth C.W. Kammeyir; An Introduction to Population. The Guiford Press, New York, London, 1998.
9. Garnier, B.J. ; Geography of Population. Longman London, 1970

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Regional Planning & Development

Paper No. : III (Optional)

Max. Marks: 100 (85+15 CCE)

Unit-1

Regional Concept in geography, conceptual and theoretical framework, changing concept of Space. Types of region: Formal and functional **:** Uniform and nodalsingle purpose and composite regions in the context of planning : regional hierarchy.

Unit-2

Approaches to Delineation of different types of regions and their utility in planning. Physical regions, resources region, regional divisions according to variations in levels of socio-economic development : Special purpose regions-river valley regions, metropolitan regions, problematic regions tribal regions drought and flood prone region.

Unit-3

Planning process- temporal and spatial dimensions : Short term and long term perspectives of planning for regional development and multi regional planning in a national context.

Unit-4

Regional development strategies-concentration vs dispersal, case studies for plans of developed and developing countries : evaluation of regional plans of India. Indicators of development and their data sources Measuring levels of regional development and disparities case study of India.

Unit-5

Concept of Multi-level planning : decentralized planning : Peoples participation in the planning process : panchayat raj system role and relationship in the planning process : Panchayat raj system role and relationship of panchayat raj instrituion (Village panchayat, panchayat simiti and Zila parasid) and administrative structure (Village panchayat, block & district). Regional development in India-problems and prospects.

Suggested Readings :

1. Abler, R.et al : Spatial Organization- The Geographer's view of the world. Prentice Hall. .Bhat. L.S. regional planning India Statistical Pub. Society, Culcutta 1973
2. Mishra, R.P. et.al. " Regional Planning in India.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Biogeography

Paper No. : IV (Optional)

Max. Marks: 100 (85+15 CCE)

Unit 1

Scope and development of Biogeography Environment, Habitat and Plant animal association, biome types.

Unit-2

Elements of plant geography world. Distribution of Forests and their major communities Plant succession in newly formed landforms. Example from flood plains and glacial fore fields.

Unit-3

Zoogeography and its environmental relationship with special reference to tropical, temperate, cold forests and tidal regions.

Unit-4

Palaeobotanical and Palaoclimatologically changes in India and its impact on biosphere.

Unit-5-

National Forest Policy of India, Legal Provisions of Forest conservation and its implementation, conservation of Biotic resources.

Suggested Readings:-

1. Agrawal, D.P. Man and Environment in India Through Ages, Book & Books, 1992.
2. Bradsha, M.J. : Earth and Living Planet, ELBS, London, 1979.
3. Cox, C.D. and Moore, P.D. : Biogeograph : An Ecological and Evolution Approach 5th Ed. Blackwell, 1993.
4. Gaur, R. : Environment and Ecology of Early Man in Northern India R.B. Publication Corporation, 1987.
5. Hoyt, J.B. : Man and the Earth, Prentice Hall, U.S.A. 1992.
6. Huggett. R.J. : Fundamentals of Biogeography, Routledge, U.S.A. 1998.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Geography of Health

Paper No. : V (Optional)

Max. Marks: 100 (85+15 CCE)

Unit -1

Definition, Nature and Significance of Health Geography. Development of Health, Geography its distinction from Medical Sciences, relation with other allied sciences as well as social sciences, relation with other allied sciences as well as social sciences

Unit-2

Sources of disease incidence data and other related information primary and secondary sources. Elementary human Anatomy with special reference to respiratory and digestive system of human body.

Unit-3

Ecology of disease and disease epidemiology. Pathological environmental social and cultural and economic factors responsible for causation of diseases and other ill-health conditions.

Unit-4

Pollution syndrome: Various types of pollution and their role in disease incidence, Air Pollution and disorders in respiratory system water pollution and water borne diseases.

Unit-5 Classification of disease, Bases of diseases classification. International Classification of diseases. Role of WHO in classification of diseases in the world.

Suggested Reading :

1. Banerji, B. & J. Hazra: Geo-Ecology of Cholera in West Bangal, University of Calcutta, 1980.
2. Cliff, A. & P. Haggett : Atlas of Disease Distribution. Basil Blackwell, Oxford 1989
3. Digby A. & L. Stewart eds: Geflder, Health and welfare, Routledge, New York, 1996
4. Hazra, J. , Ed. : Health Care Planning in Developing Countries, University of Calcutta, 1997.
5. Howe, G.M. : A World Geography of Human Diseases. Academic Press, London, 1977.
6. Learmonth, A.T.A. : Patterns of Disease and Hunger – A Study in Medical Geography.
7. David and Charles, Victoria, 1978.
8. Learmoth, A.T.A. : Disease Ecology Great Britain, 1988.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Geography of Manufacturing

Paper No. : VI (Optional)

Max. Marks: 100 (85+15 CCE)

Unit-1

Nature, Scope and recent developments, elements and factors of localization of manufacturing industrial enterprises.

Unit-2

Theories and models of industrial location : Weber, Losch, Isard and Hoover. Modern refinements to least-Cost-theory; critical review and application of industrial location theories.

Unit-3

Distribution and spatial pattern of manufacturing Industries-Iron and Stell, textiles, Chemicals, Hardware and Software Industries.

Unit-4

Major Industrial regions of U.S.A. Asia and Europe. Methods of delineation of manufacturing regions.

Unit-5

Environmental degradation caused by manufacturing industries Industrial hazards and occupational health, Impact of manufacturing industries on economic development] impact of globalization on manufacturing sector, industries and its impact on the urban fringe, changing industrial policy.

Suggested Readings :

1. डॉ. प्रमिला कुमार एवं औद्योगिक भूगोल, म.प्र. हिन्दी ग्रंथ, डॉ. श्रीकमल शर्मा, अकादमी।

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Political Geography

Paper No. : VII (Optional)

Max. Marks: 100 (85+15 CCE)

Unit-1

Nature, Scope Subject matter and recent development in political geography approaches to study.

Unit-2

Geographic elements of the State : Physical elements, Human elements economic elements, relation Political geography and environment.

Unit-3

Themes in Political Geography: State, Nation, Nation-State and Nation building frontiers and boundaries. Colonisation, decolonization. Decolonization Federalism and other forms of Governance Conflicts and Cooperation.

Unit-4

Geopolitical Significance of Indian Ocean.

Unit-5

Political geography of SAARC Region. Impact of geography on foreign Policy of India, Changing Political map of India, Interstate issues: water disputes and riparian claims. New emerging issues and conflicts of Indian Politics.

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Practical I

Max. Marks: 50

Unit -1

Drainage density map, Frequency Curve.

Unit-2

Ae**rial** Photograph, Development of air photo, interpretation techniques. Types of photograph, photo mosaic and their comparision with Geographical maps.

Unit-4

Leval of Significance –Parametric test & nonparametric tests.

Unit-5

Remote Sensing techniques GIS]GPS & their application in Geographical Studies

Scheme of Marks

1. **Lab Work :30**
2. **Record book:10**
3. **Viva:10**

DR A P J ABDUL KALAM UNIVERSITY, INDORE

Post Graduate Semester wise Syllabus

(W.e.f. Session 2016 Onwards)

M.A Geography

Semester: IV

Title of Subject Group: Practical II

Max. Marks: 50

Unit-1

Dumpy level- Levelling and contouring

Unit-2

Theodolite survey.

Unit-3

Traffic Survey.

Unit-4

Geographical Study of an area & Report Writing

Unit-5

Nearest neighbour technique

Scheme of Marks

1. Survey : 15
2. Lab Work : 15
3. Area Report : 10
4. Record Vivo : 10