



R.K.D.F. UNIVERSITY, RANCHI

MASTER OF ARTS (Geography)

Scheme

The structure of the course will comprise Four-Papers in each Semester.

First Semester

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 Pass Marks (MSE:17 + ESE:28)=45

Mid Semester Examination (MSE):

There will be two groups of questions in written examinations of 20 marks. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be two groups of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of five questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to be answered.

Note:

There may be subdivisions in each question asked in Theory Examinations The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "Best of Two" shall be applicable for computation of marks for SIA.



R.K.D.F. UNIVERSITY, RANCHI

MASTER OF ARTS (Political Science)

First Year Syllabus Semester – I

| Course | Subject | Subject Code |
|-----------------|-------------------------------------|--------------|
| M.A.(Geography) | DEVELOPMENT OF GEOGRAPHICAL THOUGHT | MAG-101 |

DEVELOPMENT OF GEOGRAPHICAL THOUGHT

Theory: 60 Hours; Tutorial: 15 Hours

Unit 1:

The Field of Geography: Definition and Meaning of Geography, Nature and Scope of Geography, Geography as a Social and Natural Science, Limits in Geography, Traditions in Geography, Interdisciplinary and Intra-disciplinary approaches in Geography.

Unit 2:

Pioneers and their contributions to Geography: Ancient period – Greek, Romans, Indians and Chinese. Medieval period - Arabs and Geographical Discoveries. Modern period – French, British, American and Russian.

Unit 3:

Determinism, Possibilism: Neo-Determinism and Social Determinism, Quantitative Revolution. Geographical Models – need, features, types and classification. Geographical Paradigms.

Unit 4:

Explanations in Geography - Cognitive, Cause & Effect, Temporal & Functional, System Analysis and Regional Concepts, Modern Themes in Geographical Thought – Positivism, Existentialism, Realism, Radicalism, Behaviouralism.

References:

- Adhikari S. (2004) Fundamentals of Geographic thought, Concept Publishers, New Delhi.
Dikshit R.D. (2001). Geographical Thought: A Conceptual History of Ideas, Prentice Hall Publishing Company, New Delhi-2
Harvey ME (2002) Theme in Geographical Thought, R.K. Publications and Distributors, Ansari Road, N. Delhi
Majid Hussain (2001) Evolution of Geographic Thought, Rawat Publications, New Delhi-02
David Harvey (2000) Explanations in Geography, Macmillan, New York.
Peter Hagget (1972): Geography: A Modern Synthesis
Frazier J.W. (1982); Applied Geography, Prentice Hall, New Delhi.
Singh. I (2006): Diverse Aspect of Geographical Thought: ALFA Publications, New Delhi



R.K.D.F. UNIVERSITY, RANCHI

MASTER OF ARTS (GEOGRAPHY)

First Year Syllabus Semester – I

| Course | Subject | Subject Code |
|-----------------|---------------|--------------|
| M.A.(Geography) | GEOMORPHOLOGY | MAG-102 |

GEOMORPHOLOGY

Theory: 60 Hours; Tutorial: 15 Hours

Unit 1:

Geomorphology: Definition and Scope of Geomorphology, Fundamental concepts – Geological structure and land forms, Uniformitarianism, Multi cyclic and Poly cyclic evolution of landforms, Theories of landscape development

Unit 2:

Earth Movements: Orogenic, Epirogenic Movements and resultant landforms, Forces of instability, Isostasy, Plate Tectonics, Seismicity, Vulcanicity, Orogenic structures with reference to the evolution of the Himalayas.

Unit 3:

Exogenic Processes: Concept of gradation, Agents and processes of gradation, Process of Weathering and Mass Wasting, Landforms produced by – Drainage system and Drainage patterns, Slope evolution.

Unit 4:

Geomorphic Processes: Dynamics of Aeolian, Marine, Glacial, Coastal processes and resulting landforms, Recent Trends in Geomorphology, Applied geomorphology: Urban geomorphology, Geomorphic hazards.

References:

- Ahmed E. (1985) Geomorphology, Kalyani Publishers, New Delhi.
- Strahler A.N. (1968) The Earth Sciences, Harper & Row Intl. Edn, New York
- Thornberry W.D. (1969) Principles of Geomorphology 2nd Edition, Wiley Intl. Edn. & Wiley Eastern Reprints 1984.
- Verstappen H. (1983) Applied Geomorphology, Geomorphological Surveys for Environmental Development, Elsevier, Amsterdam
- Woodridge S.W and R.S. Morgan (1991) An Outline of Geomorphology, The Physical Basis of Geography, Orient Longman, Kolkata.
- Dayal P. (1995) A Text Book of Geomorphology 2nd Edition., Sukla Book/Dept. Patna.
- Homes A. (1965) Principles of Physical Geology, 3rd Edition, ELBSS Edn.
- Goudie Anrew et.al. (1981) Geomorphological Techniques, George Allen & Unwin, London.
- Bloom A.L. (1978) Geomorphology: A Systematic Analysis of Late Cenozoic Landforms Prentice – Hall of India, New Delhi.
- Singh, Savindra (2001): Bhuakriti Vigya, Pravalika Publications, Allahabad.
- Singh, Savindra (2015): Bhautik Bhugol, Pravalika Publications, Allahabad.
- Worcester P.G. (1965), A Text Book of Geomorphology, Can North and 2nd Edition, East-West Edn. N Delhi.
- J.A. Steers: Unstable Erath
- Tiwari, Ram Kumar (2016) Bhoutik Bhugol, Hindi Granth Academy, Jaipur, (Raj.)



R.K.D.F. UNIVERSITY, RANCHI

MASTER OF ARTS (GEOGRAPHY)

First Year Syllabus Semester – I

| Course | Subject | Subject Code |
|-----------------|-------------|--------------|
| M.A.(GEOGRAPHY) | CLIMATOLOGY | MAG-103 |

CLIMATOLOGY

Theory: 60 Hours; Tutorial:15 Hours

Unit 1:

Definitions, nature, scope of Climatology. Elements of weather and climate. Origin, Composition and Structure of atmosphere. Temperature: Solar radiation principles, Greenhouse effects, Horizontal and Vertical distribution of temperature & inversion of temperature. Global warming.

Unit 2:

Atmospheric Pressure: Pressure Gradient, Coriolis Effect, Horizontal and vertical distribution of Air Pressure and Pressure Belts. Winds: Planetary, Monsoons, Local Winds, Jet Streams. Mechanism of monsoon. Humidity and Precipitation. El-Nino and La Nina phenomena, El-Nino-Southern Oscillation (ENSO).

Unit 3:

Air masses: Definition, Nature, Source Region, Classification of air masses. Fronts - Frontogenesis and Frontolysis, Classification of fronts, Cyclones: Tropical Cyclones & Temperate Cyclones - Origin, types, structure and distribution.

Unit 4:

Classification of World climates: Koppen's & Thornthwaite classification. Climatic changes, Weather forecasting, Problems and prospects of weather forecasting in India.

References:

- Savindra Singh (2005): Climatology, Prayag Pustak Bhawan, 20-A, University Road, Allahabad- 02. UP.
- Critchfield H.J. (2005): General Climatology, Prentice Hall of India, Pvt. Ltd. New Delhi-01.
- Lal D.S (2009): Physical Geography, Sharada Pustak Bhawan, II, University Road, Allahabad – UP.
- Siddhartha K (2005): Atmosphere, Weather and Climate, Kisalaya Publications Pvt.ltd., C—2, Padma Apartment, Mehruli, New Delhi-30.
- Lal D.S. (2005): Climatology: Sharadu Pustak Bhawan, 11, Univ. Road, Allahabad -02, UP.
- Dasagupta A and Kapoor A.N. (1978): Principles of Physical Geography, Chand S & Co. Ltd. New Delhi.
- Strahler A.N. (1976): The Earth Sciences, Harpu & Row, Intl. Ed. New York.
- Alka Goutam (2012): Climatology, Prayag Pustak Bhawan, 20 A, University Road, Allahabad – 02, UP
- Tiwari, Ram Kumar (2016) Bhoutik Bhugol, Hindi Granth Academy, Jaipur, (Raj.)



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MASTER OF ARTS (Geography)

First Year Syllabus Semester – I

| Course | Subject | Subject Code |
|-----------------|-------------|--------------|
| M.A.(Geography) | PRACTICAL-I | MAG-104 |

PRACTICAL-I

Practical: 60Hours

Unit 1:

Map Projection: Sinusoidal Projection (Simple), Mollweide's Projection (interrupted), Globular Projection, Gnomonic Projection (Polar, Equatorial and Oblique).

Unit 2:

Geological Maps: Construction of sections and interpretation, Identification of rocks and minerals.

Unit 3:

Triangular Graph, Poly Linear Graph, Scattered diagram, Lorenz Curve, Divided Rectangular diagram.

Unit 4:

Profiles: Serial, Superimposed, Projected and Composite, Slope analysis (Wentworth's Method), Stream ordering.

References:

- Monkhouse F.J and Wilkinson HR (1952) Maps and Diagrams, their compilations and concentration, Muthuen & Co. London.
- Harwel JD, Newson MD. (1973)- Techniques in Physical Geography, Mc. Millan Edu. Ltd. London.
- Mishra RP. And Ramesh A (1968) – Fundamentals of Cartography, Prasaranga, University of Mysore, Mysore.
- Robinson & Marison (1995), Elements of Cartography USA.
- R.L. Singh (2010) Practical Geography, Sharada Pustak Bhavan, 11, University Road, Allahabad, UP - India
- Singh RL. (1979) Elements of Practical Geography, Kalyani Publishers, New Delhi.
- Sharma, J.P. (2011): Prayogik Bhugol, Rastogi Publications, Meeruth. Chouhan,
- P.R. (2005) Prayogik Bhogol, Vasundhara Prakashan, Gorakhpur.
- Hiralal (2006): Prayogik Bhugol, Radha Publications, New Delhi
- Tiwari, R.C. & Tripathi, S. (2011): Prayogatamak Bhugol, Prawalika Publications, Allahabad.
- Khullar, D.R. (2002): Prayogatamak Bhugol Ke Tatwa, New Academic Publishing Company, Jalandhar. Singh, L.R. (2011): Prayogik Bhugol Ke Sidhhant, Sharda Pustak Bhawan, Allahabad.



R.K.D.F. UNIVERSITY, RANCHI

MASTER OF ARTS (Geography)

Scheme

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SECOND SEMESTER

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Mid Semester Examination (MSE):

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End Semester Examination (ESE):

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MASTER OF ARTS (Geography)

First Year Syllabus Semester – II

| Course | Subject | Subject Code |
|-------------------------|--------------------|--------------|
| M.A.(Political Science) | GEOGRAPHY OF INDIA | MAG-201 |

GEOGRAPHY OF INDIA

Theory: 60 Hours; Tutorial:15 Hours

Unit 1:

Physical Setting of India: Location, Physiographic Divisions, Natural Drainage Systems and their Distribution. Climate: seasons & climatic regions. Soils: Types, Distribution, Erosion and Conservation. Natural Vegetation: Types and Distribution, Degradation and Conservation.

Unit 2:

Agriculture: Major Agricultural Crops: Rice, Wheat, Cotton, Sugarcane, Maize, Jowar, Tea, Coffee, Rubber, Mulberry Crops. Green Revolution in India, and Food Security in India. Irrigation: Major River Projects.

Unit 3:

Distribution, production and trade of important Minerals & Power resources: Iron Ore, Manganese, Mica, Copper, Bauxite, Coal, Petroleum, Natural Gas, Atomic Energy, Hydral and Thermal Power. Growth, Development and Distribution of Major Industries: Iron & Steel, Engineering, Cement, Paper, Fertilizers, Cotton Textiles, Silk, Knowledge-based Industries, Industrial Regions of India.

Unit 4:

Growth & Development of Transportation Transport System: Roads, Railways, Airways and Inland Water, Population: Growth and Distribution, Composition and Density, Literacy, Sex Ratio, Fertility & Mortality & Health Services.

References:

- Khullar DR. (2009): India: A Comprehensive Geography, Kalyani Publishes, New Delhi, Hyderabad, Kolkata.
- Alka Gautam (2009) Geography of India, Sharada Pustak Bhawan, University Road, Allahabad – UP.
- Sharma T.C. & Coutinho O (2005): Economic and Commercial Geography of India, Vikas Publishing House Ltd., New Delhi-14
- Tiwari R.C. (2008) Geography of India, Prayag Pustak Bhavan, 20-A, University Road, Allahabad- UP. Pritivish Nag & Smita Sengupta (1992) Geography of India, Concept Publishing Company, New Delhi – 59.
- Ranganath (2007): Geography of India, Vidhyanidhi Prakashan, Station Road, Gadag.
- Phani Deka & Abani Bhagabati (1992): Geography: Economic and Regional, Wiley Eastern Limited, Ansari Raod, Daryaganj, New Delhi-01.
- Majid Husain (2008): Geography of India, Tata Mc. Graw Hill Publishing Co. Ltd., New Delhi.
- Singh R.L. (1971) ; India: A Regional Geography, National Geographical Society of India, Varanasi, UP.
- Jadish Singh (2003): India: A comprehensive Systematic Geography, Gyanodaya Prakashan, Gorakhpur- UP.
- India: Year Books- (PRD Govt. of India publishes every year). <http://www.mapsofindia.com/geography>



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MASTER OF ARTS (Geography)

First Year Syllabus Semester – II

| Course | Subject | Subject Code |
|-------------------------|--------------|--------------|
| M.A.(Political Science) | OCEANOGRAPHY | MAG-202 |

OCEANOGRAPHY

Theory: 60 Hours; Tutorial:15 Hours

Unit 1:

Nature and scope of Oceanography, Configuration of Ocean Floor - Continental Shelf, Slope, Ocean Plains and Ocean Deeps, Physical and Chemical properties of ocean water: Composition, Temperature and Salinity

Unit2:

Surface currents, Waves and tides, Marine biological environment, Biozones, Types of organism, Plankton, Nekton and Benthos, Food and mineral resources of the sea.

Unit 3:

Major marine environment: Coastal, Estuaries, Deltas, Coastal Ecology-Coastal Dunes and Mangroves.

Unit 4:

Ocean Deposits: Types and Distribution, Coral Reefs: Origin, Types and Theories of Origin of Coral Reefs (Darwin, Dally and Murray). Impact of Humans on the Marine Environment. Recent Trends in Oceanography.

References:

- Lal. D.S. (2003) Oceanography, Sharada Pustak Bhavan, Allahabad 02.
- King Cuchalaine A.M. (2000) Oceanography for geographers, Edward Arnold publications, London.
- Savindra Singh (2004): physical geography, Prayog Pustak Bhavan, Allahabad -02
- Siddharth (2005) Oceanography: A brief introduction, Rawat Publishers. New Delhi.
- Sharma RC (2000) Oceanography for Geographers, Chaitanya Publishers, Allahabad -02
- Vattal and Sharma (2003), Oceanography for Geographers, Chaitanya Publishers, Allahabad -02
- Yadav A.S. (2002): Geography of Minerals of Oceans, concept Publishers, New Delhi,
- Basu S.K. (2003): Hand book of oceanography, Global vision, Delhi.
- Garisson Tom (1999): Oceanography, Cole, Wadsworth, New York.
- Sharma and Vattal (1962) Oceanography for Geographers, Chaitanya Publication House, Allahabad. Turman Harold (1985); Introductory Oceanography, Bell & Howell Co. London.
- Tiwari, Ram Kumar (2016) Bhautik Bhugol, Rajsthan Hindi Granth Academy, Jaipur.
- Gautam, Alka(2005): Jalwayu Evam Samudra Vigyan, Rastogi Publication, Meeruth. Kulshrestha,
- K.P. (2004): Samudra Vigyan, Kitab Ghar, Kanpur



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MASTER OF ARTS (Geography)

First Year Syllabus Semester – II

| Course | Subject | Subject Code |
|-----------------|----------------------|--------------|
| M.A.(Geography) | POPULATION GEOGRAPHY | MAG-203 |

POPULATION GEOGRAPHY

Theory: 60 Hours; Tutorial: 15 Hours

Unit 1:

Nature and Scope of Population Geography, Population Geography and Demography, Sources of Population Data, Distribution and Density of Population, Distribution and its Pattern in the World, Factors Influencing Distribution of Population in the world.

Unit 2:

Concept of Population Composition, Population Change: Growth of Population in the World and India, Components of Population Change, Fertility, Mortality and Migration, Determinants of Fertility and Mortality, Demographic Transition Theory.

Unit 3:

Migration - Meaning and Types, Causes and Consequences, Theories of Migration – Ravenstein & Lee.

Unit 4:

Population and Resources, Optimum Population, Population Resource Regions, Malthus Population Theory, Population Policy of India.

References:

- Chandna R.C. (2009), Geography of Population, Kalyani Publicishers, Ansari Road, Daryaganj, N. Delhi-2.
- Majid Hussain (1999), Human Geography, Rawat Publications, Jaipur.
- Trewartha GT. (1959) A Geography of Population, World Patterns, John Wiley and Sons Inc. New York.
- Ghosh BN. (1987) Fundamentals of Population Geography, Sterling Publishing Company, New Delhi
- R.K. Tripathi ((2000) Populaton Geography, Commonwealth Publishers, New Delhi.
- Kayastha, S.L. (1998) Geography of Population, Rawat Publications, Jaipur.
- Clerk I (1984) Geography of Population, Approaches and Applications, Pergamon Press, Oxford, UK.
- Tiwari, Ram Kumar (2015): Jansankhya Bhugol, Prwalika Publication, Allahabad.
- Hiralal (2007): Jansankhya Bugol Ke Mul Tatwa, Radha Publication, New Delhi.
- Mourya, S.D. (2011): Jansankhya Bhugol, Sharda Pustak Bhawan, Allahabad.
- Dubey, K.K. & Singh, M.B. (2001): Jansankhya Bhugol, Rawat Publication, Jaipur.



R.K.D.F. UNIVERSITY, RANCHI

MASTER OF ARTS (GEOGRAPHY)

First Year Syllabus Semester – II

| Course | Subject | Subject Code |
|-----------------|--------------|--------------|
| M.A.(GEOGRAPHY) | PRACTICAL-II | MAG-204 |

PRACTICAL-II

Practical: 60Hours

INSTRUMENTAL SURVEY (PRACTICAL)

Unit 1:

Importance of field work, Scope and purpose, Types of survey, Principles and applications of selected survey instruments, Plane Table, Plan preparation, Resection method: two point problem, three point problem, Tracing paper method.

Unit 2:

Prismatic Compass: Open and closed traverse, elimination of error by Bowditch Rule. Other smaller instruments: Sextant, Abney Level and Indian Clinometer. Dumpy Level: Traverse Survey, Spot height determination and contour plan preparation,

Unit 3:

Theodolite: horizontal and vertical (height) measurement, Accessible and inaccessible method. Survey of selected area, Preparation of base map by the use of surveying instruments.

Unit 4:

Measures of Central Tendency, Dispersion, Skewness, Kurtosis, Moments, Correlation, Regression.

References:

- Monkhouse F.J and Wilkinson HR (1952) Maps and Diagrams, their Compilations and Concentration, Muthuen & Co. London.
- Harwel JD, Newson MD. (1973)- Techniques in Physical Geography, Mc. Millan Edu. Ltd. London.
- Sarkar, A: Practical Geography – A Systematic Approach.
- R.L. Singh (2010) Practical Geography, Sharada Pustak Bhavan, 11, University Road, Allahabad, UP – India
- Singh RL. (1979) Elements of Practical Geography, Kalyani Publishers, New Delhi.
- Kaanetkar and Kulkarni: Surveying and Levelling, Part-I and Part-II.
- R.L. Singh (2010) Practical Geography, Sharada Pustak Bhavan, 11, University Road, Allahabad, UP - India
- Sharma, J.P. (2011): Prayogik Bhugol, Rastogi Publications, Meeruth.
- Chouhan, P.R. (2005) Prayogik Bhogol, Vasundhara Prakashan, Gorakhpur.
- Hiralal (2006): Prayogik Bhugol, Radha Publications, New Delhi
- Tiwari, R.C. & Tripathi, S. (2011): Prayogatamak Bhugol, Prawalika Publications, Allahabad. Khullar,
- D.R. (2002): Prayogatamak Bhugol Ke Tatwa, New Academic Publishing Company, Jalandhar

