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Revised Syllabus for MA / M.Sc. Semester I for Session 2020-21
Paper V: Practical

Unit I **20 Marks**	Earth and its coordinate System: Definition and classification of projections; Mathematical construction and characteristics of Polar Zenithal Gnomonic, Polar Zenithal Stereographic and Polar Zenithal Orthomorphic Projections.
Unit II **20 Marks**	Analysis of Drainage Network Pattern: Drainage Network-bifurcation ratio, length ratio, drainage density and drainage texture. Altimetric Analysis: Relative Relief, Analysis of Average Slope; Area-Height diagram and Hypsometric curve.
Unit III **20 Marks**	Basics of Remote Sensing: Stages of Remote Sensing, Electromagnetic Radiation, Spectral Regions, Atmospheric windows, Radiation Quantities, Radiation Laws, Platforms & Sensors and their Spatial, Spectral, Temporal & Radiometric resolutions.
Surveying: **20 Marks**	Graphic triangulation, plotting of details by plane table and Resection: Two and Three point problems.
Viva-Voce **10 Marks**	**Based on Field Work**
Record File **10 Marks**	**Lab Work Based**

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Revised Syllabus for MA / M.Sc. Semester I for Session 2020-21
Paper IV: North America

Unit-I   Physiographic Regions; Drainage Network; Climate, Soil and Vegetation

Unit-II   Agricultural, Mineral, Energy, and Industrial Complexes.

Unit-III   Demographic Growth and Migration, Ethnic Composition: Language, Religion and Culture

Unit-IV   Geographical study of Canada and Mexico.

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Revised Syllabus for MA / M.Sc. Semester I for Session 2020-21
Paper III: India

Unit-I   Physiographical and Structural Regions of India; Indian Monsoon – Origin, Pattern & Forecast. Floristic Regions; National Forest and Soil Policy.

Unit-II   Indian Agriculture; New Trends – Dry land farming, Green and White Revolutions, Eco-Farming; Agro-Climatic and Agro-Ecological Regions; Conventional and Non-Conventional Energy – Production & Distribution; Locational factors of Indian Industries; Industrial Regions.

Unit-III   Urban and Rural Settlements – Types, and Patterns; Urbanisation in India, Primate City, Functional Classification, Urban Morphology; Origin and Dispersal of Races in India; Major Tribes – Distribution and Classification.

Unit-IV   Five Year Planning in India: Achievements and Failures; Multi-Level Planning: Planning Regions – Bases of Delimitation & Classification.

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Revised Syllabus for MA / M.Sc. Semester I for Session 2020-21
Paper II: Geographical Thought

Unit-I   Development of Geography in second half of the 20th century; Concept of Paradigm; Positivism, Quantitative Revolution, System Analysis in Geography.

Unit-II   Behavioural Geography – Perception, Mental Maps, Decision making and Behaviour, Time – Space Geography, Humanistic Geography.

Unit-III   Radical Geography, Structuralism, Realism, Welfare Geography, Post – Modernism.

Unit-IV   Applied Geography, Spatial Inequality and Regional Imbalances, Geographers and Policy, Regional Planning, Feminist Geography, Future of Geography.

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Revised Syllabus for MA / M.Sc. Semester I for Session 2020-21
Paper I: Advanced Geomorphology

Unit-I   Methods and approaches to the study of landforms; Basic concepts in geomorphology: Scales (Stage/Time); Theories of landscape development.

Unit-II   Concept of Plate tectonics; Mass movement of rock waste and resultant landforms; Theories of slope development.

Unit-III   Fluvial (Process) Geomorphology – Morphometry of drainage basins; Profile of equilibrium; Climatic Geomorphology and Morphogenetic regions.

Unit-IV   Structural Geomorphology–Fold, Fault and Domal Structures and Landforms– Denudation Chronology of peninsular India and Himalayas.