SUNRISE UNIVERSITY ALWAR

Syllabus of PG- Two Year Master of Arts in

GEOGRAPHY (M.A.)

SESSION – 2025–26

Department of GEOGRAPHY

CURRICULUM STRUCTURE

Name of the Programme – Master of Arts (M.A.)
Subject – Geography

As per NEP 2020

YEAR – 1st

SEMESTER – 1st

Name of Programme: P G- M.A.(GEOGRAPHY)										
Subject/ Discipline: GEOGRAPHY										
Sr no	Subject code	Subject type	Subject Title				CREDITS	Internal Marks	External Marks	Total Marks
				L	T	P				
1	MAGEO-101	MJR	Geographical Thought (upto 18th Century))	6	0	0	4	40	60	100
2	MAGEO - 102	MJR	Geomorphology	6	0	0	4	40	60	100
3	MAGEO - 103	MJR	Advanced Economic Geography	6	0	0	4	40	60	100
4	MAGEO - 104	MJR	Environmental Geography	6	0	0	4	40	60	100
5	MAGEO-105P	DSCP-I	Practical-I	2			2		50	50
6	MAGEO - SEM106		SEMINAR		0	0	2	50		50
TOTAL MARKS = 500										

MAGEO–101 (MJR)

Geographical Thought (Up to 18th Century)

Unit I – Origin and Early Development of Geographical Thought

Sub-Units:

1. Meaning of Geography
2. Nature and Scope of Geography
3. Development of Geography
4. Ancient Indian Geography
5. Ancient Greek Geography

Unit II – Classical Geographers

Sub-Units:

1. Contribution of Strabo
2. Contribution of Ptolemy
3. Roman Geographers
4. Arab Geographers

Unit III – Medieval and Renaissance Geography

Sub-Units:

1. Medieval Geographical Thought
2. Development of Geography during the Renaissance

Unit IV – Geography in the 17th and 18th Century

Sub-Units:

1. Development of Geography during the 17th–18th Century
2. Impact of the Age of Exploration

MAGEO–102 (MJR)

Geomorphology

Unit I – Fundamentals of Geomorphology

Sub-Units:

1. Nature and Scope of Geomorphology
2. Internal Structure of the Earth

Unit II – Endogenic Processes

Sub-Units:

1. Plate Tectonics Theory
2. Volcanoes
3. Earthquakes

Unit III – Exogenic Processes

Sub-Units:

1. Weathering
2. Erosion
3. Deposition
4. River Action
5. Glacial Action
6. Wind Action
7. Marine Action

Unit IV – Landform Development Theories

Sub-Units:

1. Development of Landforms
2. Cycle of Erosion – William Morris Davis

MAGEO–103 (MJR)

Advanced Economic Geography

Unit I – Foundations of Economic Geography

Sub-Units:

1. Concept of Economic Geography
2. Scope of Economic Geography
3. Classification of Resources

Unit II – Agricultural and Industrial Location Theories

Sub-Units:

1. Agricultural Geography
2. Industrial Geography
3. Agricultural Location Theory – Johann Heinrich von Thünen

Unit III – Industrial and Transport Geography

Sub-Units:

1. Industrial Location Theory – Alfred Weber
2. Transport
3. Trade

Unit IV – Global Economic Development

Sub-Units:

1. Globalization
2. Economic Regional Development
3. Service Sector
4. Information Technology

MAGEO–104 (MJR)

Environmental Geography

Unit I – Environmental Concepts

Sub-Units:

1. Concept of Environment
2. Components of Environment
3. Ecosystem

Unit II – Environmental Issues

Sub-Units:

1. Biodiversity
2. Conservation
3. Environmental Pollution

Unit III – Climate and Disaster Studies

Sub-Units:

1. Climate Change
2. Global Warming
3. Disaster Management

Unit IV – Sustainable Development and Policies

Sub-Units:

1. Sustainable Development
2. Environmental Policies
3. Environmental Laws

MAGEO–105 (DSCP-I)

Practical – I

Unit I – Cartographic and Statistical Techniques

Sub-Units:

1. Cartographic Techniques
2. Study of Topographical Maps
3. Statistical Methods
4. Diagram Construction

5. Map Projection
6. Scale

MAGEO–SEM106

Seminar

Unit I – Academic Presentation and Research Skills

Sub-Units:

1. Topic Presentation
2. Research Paper Writing
3. Group Discussion
4. Internal Assessment

Reference Books:

MAGEO–101 (MJR)

Geographical Thought (Up to 18th Century)

Reference Books:

1. Geographical Thought: A Critical History of Ideas – David N. Livingstone
2. Perspectives in the History of Geographical Thought – Richard Hartshorne
3. A History of Geographical Thought – Geoffrey J. Martin
4. Geography and Geographers – Ron Johnston
5. Geographical Thought – Majid Husain

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2. MAGEO–102 (MJR)

Geomorphology

Reference Books:

1. Geomorphology – Savindra Singh
2. Principles of Geomorphology – W. D. Thornbury
3. Geomorphology – C. D. Ollier
4. Fundamentals of Geomorphology – Richard J. Huggett

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3. MAGEO–103 (MJR)

Advanced Economic Geography

Reference Books:

1. Economic Geography – Alexander B. Murphy
2. Economic Geography – Hartshorne & Alexander
3. Economic Geography – R. C. Chandna
4. Location and Space Economy – (Central Place Theory Reference)

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4. MAGEO–104 (MJR)

Environmental Geography

Reference Books:

1. Environmental Geography – Savindra Singh
2. Environmental Studies – Anubha Kaushik
3. Environmental Geography – R. C. Sharma
4. Principles of Environmental Science – Cunningham & Cunningham

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5. MAGEO–105P (DSCP-I)

Practical – I

Reference Books:

1. Practical Geography – Gopal Singh
2. Map Work and Practical Geography – R. L. Singh
3. Statistical Methods in Geography – P. R. Sharma

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6. MAGEO–SEM106

Seminar

Reference Books:

1. Research Methodology – C. R. Kothari
2. Research Methods in Geography – Basil Gomez & John Paul Jones
3. How to Write and Publish a Scientific Paper – Robert A. Day

YEAR – 1st

SEMESTER – 2nd

Postgraduate Programme (M.A. Geography)

Name of Programme: P G- M.A.(GEOGRAPHY)										
Subject/ Discipline: GEOGRAPHY										
Sr no	**Subject code**	**Sub-type**	**Subject Title**				CREDITS	**Internal Marks**	**External Marks**	**Total Marks**
				L	T	P				
1	MAGEO-201	MJR	Geographical Thought (Modern)	6	0		4	40	60	100
2	MAGEO - 202	MJR	Advanced Climatology and Oceanography	6	0		4	40	60	100
3	MAGEO - 203	MJR	Principles and Theory of Economic Geography	6	0		4	40	60	100
4	MAGEO - 204	MJR	Environment Management and Sustainable Development	6	0	0	4	40	60	100
5	MAGEO-205P	DSCP-II	Practical-II	0	0	2	2		50	50

6	MAGEO-SEM206		Village PROJECT	2	0	0	2	50		50
								TOTAL MARKS = 500		

MAGEO–201 (MJR)

Modern Geographical Thought

Unit I – Development of Modern Geography

Sub-Units:

1. Development of Modern Geography
2. Determinism
3. Possibilism

Unit II – Major Contributors to Modern Geography

Sub-Units:

1. Contribution of Alexander von Humboldt
2. Contribution of Carl Ritter
3. Friedrich Ratzel and Human Geography

Unit III – Regional and Possibilist Approaches

Sub-Units:

1. Paul Vidal de la Blache and Possibilism
2. Richard Hartshorne and Regional Geography

Unit IV – Contemporary Trends in Geography

Sub-Units:

1. Quantitative Revolution
2. Behavioural Geography

3. Humanistic Geography
4. Recent Trends in Geography

MAGEO–202 (MJR)

Advanced Climatology and Oceanography

Unit I – Structure and Elements of Climate (Climatology)

Sub-Units:

1. Structure of the Atmosphere
2. Temperature
3. Atmospheric Pressure

Unit II – Wind and Climate Systems

Sub-Units:

1. Wind Systems
2. Monsoon
3. Climate Classification – Wladimir Köppen

Unit III – Fundamentals of Oceanography

Sub-Units:

1. Structure of Oceans
2. Ocean Currents

Unit IV – Marine Phenomena and Management

Sub-Units:

1. El Niño
2. La Niña

3. Marine Resources
4. Coastal Management

MAGEO–203 (MJR)

Principles and Theories of Economic Geography

Unit I – Spatial Distribution of Economic Activities

Sub-Units:

1. Spatial Distribution of Economic Activities
2. Primary Sector
3. Secondary Sector
4. Tertiary Sector

Unit II – Central Place and Market Theories

Sub-Units:

1. Central Place Theory – Walter Christaller
2. Market Area Theory – August Lösch

Unit III – Industrial and Regional Development

Sub-Units:

1. Industrial Localization
2. Globalization
3. Regional Economic Inequality

Unit IV – Trade and Service Economy

Sub-Units:

1. Trade Networks

2. Transport Networks
3. Service Sector
4. E-Commerce

MAGEO–204 (MJR)

Environmental Management and Sustainable Development

Unit I – Environmental Management Concepts

Sub-Units:

1. Concept of Environmental Management
2. Resource Conservation

Unit II – Environmental Assessment and Biodiversity

Sub-Units:

1. Environmental Impact Assessment (EIA)
2. Biodiversity Conservation

Unit III – Sustainable Development Framework

Sub-Units:

1. Sustainable Development Goals (SDGs)
2. Water Resource Management
3. Energy Resource Management

Unit IV – Climate Policy and Risk Reduction

Sub-Units:

1. Climate Change Policies

2. Disaster Risk Reduction

MAGEO–205P (DSCP-II)

Practical – II

Unit I – Statistical and Mapping Techniques

Sub-Units:

1. Mean
2. Standard Deviation
3. Correlation
4. Thematic Mapping
5. Introduction to GIS
6. Introduction to Remote Sensing
7. Data Analysis

MAGEO–SEM206

Village Project

Unit I – Field Survey and Analysis

Sub-Units:

1. Regional Survey of Selected Village
2. Socio-Economic Profile
3. Resource Mapping
4. Field Report Writing
5. Presentation
6. Viva-Voce

MAGEO–201 (MJR)

Modern Geographical Thought

Reference Books:

1. Geographical Thought: A Critical History of Ideas – David N. Livingstone
2. Geography and Geographers – Ron Johnston
3. A History of Geographical Thought – Geoffrey J. Martin
4. Geographical Thought – Majid Husain
5. Perspective on the Nature of Geography – Richard Hartshorne
6. Principles of Human Geography – Friedrich Ratzel

MAGEO–202 (MJR)

Advanced Climatology and Oceanography

Reference Books:

1. Climatology – D. S. Lal
2. Atmosphere Weather and Climate – Barry & Chorley
3. General Climatology – H. J. Critchfield
4. Oceanography – G. L. Pickard
5. Introduction to Physical Oceanography – Robert H. Stewart

MAGEO–203 (MJR)

Principles and Theories of Economic Geography

Reference Books:

1. Economic Geography – Alexander B. Murphy
2. Economic Geography – R. C. Chandna
3. Central Places in Southern Germany – Walter Christaller
4. The Economics of Location – August Lösch
5. The Theory of Industrial Location – Alfred Weber

MAGEO–204 (MJR)

Environmental Management and Sustainable Development

Reference Books:

1. Environmental Geography – Savindra Singh
2. Environmental Impact Assessment – Kathleen M. Wood
3. Our Common Future – WCED (Brundtland Report)
4. Sustainable Development – John Blewitt
5. Disaster Management – Harsh K. Gupta

MAGEO–205P (DSCP-II)

Practical – II

Reference Books:

1. Statistical Methods for Geography – P. R. Sharma
2. Practical Geography – Gopal Singh
3. Geographical Information Systems and Science – Paul A. Longley et al.
4. Remote Sensing and Image Interpretation – Lillesand & Kiefer

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MAGEO–SEM206

Village Project

Reference Books:

1. Research Methodology – C. R. Kothari
2. Rural Development – Katar Singh
3. Field Methods in Geography – N. K. Thakur
4. Survey Research Methods – Floyd J. Fowle

YEAR – 2nd | SEMESTER – 3rd

Name of Programme: P G- M.A.(GEOGRAPHY)											
Subject/ Discipline: GEOGRAPHY											
Sr no	**Subject code**	**Sub-type**	**Subject Title**	L	T	P		CREDITS	**Internal Marks**	**External Marks**	**Total Marks**
1	MAGEO-301	MJR	Advanced Geography of India	6	0	0		4	40	60	100
2	MAGEO - 302	MJR	Agriculture Geography OR Disaster Perception andManagement	6	0	0		4	40	60	100
3	MAGEO - 303	MJR	Urban Geography OR Regional Planning and Development	6	0	0		4	40	60	100
4	MAGEO - 304	MJR	Research Methodology	6	0	0		4	40	60	100
5	MAGEO-305P	DSCP-III	Practical-III	0	0	2		2		50	50
6	MAGEO - SEM306		Jurnalism and mass communication	2	0	0		2	50		50
TOTAL MARKS = 500											

MAGEO–301 (MJR)

Advanced Geography of India

Unit–I: Physical Structure of India

Sub-Units:
1.1 Geographical Location and Strategic Importance
1.2 Physiographic Divisions of India
1.3 Drainage System and River Basins
1.4 Climate and Monsoon Mechanism
1.5 Natural Vegetation and Soil Types

Unit–II: Resources of India

Sub-Units:
2.1 Water Resources: Availability and Utilization
2.2 Mineral Resources: Distribution and Production
2.3 Energy Resources (Conventional & Non-Conventional)
2.4 Forest Resources and Biodiversity
2.5 Resource Conservation and Management

Unit–III: Population and Economic Development

Sub-Units:
3.1 Distribution, Density and Growth of Population
3.2 Population Composition and Problems
3.3 Agricultural Development and Green Revolution
3.4 Industrial Development and Industrial Regions
3.5 Transport and Communication Network

Unit–IV: Regional Development of India

Sub-Units:
4.1 Major Physical and Economic Regions of India
4.2 Regional Imbalances and Disparities

4.3 Planning Regions of India
4.4 Sustainable Development Goals in Indian Context

MAGEO–302 (MJR)

(A) Agricultural Geography

Unit–I: Nature and Scope of Agricultural Geography

Sub-Units:
1.1 Definition and Scope
1.2 Determinants of Agriculture (Physical & Economic)
1.3 Types of Agriculture

Unit–II: Agricultural Patterns

Sub-Units:
2.1 Cropping Pattern in India
2.2 World Agricultural Regions
2.3 Green Revolution and Its Impact

Unit–III: Agricultural Productivity

Sub-Units:
3.1 Measurement of Agricultural Productivity
3.2 Irrigation and Technological Inputs
3.3 Land Use Pattern

Unit–IV: Agricultural Development and Environment

Sub-Units:
4.1 Agricultural Regionalization
4.2 Sustainable Agriculture
4.3 Environmental Issues in Agriculture

OR

(B) Disaster Perception and Management

Unit–I: Concept of Disaster

Sub-Units:
1.1 Definition and Classification of Disasters
1.2 Hazard, Risk and Vulnerability
1.3 Disaster Cycle

Unit–II: Types of Disasters

Sub-Units:
2.1 Earthquakes
2.2 Floods
2.3 Cyclones
2.4 Drought

Unit–III: Disaster Risk Reduction

Sub-Units:
3.1 Mitigation and Preparedness
3.2 Early Warning Systems
3.3 Community Participation

Unit–IV: Disaster Management in India

Sub-Units:
4.1 Institutional Framework in India
4.2 National Disaster Management Policy
4.3 Role of GIS and Remote Sensing

MAGEO–303 (MJR)

(A) Urban Geography

Unit–I: Foundations of Urban Geography

Sub-Units:
1.1 Concept and Scope
1.2 Urbanization Process
1.3 Theories of Urban Growth

Unit–II: Urban Structure and Classification

Sub-Units:
2.1 Classification of Towns
2.2 Functional Classification
2.3 Metropolitan Cities

Unit–III: Urban Land Use Models

Sub-Units:
3.1 Concentric Zone Model
3.2 Sector Model
3.3 Multiple Nuclei Model

Unit–IV: Urban Planning and Problems

Sub-Units:
4.1 Urban Planning Concepts
4.2 Smart Cities
4.3 Urban Environmental Issues

OR

(B) Regional Planning and Development

Unit–I: Concept of Region

Sub-Units:
1.1 Types of Regions
1.2 Regionalization Methods
1.3 Need for Regional Planning

Unit–II: Theories of Regional Development

Sub-Units:
2.1 Central Place Theory
2.2 Growth Pole Theory
2.3 Core-Periphery Model

Unit–III: Regional Planning in India

Sub-Units:
3.1 Planning Regions of India
3.2 Five Year Plans
3.3 Regional Development Programmes

Unit–IV: Sustainable Regional Development

Sub-Units:
4.1 Rural-Urban Linkages
4.2 Balanced Regional Development
4.3 Sustainable Development Strategies

MAGEO–304 (MJR)

Research Methodology

Unit–I: Research Fundamentals

Sub-Units:
1.1 Meaning and Types of Research

1.2 Research Problem and Hypothesis
1.3 Research Design

Unit–II: Methods of Data Collection

Sub-Units:
2.1 Primary Data Collection
2.2 Secondary Data Sources
2.3 Sampling Techniques

Unit–III: Data Analysis Techniques

Sub-Units:
3.1 Statistical Methods
3.2 Cartographic Techniques
3.3 Use of GIS

Unit–IV: Report Writing

Sub-Units:
4.1 Structure of Research Report
4.2 Citation and Referencing
4.3 Presentation of Data

MAGEO–305P (DSCP–III)

Practical – III

Unit–I: Map Preparation

Unit–II: Statistical Techniques

Unit–III: GIS Applications

Unit–IV: Field Survey and Project Report

MAGEO–SEM306

Journalism and Mass Communication

Unit–I: Introduction to Journalism

Unit–II: News Writing and Reporting

Unit–III: Media Forms (Print, Electronic, Digital)

Unit–IV: Media Ethics and Development Communication

References:

MAGEO–301 (MJR) – Advanced Geography of India

Core References:

1. **R. L. Singh** – India: A Regional Geography
2. **Majid Husain** – Geography of India
3. **S. D. Maurya** – Geography of India
4. **Khadg Singh Valdiya** – The Making of India: Geodynamic Evolution
5. **Government of India** – Economic Survey of India (Latest Edition)
6. **Ministry of Environment, Forest and Climate Change** – India State of Forest Report

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MAGEO–302 (MJR)

(A) Agricultural Geography

1. **J. C. Weaver** – Crop Combination Regions in the Middle West
2. **Majid Husain** – Agricultural Geography
3. **R. L. Singh** – Agricultural Geography
4. **Jasbir Singh** – Agricultural Geography
5. **Food and Agriculture Organization** – FAO Reports (Latest)

(B) Disaster Perception and Management

1. **H. K. Gupta** – Disaster Management
2. **National Disaster Management Authority** – NDMA Guidelines
3. **United Nations Office for Disaster Risk Reduction** – UNDRR Reports
4. **P. D. Sharma** – Ecology and Environment

MAGEO–303 (MJR)

(A) Urban Geography

1. **R. E. Dickinson** – City and Region
2. **O. H. K. Spate** – India and Pakistan: A General and Regional Geography
3. **Majid Husain** – Urban Geography
4. **Chauncy Harris** & **Edward Ullman** – Multiple Nuclei Model

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(B) Regional Planning and Development

1. **Walter Christaller** – Central Place Theory
2. **August Lösch** – The Economics of Location
3. **John Friedmann** – Regional Development Policy
4. **Myrdal Gunnar** – Economic Theory and Underdeveloped Regions

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MAGEO–304 (MJR) – Research Methodology

1. **Kothari C. R.** – Research Methodology: Methods and Techniques
2. **B. L. S. Prakash Rao** – Statistical Methods in Geographical Studies
3. **Sudhir Wanmali** – Research Methodology in Geography
4. **Ian Heywood** – An Introduction to Geographical Information Systems

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MAGEO–305P (DSCP–III) – Practical III

1. **R. P. Misra** – Fundamentals of Cartography
2. **Monkhouse F. J.** – Maps and Diagrams
3. **Peter A. Burrough** – Principles of Geographical Information Systems

4. **Survey of India** – Topographical Maps

MAGEO–SEM306 – Journalism and Mass Communication

1. **Keval J. Kumar** – Mass Communication in India
2. **Rangaswami Parthasarathy** – Journalism in India
3. **B. N. Ahuja** – Theory and Practice of Journalism
4. **Press Council of India** – *Media Ethics Guidelines*

YEAR – 2nd |

SEMESTER – 4th

Name of Program : P G- M.A.(GEOGRAPHY)										
Subject/ Discipline: GEOGRAPHY										
Sr no	**Subject code**	**Sub-type**	**Subject Title**				CREDITS	**Internal Marks**	**External Marks**	**Total Marks**
				L	T	P				
1	MAGEO-401	MJR	Advanced Geography of Rajasthan	6	0	0	4	40	60	100
2	MAGEO - 402	MJR	Advanced Geomorphology	6	0	0	4	40	60	100
3	MAGEO - 403	MJR	Fundamentals of Remote Sensing	6	0	0	4	40	60	100
4	MAGEO - 404	MJR	BioGeoraphy	6	0	0	4	40	60	100
5	MAGEO-405P	DSCP-IV	Practical-IV	0	0	2	2		50	50
6	MAGEO - SEM406		Dissertation	2	0	0	2		50	50
TOTAL MARKS = 500										

1. MAGEO–401 (MJR)

Advanced Geography of Rajasthan

Unit–I: Physical Environment of Rajasthan

Sub-Units:

1.1 Location, Extent and Physiographic Divisions
1.2 Aravalli Mountain System
1.3 Climate and Climatic Regions
1.4 Drainage System and Water Resources
1.5 Soils and Natural Vegetation

Unit–II: Resources of Rajasthan

Sub-Units:
2.1 Mineral Resources and Mining Regions
2.2 Power Resources (Thermal, Solar, Wind)
2.3 Forest Resources
2.4 Water Resource Development (Indira Gandhi Canal Project)
2.5 Conservation of Resources

Unit–III: Population and Economic Development

Sub-Units:
3.1 Distribution and Growth of Population
3.2 Urbanization in Rajasthan
3.3 Agricultural Development
3.4 Industrial Development
3.5 Transport and Tourism

Unit–IV: Regional Development and Issues

Sub-Units:
4.1 Regional Imbalances in Rajasthan
4.2 Desertification and Environmental Problems
4.3 Drought and Water Scarcity
4.4 Sustainable Development Strategies

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2. MAGEO–402 (MJR)

Advanced Geomorphology

Unit–I: Fundamentals of Geomorphology

Sub-Units:
1.1 Nature and Scope of Geomorphology
1.2 Endogenic and Exogenic Processes
1.3 Plate Tectonics Theory
1.4 Earth Movements

Unit–II: Fluvial and Arid Geomorphology

Sub-Units:
2.1 Fluvial Processes and Landforms
2.2 Drainage Patterns
2.3 Arid Landforms
2.4 Desertification

Unit–III: Coastal and Glacial Geomorphology

Sub-Units:
3.1 Coastal Processes and Landforms
3.2 Marine Erosion and Deposition
3.3 Glacial Processes and Landforms
3.4 Periglacial Features

Unit–IV: Applied Geomorphology

Sub-Units:
4.1 Geomorphology in Engineering
4.2 Environmental Geomorphology
4.3 Slope Development Theories
4.4 Quantitative Geomorphology

3. MAGEO–403 (MJR)

Fundamentals of Remote Sensing

Unit–I: Basics of Remote Sensing

Sub-Units:
1.1 Definition and History
1.2 Electromagnetic Radiation
1.3 Interaction of EMR with Atmosphere and Earth Surface
1.4 Types of Remote Sensing

Unit–II: Platforms and Sensors

Sub-Units:
2.1 Aerial Photography
2.2 Satellite Platforms
2.3 Sensor Types (Active and Passive)
2.4 Resolution (Spatial, Spectral, Temporal, Radiometric)

Unit–III: Image Interpretation and Analysis

Sub-Units:
3.1 Visual Interpretation Techniques
3.2 Digital Image Processing
3.3 False Colour Composite
3.4 Image Classification

Unit–IV: Applications of Remote Sensing

Sub-Units:
4.1 Agriculture and Forestry
4.2 Urban Planning
4.3 Disaster Management
4.4 Water Resource Management

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4. MAGEO–404 (MJR)

Biogeography

Unit–I: Fundamentals of Biogeography

Sub-Units:
1.1 Meaning and Scope
1.2 Biosphere and Ecosystem
1.3 Biomes of the World
1.4 Biodiversity

Unit–II: Plant and Animal Distribution

Sub-Units:
2.1 Factors Affecting Distribution
2.2 Zoogeographical Regions
2.3 Phytogeographical Regions
2.4 Endemism

Unit–III: Ecological Concepts

Sub-Units:
3.1 Food Chain and Food Web
3.2 Ecological Succession

3.3 Ecotone and Edge Effect
3.4 Ecological Balance

Unit–IV: Environmental Conservation

Sub-Units:
4.1 Environmental Degradation
4.2 Wildlife Conservation
4.3 Protected Areas of India
4.4 Sustainable Development

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5. MAGEO–405P (DSCP–IV)

Practical – IV

Unit–I: Aerial Photo Interpretation

Unit–II: Satellite Image Interpretation

Unit–III: Geomorphological Mapping

Unit–IV: Field Survey and Project Report

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6. MAGEO–SEM406

Dissertation

Components:

- Selection of Research Topic
- Review of Literature
- Research Methodology

- Field Work / Data Collection
- Data Analysis
- Report Writing
- Viva-Voce Examination

References:

MAGEO–401 (MJR) – Advanced Geography of Rajasthan

Core References:

1. **H. S. Sharma** – Geography of Rajasthan
2. **L. R. Bhalla** – Modern Geography of Rajasthan
3. **R. L. Singh** – Regional Geography of India (Rajasthan Chapters)
4. **Government of Rajasthan** – Rajasthan Economic Review (Latest Edition)
5. **Central Arid Zone Research Institute** – Research Publications on Desert & Arid Studies
6. **Geological Survey of India** – Reports on Mineral Resources of Rajasthan

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MAGEO–402 (MJR) – Advanced Geomorphology

Core References:

1. **Richard J. Chorley** – Geomorphology
2. **Arthur N. Strahler** – Physical Geography
3. **Savindra Singh** – Geomorphology
4. **Lester C. King** – The Morphology of the Earth
5. **William D. Thornbury** – Principles of Geomorphology

MAGEO–403 (MJR) – Fundamentals of Remote Sensing

Core References:

1. **Lillesand Thomas M.** & **Ralph W. Kiefer** – Remote Sensing and Image Interpretation

2. **Anji Reddy M.** – Remote Sensing and GIS
3. **Jensen John R.** – Introductory Digital Image Processing
4. **Indian Space Research Organisation** – NRSC Publications & Bhuvan Portal
5. **National Remote Sensing Centre** – Training Manuals & Reports

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MAGEO–404 (MJR) – Biogeography

Core References:

1. **C. B. Cox** & **Peter D. Moore** – Biogeography: An Ecological and Evolutionary *Approach*
2. **Savindra Singh** – Environmental Geography
3. **Tivy Joy** – Biogeography: A Study of Plants in the Ecosphere
4. **International Union for Conservation of Nature** – IUCN Red List Reports
5. **Ministry of Environment, Forest and Climate Change** – Protected Areas & Biodiversity Reports

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MAGEO–405P (DSCP–IV) – Practical IV

References:

1. **Lillesand Thomas M.** – Remote Sensing and Image Interpretation
2. **Peter A. Burrough** – Principles of Geographical Information Systems
3. **Survey of India** – Topographical Sheets
4. **Indian Space Research Organisation** – Satellite Data Manuals

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2. **Ian Heywood** – An Introduction to Geographical Information Systems
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