

M.Sc. in Remote Sensing and GIS**SEMESTER - 1**

Paper No	Subject	Contents Of Syllabus
Paper - I	PHYSICAL GEOGRAPHY	NATURE OF PHYSICAL GEOGRAPHY ORIGIN OF THE EARTH AGE OF THE EARTH STRUCTURE OF THE EARTH'S INTERIOR CONTINENTS AND OCEAN BASINS THEORY OF ISOSTASY GLACIAL AND PERIGLACIAL LANDFORMS
Paper - II	GEOGRAPHY INFORMATION SYSTEM	INTRODUCTION TO GIS DEFINING GIS THE USES OF GIS AN OVERVIEW OF THE GIS INDUSTRY AND GIS SOFTWARE. WHY IMPLEMENT A GIS? GIS DATA SOURCES, COLLECTION, AND ENTRY GATHERING THE INFORMATION NEEDED TO MAKE A GIS USEFUL. GIS DATE FORMATS AND STANDARDS THE PRICIPAL TYPES OF GIS DATA AND IMPORTANT GIS DATA STANDARDS. TYPES OF GIS ANALYSIS. THE ECONOMICS OF GIS BASE MAP ACCURACY
Paper - III	PRINCIPALS OF REMOTE SENSING	INTRODUCTION TO REMOTE SENSING REMOTE SENSING DATA ACQUISITION ALTERNATIVES IMAGE PROCESSING SYSTEMS INITIAL STATASTICS EXTRACTION
Paper -IV	SPATIAL DATABASE DESIGN	OBJECT MODELLING AND GEODATABASES HOW MAPS INFORM SMART FEATURES
Paper - V	MODERN CARTOGRAPHY AND DIGITIZATION	MODERN CARTOGRAPHY TECHNIQUES MAPPING THE USE AND MISUSE OF LANDS OF INDIAN ARID ZONE CARTOLOGY A RESOURCE TO RELIEF COMPUTER APPLICATION IN 3-D PERSPECTIVE CARTOGRAPHIC APPROACH CARTOGRAPHIC DATA, DERIVATIVES, THEMATIC OVERLAYS AND APPLICATIONS DIGITAL CARTOGRAPHY OR GIS FOR RESOURCE MANAGEMENT AND MAPPING DIGITAL CARTOGRAPHIC SPECIFICATIONS FOR FOREST SURVEYS CARTOGRAPHY BY MAN VERSUS CARTOGRAPHY BY COMPUTERS DIGITAL CARTOGRAPHY: PERSPECTIVE OF THE GEOSCIENTIFIC COMMUNITY

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Paper No	Subject	Contents Of Syllabus
Paper - I	PHYSICAL GEOGRAPHY	DESERT AND TROPICAL LANDFORMS COASTAL FEATURES ENVIRONMENTAL CONTROLS DISPERSAL AND ADAPTATION MAJOR NATURAL ECOSYSTEMS PHYSICAL GEOGRAPHY AND MAN HUMAN IMPACT ON THE NATURAL ENVIRONMENT
Paper - II	GEOGRAPHY INFORMATION SYSTEM	GIS DATA QUALITY PLANNING A GIS IMPLEMENTING A GIS SELECTING A GIS FOUR LEADING GIS VENDOR'S PRODCUTS IN REVIEW. KEYS TO SUCCESSFUL GIS IMPLEMENTATION. A CASE STUDY IN GIS IMPLEMENTATIONS: CLINTON TOWNSHIP, MI. A CASE STUYDING GIS IMPLEMTATIONS PRINCE WILLIAM COUNTRY, VIRGINA. GIS ANAYLSIS
Paper - III	PRINCIPALS OF REMOTE SENSING	INITIAL DISPLAY ALTERNATIVES AND SCIENTIFIC VISUALISATION IMAGE PROCESSING: RADIOMETRIC AND GEOMETRIC CORRECTION MICROWAVE REMOTE SENSING SPECIFICATION OF FEW SATELLITE SYSTEMS

Paper -IV	SPATIAL DATABASE DESIGN	MANAGING WORK FLOW WITH VERSIONS GEODATABASE DESIGN GUIDE INTRODUCTION TO SPATIAL DATA BASE SYSTEMS
Paper - V	MODERN CARTOGRAPHY AND DIGITIZATION	IMAGE UNDERSTANDING TECHNIQUES FOR ONBOARD DIGITAL CARTOGRAPHY USE OF PHOTOGRAPHY FOR CREATING A CARTOGRAPHIC DATABASE RELEVANCE OF APPLICATION OF DIGITAL CARTOGRAPHY FOR DEVELOPMENTAL PLANNING PROCESS IN DEVELOPING NATION DIGITIZATION PROCESS UNVEILS SECRECY OF MAPS CARTOGRAPHY OF FOREST TYPE THEMATIC MAPS MODERN DIGITAL CARTOGRAPHY AND GEOGRAPHIC INFORMATION PROCESSING INTRODUCTION TO MAP INFO INTRODUCTION TO ARCVIEW COORDINATE SYSTEMS AND MAP PROJECTIONS

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Paper No	Subject	Contents Of Syllabus
Paper - I	MODELLING AND VISUALISATION OF SPATIAL DATA	GIS DATA REPRESENTATIONS. THE STRUCTURES OF GEOGRAPHY DATA. THE SHAPE OF FEATURES. LINEAR MODELLING WITH NETWORKS. CELL-BASED MODELLING WITH RASTERS
Paper - II	INTERNET BASED GIS / LAND USE PLANNING	INTERNET MAPPING : SERVING GEOGRAPHIC DATE ON THE WEB PUBLIC- ACCESS GIS DISASTER RESPONSE NETWORKS A GIS ON EVERY DESKTOP BUILDING AN INTERNET-BASED SPATIAL DATA LIBRARY NATIONAL REAL ESTATE FINDER BIOREGIONAL GEOGRAPHIC INFORMATION SERVER AIRPORT NOISE AND THE COMMUNITY
Paper - III	TOOLS FOR MAP ANALYSIS	IMAGE ENHANCEMENT THEMATIC INFORMATION EXTRACTION: IMAGE CLASSIFICATION
Paper -IV	RESOURCE MANAGEMENT USING GIS	MANAGING NATURAL RESOURCES. OIL AND GAS EXPLORATION AGRICULTURE DEFORESTATION. AIR POLLUTION MINING BORATE ORE Clean water RECLAIMING BROWNFIELDS

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Paper No	Subject	Contents Of Syllabus
Paper - I	MODELLING AND VISUALISATION OF SPATIAL DATA	SURFACE MODELLING WITH TUNS FINDING LOCATIONS STORING AND ORGANIZING GEOGRAPHIC INFORMATION GEOGRAPHIC DATA STRUCTURES
Paper - II	INTERNET BASED GIS / LAND USE PLANNING	SERVICE TECHNICIAN ROUTING HIGHWAY MANAGEMENT INFORMATION SYSTEMS INTERNET YELLOW PAGES SCIENTIFIC DATA PUBLISHING MAPS AND DATA SERVERS ONLINE GIS FOR LOCAL GOVERNMENT INTERNET, GIS AND INTERACTIVE DECISION MAPS
Paper - III	TOOLS FOR MAP ANALYSIS	DIGITAL CHANGE DETECTION INTRODUCTION TO METEOROLOGICAL SATELLITES
Paper -IV	RESOURCE MANAGEMENT USING GIS	COASTAL PROTECTION FOREST AND WILDFIRES ENDANGERED SPECIES. DISASTER PLANNING AND RECOVERY CONSERVATION IN CLASSROOMS. GIS DATA FOR NATURAL RESOURCE APPLICATIONS. VARIOUS APPLICATIONS OF REMOTE SENSING DATA