Atria Institute of Technology
Department of Civil Engineering

REMOTE SENSING AND GIS

18CV651

INTRODUCTION

Remote sensing is an art and science of obtaining information about an object or feature without physically coming in contact with that object or feature. Remote Sensing works with the principle of Electromagentic radiation detection. Different objects reflect or emit different amounts of energy in different bands of the electromagnetic spectrum.

A geographic information system (GIS) is a system designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data.

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PROFESSIONAL APPLICATION

- Research Engineer
- GIS Specialist
- GIS Developer
- GIS Administrator
- Aerial Surveyor
- Climate Study Expert

CONTENTS

- Remote Sensing
- Electromagnectic Sectrum
- Remote Sensing Platforms and Sensors
- Remote Sensing Platforms and Sensors
- Indian Satellites
- Digital Image Processing
- Geographic Information System
- Vector and Rastor Data Models
- Integrated Applications of Remote sensing and GIS

Remote Sensing and GIS is being used in various fields, such as Agriculture, Construction, Defence, Environmental Protection and Management, Research and Development and Disaster Management

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