

23CE711 : Ground Water Hydrology (PE-IV)

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NARSIMHA REDDY ENGINEERING COLLEGE
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Unit IV: Surface and Subsurface Investigation

Groundwater Investigation Methods

- Definition and concept of Groundwater Investigation Methods
- Important principles related to Groundwater Investigation Methods
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Surface Exploration

- Definition and concept of Surface Exploration
- Important principles related to Surface Exploration
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Electrical Resistivity Method

- Definition and concept of Electrical Resistivity Method
- Important principles related to Electrical Resistivity Method
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Resistivity Survey Procedure

- Definition and concept of Resistivity Survey Procedure
- Important principles related to Resistivity Survey Procedure
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Applications of Resistivity

- Definition and concept of Applications of Resistivity
- Important principles related to Applications of Resistivity
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Seismic Refraction Method

- Definition and concept of Seismic Refraction Method
- Important principles related to Seismic Refraction Method
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Seismic Survey Procedure

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Applications of Seismic Method

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- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Subsurface Investigation

- Definition and concept of Subsurface Investigation
- Important principles related to Subsurface Investigation
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Geophysical Logging

- Definition and concept of Geophysical Logging
- Important principles related to Geophysical Logging
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Types of Logs

- Definition and concept of Types of Logs
- Important principles related to Types of Logs
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Resistivity Logging

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- Important principles related to Resistivity Logging
- Engineering significance and applications
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Interpretation of Logs

- Definition and concept of Interpretation of Logs
- Important principles related to Interpretation of Logs
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Artificial Recharge Concept

- Definition and concept of Artificial Recharge Concept
- Important principles related to Artificial Recharge Concept
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Need for Artificial Recharge

- Definition and concept of Need for Artificial Recharge
- Important principles related to Need for Artificial Recharge
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Recharge Methods

- Definition and concept of Recharge Methods
- Important principles related to Recharge Methods
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

GIS Applications

- Definition and concept of GIS Applications
- Important principles related to GIS Applications
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Remote Sensing Applications

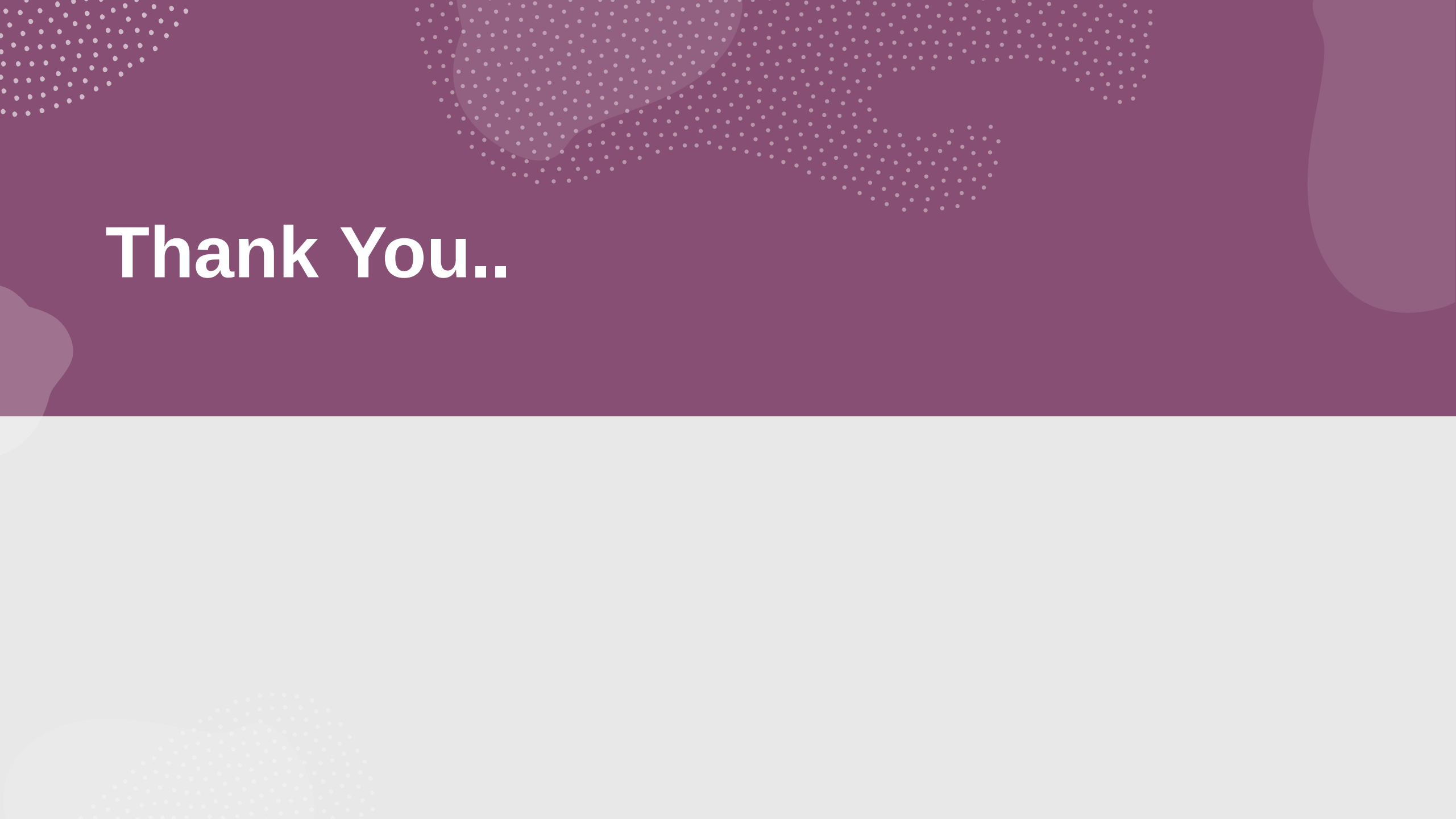
- Definition and concept of Remote Sensing Applications
- Important principles related to Remote Sensing Applications
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Case Studies

- Definition and concept of Case Studies
- Important principles related to Case Studies
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Summary

- Definition and concept of Summary
- Important principles related to Summary
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable



Thank You..