

ESC503 ENVIRONMENTAL REMOTE SENSING AND GIS I

UNIT SCHEDULE

BLOCK 1 INTRODUCTION TO REMOTE SENSING

- Unit 1 Fundamental Concepts of Remote Sensing
- Unit 2 Energy Sources and Nature of EMR
- Unit 3 Atmospheric Interactions with Electromagnetic Radiation
- Unit 4 Energy Interactions with Earth Surface Materials

BLOCK 2 REMOTE SENSING PLATFORMS AND SENSORS

- Unit 5 Satellite Orbits and Instrumentation
- Unit 6 Satellite Systems Parameters
- Unit 7 Sensor Parameters
- Unit 8 Resolution of Remotely Sensed Data

BLOCK 3 REMOTE SENSING DATA ANALYSIS

- Unit 9 Visual Image Interpret
- Unit 10 Digital Data Formats and Data Processing
- Unit 11 Digital Image Interpretation
- Unit 12 Digital Image Classification