COURSE DETAIL

INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Country
Ghana

Host Institution
University of Ghana, Legon

Program(s)
University of Ghana

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Geography

UCEAP Course Number
111

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

UCEAP Transcript Title
GEOGRAPHIC INFO SYS

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

The course deals with photographic and scanner remote sensing; basic principles of remote sensing; electromagnetic spectrum; the multiband concept of imagery interpretation; photographic remote sensing and its application in urban and rural land use studies. It also reviews the definition and types of remote sensing; a historical review of the development of environmental remote sensing, the physical basis of remote sensing (the electromagnetic spectrum), aerial photographs, characteristics, types, flying for cover and types, scale, overlaps, stereo-vision, relief displacement; photo evaluation (photo reading, analysis and interpretation); principles of object recognition: shape, size, texture; project procedure (including library search, reconnaissance survey, fieldwork, analysis and recording); application in urban and rural inventories; and principles of Geographic Information Systems.

Language(s) of Instruction
English

Host Institution Course Number
GEOG 327

Host Institution Course Title
INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Host Institution Course Details
https://www.ug.edu.gh/sites/default/files/manual_uploads/Humanities%20Handbook%...

Host Institution Campus
University of Ghana

Host Institution Faculty

Social Science

Host Institution Degree

Host Institution Department
Geography and Resource Development

Course Last Reviewed
2024-2025

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