COURSE DETAIL

BUILDING SMART CITIES WITH GIS
Country Hong Kong
Host Institution University of Hong Kong
Program(s) Chinese University of Hong Kong,University of Hong Kong
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Geography Computer Science
UCEAP Course Number 121
UCEAP Course Suffix
UCEAP Official Title BUILDING SMART CITIES WITH GIS
UCEAP Transcript Title BUILDING CITY: GIS
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

This course examines the importance of GIS to building smart cities and the ways in which the technology can be integrated with other ICT in order to support different aspects in urban development. It covers an introduction to smart city and its components; geospatial open data and common spatial data infrastructure; enabling technologies for smart city; delivering smart cities through a geospatial strategy; GIS basics; working with ArcGIS online; using web GIS and geospatial cloud in smart city applications delivery; using 3D GIS in smart city planning and development; using mobile GIS in smart city data collection and public engagement; handling real-time geospatial data for smart city parameters monitoring; applying spatial analytics to solve spatial problems and predictive analysis in smart city planning.

Language(s) of Instruction
English

Host Institution Course Number
GEOG2147

Host Institution Course Title
BUILDING SMART CITIES WITH GIS

Host Institution Course Details
https://moodle.hku.hk/course/view.php?id=97569

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Georgraphy

Course Last Reviewed
2022-2023

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