

《城市数据可视化与计算》课程教学大纲

英文课程名称: Urban Data Visualizing and Analytics (U.D.V.A)

课程编号: 020505

授课语言: 英文

学 分: 1

UDVA will be a method course in the data and method curriculum of the planning department, including urban data visualization and analysis techniques, and applying them to urban planning. The course will be designed based on students' abilities and interests, covering urban data classification, acquisition, visualization, regression analysis, application cases in urban planning, as well as the latest frontier introductions. This course is suitable for senior undergraduate and master students, requiring students to have a background in GIS operations, but not requiring students to have programming or statistics foundation (but programming and statistics foundation will be beneficial for learning this course).

2023 Syllabus

课程周 Week	日期 Date	内容 Contents	任务 Tasks
第一周 Week 1	2.23	介绍课程安排、可视化 Introduction、Visualization	
第二周 Week 2	3.2	Data analytics 数据分析	布置作业 Assignment
第三周 Week 3	3.9	TABLEAU入门	提交作业 Assignment submission
第四周 Week 4	3.16	城市大数据Urban Big data	课程项目安排与分组 Group assisment
第五周 Week 5	3.23	编程入门 Intro. To programming	项目提案Proposal submission
第六周 Week 6	3.30	编程入门 Intro. To programming	
第七周 Week 7	4.6	嘉宾讲座 Guest speaking	项目中期成果 Mid-project presentation
第八周 Week 8	4.13	城市智能规划前沿 Frontiers of Intelligent planning	
第九周 Week 9	4.20	课程作业汇报 Presentation	课程作业汇报 Project Presentation

Grading

Deliverable Detail	Points
Class Participation	20
Assignment	30
Group Project (Proposal + Presentation + Final Paper)	50
Total Points	100