

Smart Cities

Code: MK5TEL4S4TX17-EN

ECTS Credit Points: 4

Evaluation: exam

Year, Semester: 1st year, 2nd semester

Its prerequisite(s): -

Further courses are built on it: No

Number of teaching hours/week (lecture + practice): 3 + 0

Topics:

Administration: Municipality, Budget, Taxes. Transportation and Infrastructure: Information Technology, Planning and Development, Public Transit and Light Rail, Street Transportation, Roads, Bicycle Transit Systems. Community Services: Housing, Human Services, Library, Neighbourhood Services, Parks and Recreation, Education, Arts & Culture. Economic Development: Aviation, Community and Economic Development. Environment / Sustainability: Environmental Programs, Public Works, Water Services/Water Strategy, Sustainability, Greenfields. Public Safety: Emergency Management, Fire, Police, Human Resources, Law.

Literature:

Required:

- Robert H. Clarke, 1996. Public Works: Engineering in Local Government. Thomas Telford, London.
- K. Wellman, Marcus Spiller, 2012. Urban Infrastructure: Finance and Management. John Wiley & Sons, Hoboken, New Jersey.

Recommended:

- Genevieve Giuliano, Susan Hanson, 2017. The Geography of Urban Transportation, Fourth Edition. Guilford Publications, New York – London.

Schedule**1st week Registration week****2nd week:**

Lecture: Administration: Municipality, Budget, Taxes.

3rd week:

Lecture: Transportation and Infrastructure: Information Technology, Planning and Development, Public Transit and Light Rail, Street Transportation, Roads, Bicycle Transit Systems. Part I

4th week:

Lecture: Transportation and Infrastructure: Information Technology, Planning and Development, Public Transit and Light Rail, Street Transportation, Roads, Bicycle Transit Systems. Part II

5th week:

Lecture: Community Services: Housing, Human Services, Library, Neighbourhood Services, Parks and Recreation, Education, Arts & Culture. Part I

6th week:

Lecture: Community Services: Housing, Human Services, Library, Neighbourhood Services, Parks and Recreation, Education, Arts & Culture. Part II

7th week:

Lecture: Economic Development: Aviation, Community and Economic Development. Part I

8th week: 1st drawing week**9th week:**

Lecture: Economic Development: Aviation, Community and Economic Development. Part II

11th week:

Lecture: Environment / Sustainability: Environmental Programs, Public Works, Water Services/Water Strategy, Sustainability, Greenfields. Part II

13th week:

Lecture: Case studies. Part I

15th week: 2nd drawing week**10th week:**

Lecture: Environment / Sustainability: Environmental Programs, Public Works, Water Services/Water Strategy, Sustainability, Greenfields. Part I

12th week:

Lecture: Public Safety: Emergency Management, Fire, Police, Human Resources, Law.

14th week:

Lecture: Case studies. Part II

Requirements**A, for a signature:**

Participation at lectures is compulsory. Students have to attend lectures and may not miss more than three of them during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. Attendance at lectures will be recorded by the lecturer. Being late is equivalent with an absence. In case of further absences, a medical certification needs to be presented. Missed lectures must be made up for at a later date, being discussed with the tutor.

B, for a grade:

An oral exam has to be taken in order to get a grade.