



NAAB International Certification

Appendix 1: Template for Course Descriptions [limit 1 page per course]

Number & Title of Course (total credits awarded):

TECH405 - Infrastructures and Urban Networks (Urb) - Semester 7 - ECTS 6 - Cicle/Profile: 2nd. Cycle/Urb.+Terr.
- Scientific Area: TAUD-Technologies of Architecture, Urbanism and Design

Course Description (limit 25 words)

Knowledge of concepts, strategies, and methodologies applicable to the multidisciplinary nature of urban infrastructures and networks in the city

Course Goals & Objectives (list):

Analysis of the function of each network (water distribution, electricity, ICT, intelligent traffic control, gas distribution, urban solid waste) and its contribution to the overall functioning of the city
Alternatives for each network and their adequacy to the city
Integrate and coordinate urban infrastructure networks integration within a current urban area or in a new development site in the city
The function of each network and its contribution to the overall functioning of the city
Understanding the urban infrastructure networks within a view of codes and standards

Student Performance Criterion addressed (list number and title):

Primary - A.5 Ordering Systems; A.8 Cultural Diversity and Social Equity; Secondary - B.3 Codes and Regulations; B.4 Technical Documentation;

Topical Outline (include percentage of time in course spent in each subject area):

Lecturing □ 25%
Construction Site Visits - 10%
Studio Work / Tutoring □ 30%
Critics □ 10%
Design independent work □ 25%

Prerequisites:

It does not have; It does not have; It does not have;

Textbooks/Learning Resources:

AA.VV. Network Infrastructure and the Urban Environment. Advances in Spatial Systems Modelling. 2011
Camara Municipal de Lisboa. Manual de Espaço Público □ Lisboa, O Desenho da Rua. 2017
Matos, J. Wastewater Engineering, Treatment Disposal and Reuse. 2000
Moss, T.; Guy, S.; Marvin, S. Urban Infrastructure in Transition Networks, Buildings and Plans. 2000
Graham, S.; Marvin, S. Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition. 2001

Offered (semester and year):

4nd Year - Fall;

Faculty assigned (list all faculty assigned during the two academic years prior to the visit):

Francisco Manuel Camarinhas Serdoura; Francisco Manuel Camarinhas Serdoura; Francisco Manuel Camarinhas Serdoura;