

## **Guideline for the DESIGN Master thesis**

### **DRAFT**

#### **0. Introduction of the topic**

Abstract:        Presentation of the task and planning goals  
                      Spatial and functional program if available  
                      Site and location presentation

Further procedure:

#### **1. ANALYSIS**

- Literature review on building typology - at least 5 examples/sources
- Literature review on the vision statement / planning objectives  
(e.g. sustainable building, energy efficiency) - at least 5 examples/sources
- Research of the necessary modelling or simulation tools/methods  
(e.g. simulation tools, certificates, life cycle assessment etc.)
- Case Study – built examples  
Analysis and documentation of at least 2 projects

#### **3. Concept:**

Vision statement (central idea, main goals)

Criteria catalog for design - definition of planning goals (e.g. resources efficiency, energy efficiency etc. plus key figures)

#### **Space and functional program**

Preparation of the building sheet with details:

- GFA/GV;

- Type of use - e.g.: mixed use office, hospitality, residential
- Functional units e.g.: 5 residential units a 80 m<sup>2</sup>
- Construction type
- Main materials

#### 4. Location analysis: macro and micro

MACRO: Relevance of the site at the regional level

(demographic, economic, infrastructure)

Urbanism - location in the city, accessibility by public transport, private transport, infrastructure etc.

MICRO: Site plan

- Traffic analysis: publice / private traffic, pedestrian paths, bicycle paths, delivery
- Economic factors: Major facilities nearby (schools, shopping), leisure activities
- Geographic-climatic factors: orientation, topology, micro-climate, wind...
- Legal framework: Dedication, building class, building density, buildability, restrictions

#### 5. Plans:

Floor plans 1:200

Sub-areas 1:100/50

Sections 1:200

Detailed section 1:20

Views 1:200

**Visualization /Axo/Perspective**

Functional diagrams/communication flow/traffic flow

**6. Calculations/Simulations:**

If project development - project development calculation

Cost estimation ÖNORM 1801-1

If Sustainability Assessment

e.g. Energy certificate (Archiphysik usw.)

e.g. Life cycle Assessment (ÖGNI, DGNB, klima aktiv Methods)