CREDIT #03 PRESENTATION CRITIQUE

# School of Architecture Entrance Building

The present critique is related to the Assignment #03 presentation. It is provided to give you a useful support to correct and complete your final report.

On average, results are fine. Some of them are very good showing that what was discussed in classroom and the contents of the guides have been gathered and transposed. I am therefore satisfied. Instead, part of the work requires much work that we can do in the coming weeks before the exam..

Here are some remarks on some communal aspects that need corrections and improvements.

## S.01. The Place. Site Analysis and Environment Assessment

1. A better integration with the outputs coming form the architectural teaching module is required

## S.02 The Program Project Goals, Space Program, and Budgeting

2. A better integration with the outputs coming form the architectural teaching module and case studies references are required.
3. Criteria by which the functional areas have been defined and dimensioned are still weak and poorly documented
4. In very few works is possible to read in which way parametric costs have been determined. Please, show references and write down some considerations about assumed costs. It would also be desirable that you manage to define different categories of costs (low, medium, high) for different types of value.
5. Do NOT include here any drawings or data from the project. These drawings belong to the detailed phase. For the same reason any comparisons between the program phase and the project phase have to be moved in the final sheet (Sheet 11. Cost Estimation and Project Assessment)
6. Group rooms by departments and calculate totals and subtotals

## S.03. Internal Cover. The virtual model

7. This sheet is not to collect a generic list of codes or a list of families and types. Students are asked to collect here all the codes and item descriptions used in each sheets. So every time materials and building components are used copy and past their codes, descriptions and cost here.
8. Following the document Information Management. How to draw (download it from the course website), insert here all the graphic symbols and conventions used in your drawings.

## 04. Site preparation and Ground work

9. For demolitions, excavations, and backfills pay attention to the cost list specification in Prezzario Regione Toscana because in most of the case you need to include transportation. Only demolition of existent walls can be reused for backfill or crawlspace, so in this case all the demolition or part of them can be estimated without the removal from the construction site.
10. For building placement remember that you need to display only the coordination grid. You also need to trace triangles from the principal

axes of the grid in relationship to some cornerstones, and don't forget to put measurements of these triangles.

05. Foundations

11. In many files there are no measurements of sections and main dimensioning. Please integrate your drawings
12. In some cases there are any identifications of foundation types used. Put codes or use colors to locate which kind of foundations you used and selected from the cost list.
13. Do NOT put structure and foundation together. If you want to use the same 3D model print out highlight the foundation using colors or give a transparency to the structure
14. 14. Coherently ground floor has to be moved to the sheet reserved for slab, especially if you use a real slab. Ground floor can be described in this sheet if you choose in situ reinforced concrete slab on gravel or with ventilated cavity such as in some products like iglu'.
15. 15. For reinforced concrete and how to manage its description, calculation and cost estimation refer to the assignment guide new edition (download the third edition from the course web page)

06. Structure

16. Same observations (11.12.13.15) noted on foundations
17. Remember the structural box of the lift needs the front side opened. Consequently do NOT put structural walls on the front side. The front side will be closed with gypsum or other non structural walls as the elevator is inside

07. Slabs

18. Same observations (11.12.13.15) noted on foundations
19. In some cases technical specifications (pictures, drawings and details from manufactures) are missed
20. Pay attention because slabs, if it is not in situ reinforced concrete type, are estimated by sqm, not by cbm!
21. In most of the slab types costs of screeds are included. Do NOT consider them in cost estimation. Just represent but do not calculate them. You need to calculate screed only if its thickness exceeds the normal included size of 3cm/5 cm (it depends from the types). Check on the description of cost list to get the included thickness. For the exceeding thickness apply cost of concrete + steel weldmesh
22. Remember that each shaft or large holes on the slab need structural reinforcements along the perimeter
23. If you choose a technical solution not included on the cost list, you must create your own code in accordance with the adopted costs list hierarchy, and add a short description of this new item

08. Interior not bearing walls

24. Same observations (11.12.13.15) noted on foundations
25. Do NOT include external and/or structural walls in this sheet: only partition walls!
26. Partition walls cannot be realized with reinforced concrete, and especially of 8 cm or 10 cm
27. Even transparent partition walls (glass) should be included in this sheet
28. Place in each wall description BIM type section and its list of component material
29. Include pictures, specification, and technical details from selected manufacturing
30. If you choose a technical solution not included on the cost list, you must create your own code in accordance with the adopted costs list hierarchy, and add a short description of the new item.

09. Rooms and indoor finishing

31. Use as much as you can room scheduling and extract surface and perimeter in order to estimate pavements + screeds + eventual interposed layers; ceilings; base walls (skirtings)
32. Wall finishing should be calculated with not bearing walls in order to simplify estimation
33. Put in each room the room label with ID number and functional description. All other specifications have to go in the schedule.
34. Do NOT use this sheet as a functional description. This information has to go in the last sheet
35. In some cases technical specifications (pic-

tures, drawings and details from manufactures) are missed

36. If you choose a technical solution not included on the cost list, you must create your own code in accordance with the adopted costs list hierarchy, and add a short description of the new item.

## 10. Stairs – Detail

37. Nobody has provided a serious detailed drawings. For detailed drawings you must use appropriate scale of representation (1:25, 1:20, 1:10, 1:5) showing materials and adopted component materials.
38. Use key drawing and detailed drawings coordinated through consistent call out. For some examples, please, refer to the document Information Management. How to draw (download it from the course website).

## 11. Cost Estimation and Project Assessment

39. There is a lot of confusion and very poor elements to discuss. Please read carefully the Assignment Guide 03 new edition and try to do your best.

***FOR INDIVIDUAL EVALUATION CHECK THE GRADE FILE OUT.***
(Individual grade includes the partecipation to the collective analysis as well)