



ABSTRACT:

Grid & modular concept provides practical & effective solutions for many of encountered methodological problems which are facing architectural design curriculums & its professional practice. Hence, research supports the architect in his design of complex formations, academically through architecture school students & professionally through practitioner designers. Research is achieving this by extracting an initial system containing a theoretical structure & practical tool for modular grid use. research will also document its conceptual references through registration of all related concepts of grids & modular design methods & formation systems, historically & modern, & pick suitable ones to reach an initial & coordinated relations to build research hypotheses, & then try to prove it in order to activate it through research vision. Research questionnaires will monitor the local situation academically & professionally, & record degrees of conceptual awareness of modular grids, then analyze it & clarify its indicators & link it with its modular grid design problems & its negatives & shortages, in a form of directing conclusions for initial theoretical structure & primary methodological tool, & prepare a simplified design exercise for experimentation & testing for measuring efficiency & interaction range of architecture students & architectural designers with its stages and steps. Finally research will extract its conceptual definitions & then submit its final framing for the theoretical structure of modular grid concepts & its applicable research tool, which are aiming to clarify & support theoretical handling & applicable use.

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(Orthogonal Cartesian)

(Grid Compositions)

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(Graph paper)

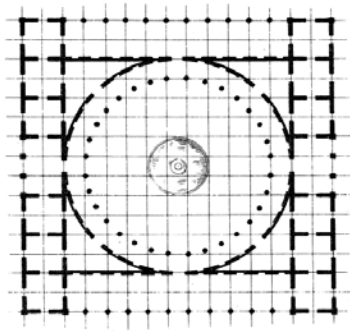
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(Coordinates Paper) ()

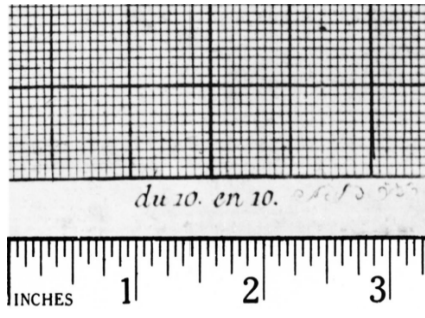
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(Modular System)

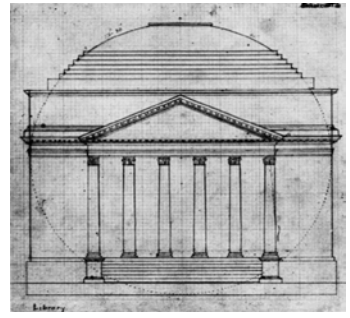
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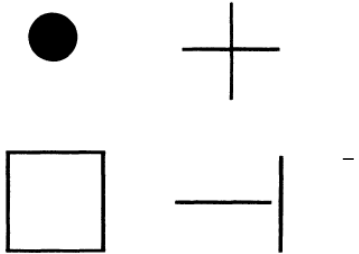
(Point Base)

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(Field Base)

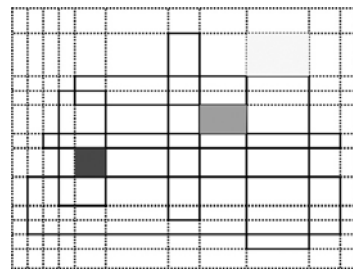
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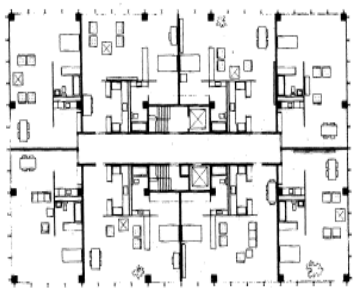
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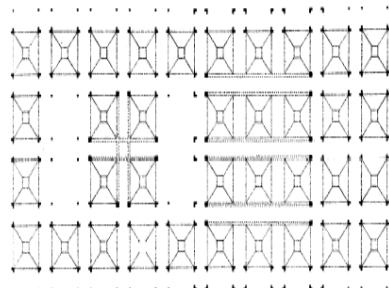
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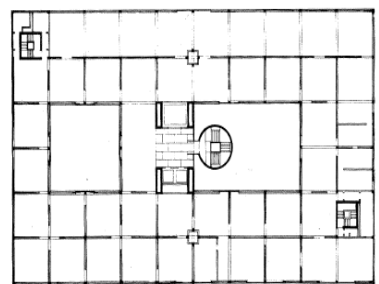
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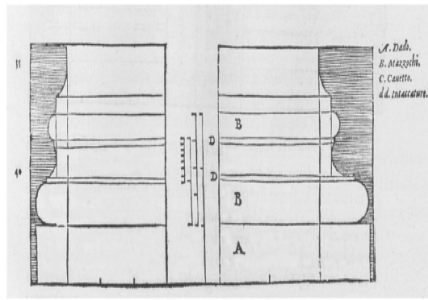
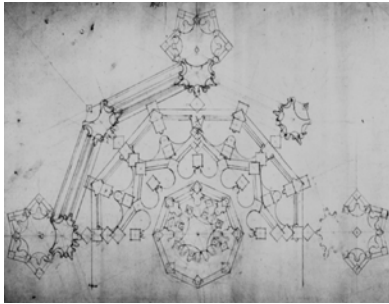
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(Module)
(System)

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[] (Dimensional Coordination)

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(Modular System)

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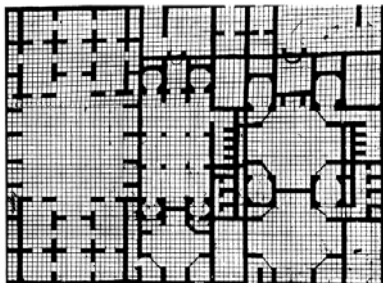
(Submodules)

(Additions)
(Modular Grids)

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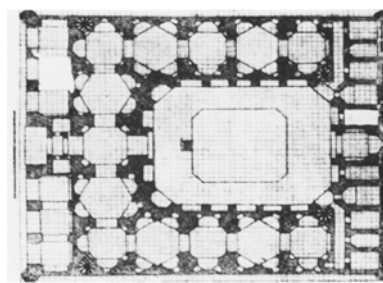
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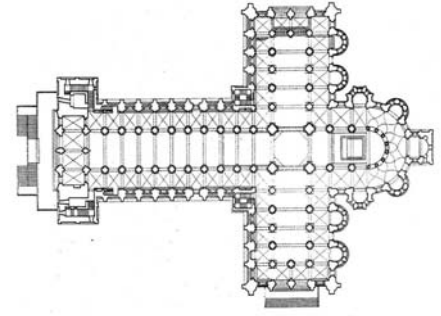
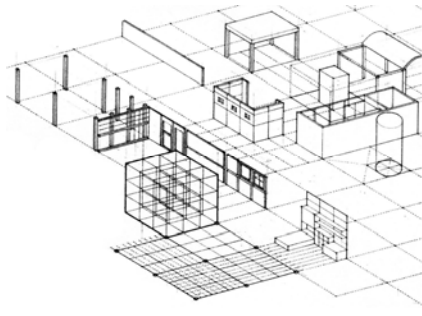
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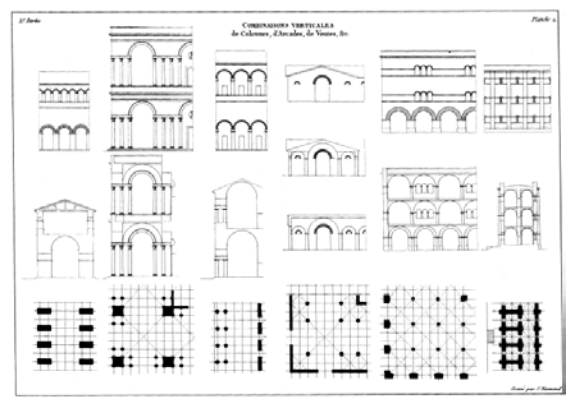
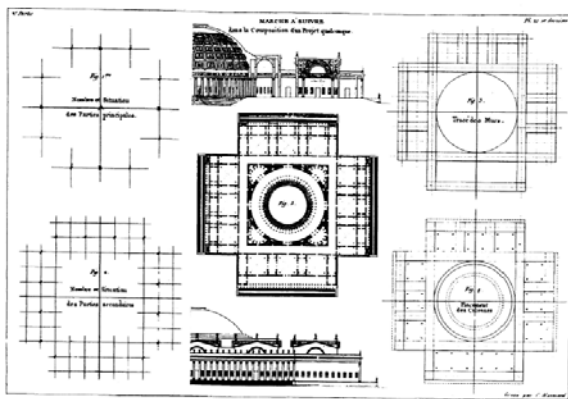
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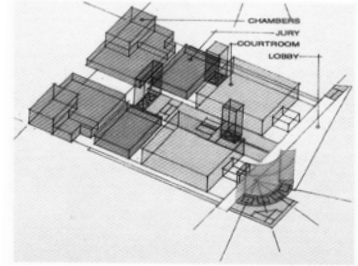
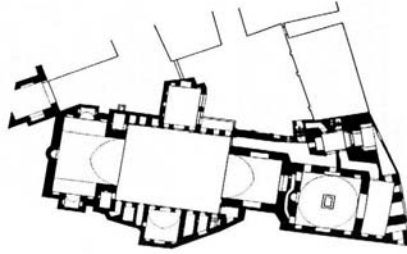
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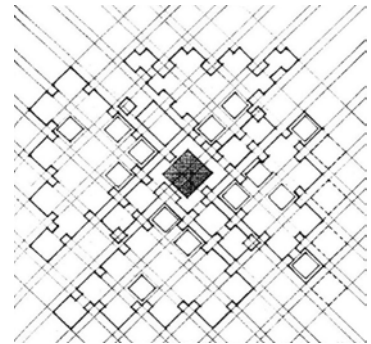
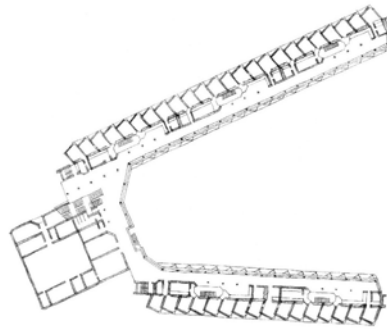
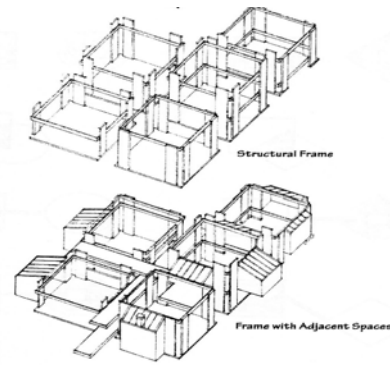
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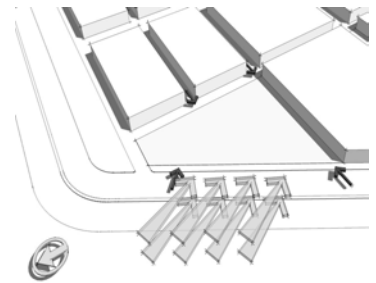
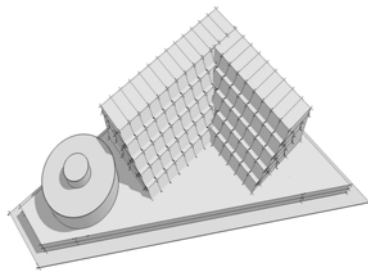
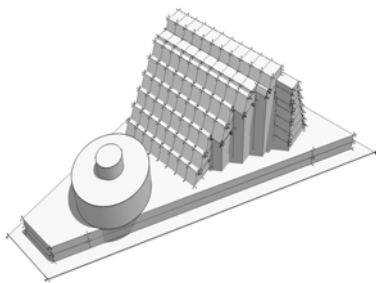
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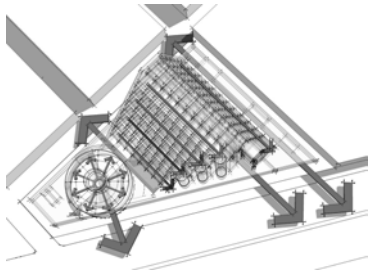
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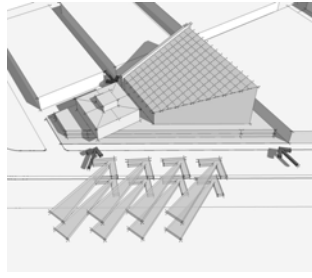
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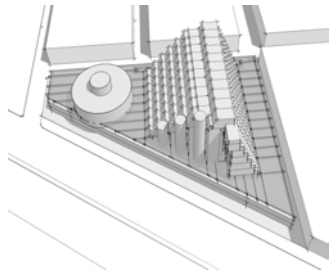


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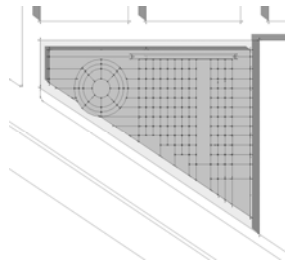


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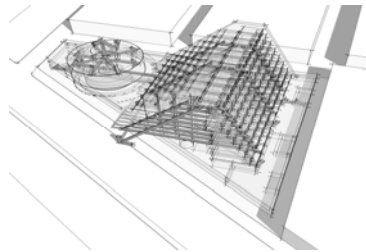


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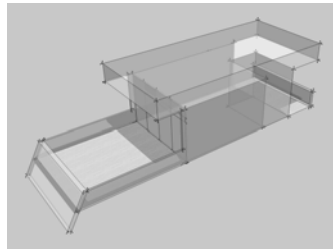


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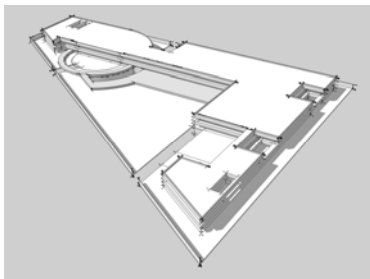


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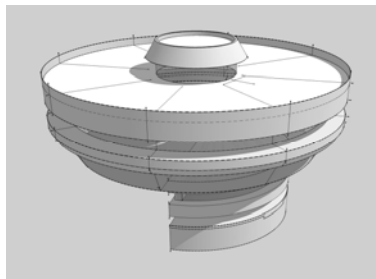


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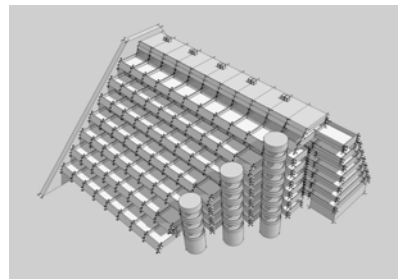
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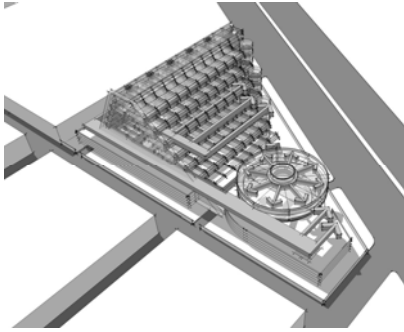


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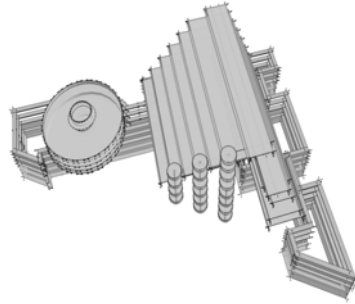
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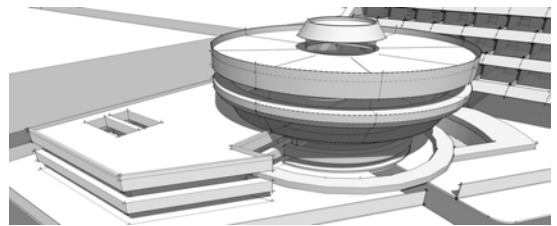


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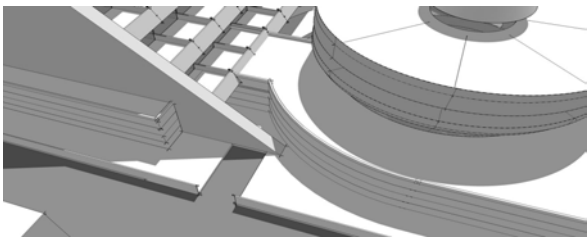
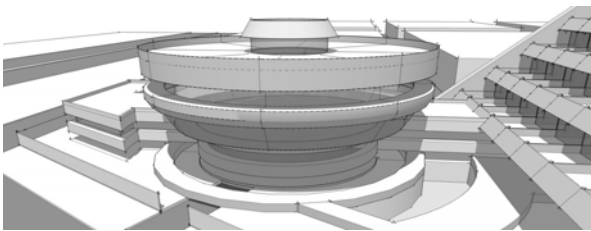
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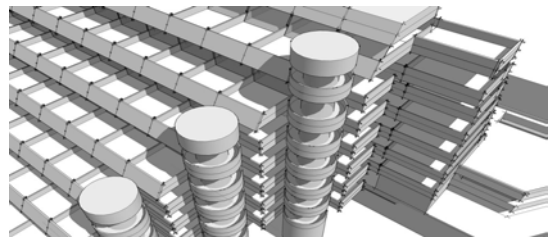
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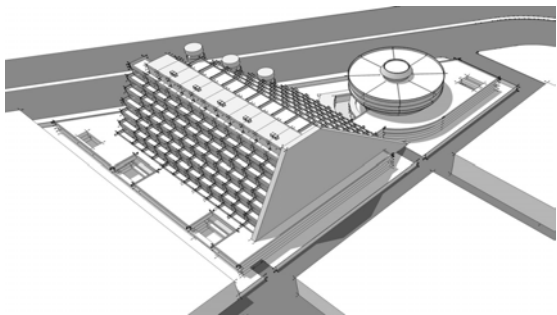


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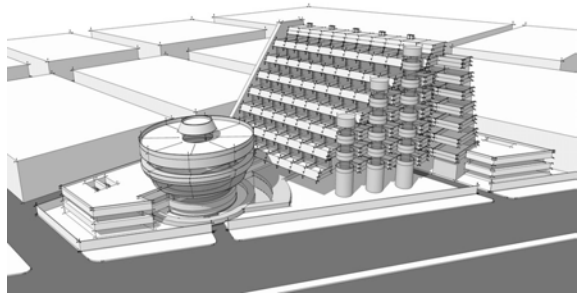
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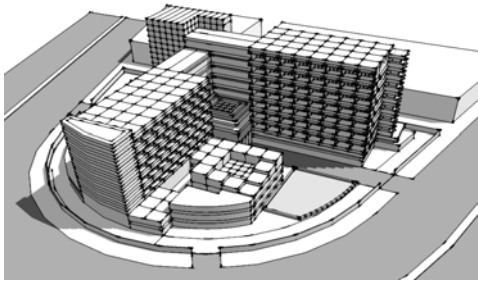


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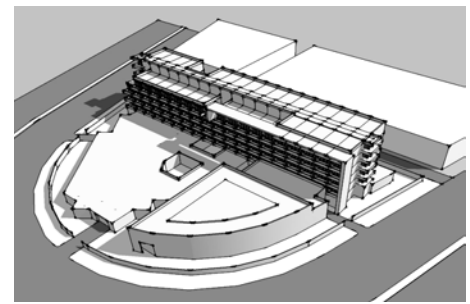
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