GUJARAT TECHNOLOGICAL UNIVERSITY
BRANCH NAME: B. Arch
SUBJECT NAME: Thesis
SUBJECT CODE: 2X105001
5th Year: Semester-X

Teaching and Assessment Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks	University Exam Type
Field work	Lectures	Studio	C	Theory Marks		Practical Marks		100	Theory Exam
8	6	12	26	ESE (E)	PA (M)	ESE(V)	PA (I)		
				00	00	40	60		

Pre requisite: In order to achieve the course outcomes, students are expected to draw upon, and synthesize, the wide range of knowledge, methods, and approaches that they have been exposed to over the course of their university studies.

Rationale: Thesis studio is intended to allow students to delve into the depths of an inquiry through research, exploration and design development that establishes the strength of their inquiry, as a final challenge to Design, this semester entails formulating a design inquiry as a part of the Design Thesis Studio- Architectural design thesis.

Content:
The multiple challenges of 'built environment' offer unlimited scope for the choice of an architectural design thesis. The selection of the thesis subject may result either from issue/s involved, or from the challenges of design or the inherent and acquired aptitude of a student, which he/she wishes to perfect and present.

The variety of the intentions give students the choice to select the topic of the thesis from a purely hypothetical to a'live' programme, as long as the topic can result in tangible 'built environment' solution.

Consequently, the size of the project has no relevance in the selection of the topic; the riding clause being the topic's relevance to serve the laid down specific objectives inherent in the philosophy of the institution

For reasons of maintenance of uniformity in results and standards, the thesis presentation shall be in two distinct compartments: a report comprising of all the preliminary studies required for the thesis topic, and the final design solution.

Through individually determined project scopes, programs and methods, the student is expected, through design to meet the following learning objectives:

- Develop an ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.
- Develop an ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into Architecture/ design projects.
- Develop an ability to prepare a comprehensive program for an architectural project that includes: an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions including existing buildings; and an assessment of their implications for the project.
- Develop an ability to demonstrate the skills associated with making integrated decisions across multiple systems and variables in the completion of a design project.

This includes problem identification, setting evaluative criteria, analyzing solutions, and predicting the effectiveness of implementation

***: indicative**

Notes:

1. At the end of the semester, each student is expected to submit all original drawings or research report prepared as per the department's specifications, three copies of the report in the specified format and a modern should be submitted to the department after obtaining the approval of the respective guide/adviser. The department shall schedule the final viva-voce, at its convenience, only after the thesis submission by a student.
2. Student is expected to resolve design project in totality encompassing all the aspects of building design such as Structure, Climatic orientation, Behavioral aspects, services, building material and technology

References: * (Can be based on Students individual research and Thesis topics)

1. Whyte, William H. *The Social Life of Small Urban Spaces*. Washington D.C.: Conservation Foundation, 1980.
2. Alexander, C. (1987) *A New Theory of Urban Design*
3. Jane Jacobs, *the Death and Life of Great American Cities* (New York: Random House, 1961), *55*.
4. Jacobs, A. B. (1993). *Great streets*. Cambridge, MA: MIT Press.
5. Appleyard, D. (1981). *Livable streets*. Berkeley: University of California Press.
6. Lynch K, 1960 *The Image of the City* (Cambridge, Mass: MIT Press)
7. Lynch k, Good city form(Cambridge, Mass:MIT Press)
8. Goden Cullen, *the concise townscape*.
9. Rob krier, *urban space*
10. Bernard tshumi, *Manhattan transcript*
11. Deeependra Prasad, *New architecture and urbanism,*
12. John Lang, Architecture and Independence
13. Bill Hiller, *Social logic of space*
14. Paul D. Speriregon Architecture of town and cities, The MIT press
15. jan gehl , Life between buildings: using public space
16. ian geh,l Cities for people
17. Christopher Alexander, Public spaces public lifePattern language
18. *The City of Tomorrow and its Planning* by F. Etchells, London, Architectural Press, 1929,
19. Lewis mumford – city in history
20. Rapoport, amos history and precedent in environmental design
21. Rapoport, amos the meaning of built environment.
22. Watson D. et al (ed), Time saver standards of urban design, McGraw Hill,2003

List of Projects/Assignments*:

Lectures/Tutorial work shall consist of presentations on various topics of the subject. AV projects may be introduced to students for documenting best practices and advances through case studies. A group discussion or forum may be organized for discussion on various aspects of the subject.

*- this is suggestive for common purpose. Faculty may decide on this, considering student group and institution philosophy.