



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Syllabus for Diploma of Vocation (D.Voc.), 6<sup>th</sup> Semester**  
**Branch: Architectural Assistantship**  
**Subject Name: Design Studio – VI (Working Drawing)**  
**Subject Code: 1260605**

**Type of course:** Core

**Prerequisite:** Previous semester small scale work having basic level of space planning to prepare working drawing.

**Rationale:** Architectural Detailing and Execution Drawings. Execution drawing systems and methods. Trade literature, detailing methods, architectural working drawing. Choice of materials, fixtures, fittings, availability and constructional feasibility. Integration of building systems and services. Detailed drawings to include all components of building like doors, windows, lifts, staircases, elevators etc.

**Teaching and Examination Scheme:**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical		
				ESE (E)	PA(M)	ESE (V)	PA (I)	
0	0	2	2	0	0	30	20	50

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

**Content:**

Sr. No.	Content	Total Hrs.	Module % Weightage
1	<p><b>Design development and its finalization for working drawings</b></p> <p>Select a building unit(s) from previous semester's housing design project or select any given building unit for preparing a complete set of working drawings.</p> <p>Develop the design of the selected / given building unit with respect to materials of construction and finishes.</p> <p>Finalize the structure of the building – wall thickness in case of load bearing structure and approximate column locations and their sizes in case of frame structure.</p> <p>Draw all the drawings to any convenient scale.</p>	6	20
2	<p><b>Preparation of site layout with necessary details</b></p> <p>Draw the site layout to a scale of 1:200 or any appropriate scale – site layout includes building units, roads and landscaped areas drawn clearly without rendering.</p> <p>Prepare a detailed layout plan showing all units and mark unit selected for working drawing separately – Draw essential site details like compound wall section, any one landscape / hard paving detail.</p> <p>Construction drawings of previous semester design projects (anyone building) – Floor plans, Sections, Elevations</p>	6	20
3	<p><b>Preparation of all basic drawings</b></p> <p>Draw plans at all level – foundation plan, grid plan, all floor plans, terrace plan</p>	6	20



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	<p>Draw all elevations – all four sides elevation          Draw all sections minimum 2 sections – section from staircase and toilet.          Develop all the basic joints with all necessary dimensions, level, material, finishes, specification and notes.          Cross check all plans, elevations and sections for any missing architectural element or detail and rectify the same if necessary.          Draw all the above drawings in a standard drawing format.</p> <p>Working drawing details of basic elements of the unit to be done – door, window, staircase, Electrical, Plumbing</p>		
<b>4</b>	<p><b>Preparation of all detail drawings</b></p> <p>Draw all the detail drawings in a standard drawing format covering at least door – window schedule and details, toilet details, staircase details, flooring and electrical details.          All the detail drawings should be drawn to a scale of 1:20 or 1:25. However some of the more intricate details should be drawn to an appropriate enlarged scale.          Write specifications, notes and instructions wherever necessary.          Specify the make, sizes and specifications of all materials, fixtures and finishes on the drawing.</p> <p><b>Drawing all working drawings on computer</b></p> <p>Draw all the basic drawings on manually of computer with the help of CAD software.          Document the Full set of working drawings for the project.</p>	10	40
	<b>Total</b>	28	100

**Reference Books:**

1. The Professional Practice of Architectural Working Drawings, Osamu A. Wakita, Nagy R. Bakhoun, Richard M. Linde, fifth edition
2. Working Drawings Handbook, Keith Styles and Andrews Bichard, fourth Edition
3. Building Construction, W.B.Mckay. (All Volumes) Khanna Publisher, New Delhi
4. Construction of Buildings (All volumes), Barry
5. Time saver standards for building, Watson

**Course Outcomes:**

Sr No	CO Statement	Marks % weightage
CO-1	To design and develop plan for given buildings specification and its finalization for working drawings.	20
CO-2	To prepare site layout with necessary details for given buildings specification.	20
CO-3	To prepare all basic drawings for given building specification	20
CO-4	To understand the process of compilation of full set of working drawing.	40



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**Laboratory work:**

Visit to practicing architect / architectural firm.

Various site visits (ongoing and completed)

Visit to architectural material, finishes and fixtures vending stores / shops / showrooms.

**List of Open-Source Software/learning website:**

Students must refer to following sites to enhance their learning ability.

1. [www.archnet.org](http://www.archnet.org)
2. [www.greatbuildings.com](http://www.greatbuildings.com)
3. Websites of architectural product manufacturers e.g. sanitary wares manufacturers, door-window manufacturers, flooring material manufacturers and traders.