

**BACHELOR OF INTERIOR DESIGN**  
**Veer Narmad South Gujarat University, Surat.**

**B.ID. II; Semester III:**

**INTERIOR SERVICES I (Electricity / Plumbing)**

Sub 1	Code No. 2	Teaching Scheme (Contact Hours)			Examination Scheme (MARKS)					Grand Total / Min <sup>m</sup> Passing 9+10	
					Internal (50%=10%+20%+20%)				External		
		Lecture 3	Studio 4	Total Credit 5	Internal / Attend (10%) 6	Contin. Eval. (20%) 7	Final Review (20%) 8 (Jury/Viva/ Test)	Total (50%) (6+7+8) 9	(50%)		
				Total 10	Min. Pass 11						
Interior Services I		2	-	2	10	20	20	50	50	50 / 40%	100 / 45%

**EMPHASIS: Electrification:** Light as theory and application to building design, especially major element in creating “Model” interior spaces.

**Plumbing / Drainage:** Knowledge of various products for lighting device available in market. Understanding of requirements of Building Services – water supply and drainage in design.

**CONTENT: Electrification:** Light and its sources, lighting criteria, day lighting, prediction method. Artificial lighting levels for various activities.

Electric layouts, science of wire distribution, control panels, switches, types of wiring, wiring for heating / cooling, ducting systems and conduits.

Switches, Light sources, Luminaries and fixtures available in market.

Project Drawings for residence, flats, commercial and institutional building.

**Plumbing:** Requirements of water supply to various buildings, sources of water, methods of conveyance of water, materials required for plumbing.

Water purification and its product availability in the market.

**Drainage: Refuse:** different forms of refuse garbage, soilage, toilet waste and storm – water and disposal system.

General principles of drainage, and drainage lines.

Connection to out-door drainage system, size requirements calculations, market survey of pipes and related materials.

Bathroom – Interior layouts, Market survey of products and economics, fixing and laying out of products with other finishing materials.

**☞ REFERENCES:**

1. Elements of public health engineering by Duggal
2. Text Book of sanitation by R.S. Deshpande
3. Text Book of sanitary engineering by S.R.Kshirsagar
4. National Plumbing Code (AWWA)
5. Water supply and drainage by Bhide
6. Time saver standardsfor architectural design data by Calalendar
7. Heating cooling, lighting by Norbert Lechner
8. Electrical wiring estimating and costing-Uppal