

## AR-506

CODE	SUBJECT	CREDITS
AR-506	BUILD.SERVICES-II	02
<b>FOCUS</b>		
	Electrical and mechanical services in building.	
<b>CONTENT</b>		
	<p><b>Electrical:</b> Distribution system in building – mains and sub distribution, switches and control, layout system for lighting fans, telephones, etc. implication in building construction.</p> <p><b>Fire protection:</b> Study of fire regulation, fire extinguishing system, warning system, fire resistance of different building materials, fire resistant doors, planning of building for fire escapes, case studies of building from fire protection requirements.</p> <p><b>Air conditioning system:</b> Different systems in current use from chilled water cooling system to air handling package units etc., their installation requirements and demands in building layouts. Supply air, return air ducting system their layout and requirements within building system, co -ordination to building system.</p> <p><b>Vertical transportation:</b> Lifts, grouping of lifts, return travel time, design of lift banks carrying capacity and travel time, installation requirements, escalators.</p>	
<b>METHODOLOGY</b>		
	Through class lectures, Presentations, site visits and case studies.	
<b>REFERENCES:</b>		
	<ol style="list-style-type: none"><li>1.Electrical Wiring, Estimating &amp; costing -S.L.Uppal</li><li>2.Building Technology &amp; Valuation-Tata Mc Graw Publication</li><li>3. Operation &amp; Maintenance of Electrical Equipment-B.V.S.Rao.</li></ol>	