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RGPV (DIPLOMA W BHOPAL			ING)		RRICULUM E COURSE	FORMAT- 3		Sheet No.1		
Branch		ARCHI	TECTU	RE AND INTERIOR DESIGN		Semester	FOURTH		TH	
Course Code 40		O2 Course Name BUILDING SE					RVICES			
Course Outcome1			The student will be able to suggest water supply system for a residential building.						Marks	
Learning Outcome1			The student will be able to calculate water requirement and storage capacity for a residence.					5	10	
Contents			Characteristics of potable water, per capita water consumption. Water storage tank dimensions and capacity, cast in situ and factory made plastic tanks							
Method of Assessment			Internal (Progressive)							
Learning Outcome 2		The student will be able to select appropriate water supply pipes, fittings and fixtures for a given building.					15	20		
Contents		Internal pipes for water supply (materials- GI,CPVC, sizes and pipe fittings) taps, showers, valves (Gate valve, Float valve, Ball valve), water meter; pressure pumps, their types, materials and brands								
Method of Assessment			External (Theory)							
Learning Outcome 3		The student will be able to prepare water supply pipe layout drawings for a given case.  15								
Contents		Preparation of water supply layout drawings in the form of plans and elevations.  Direct and Indirect water supply systems; Hot and cold-water supply within a building, Solar water heating								
Method o	of Asse	essment	Interna	al (Term Work)						
Course Outcome2		The student will be able to suggest drainage system for a given case					each Hrs	Marks		
Learning Outcome 1			The student will be able to select appropriate drainage pipes, fittings and fixtures for a given building.					20	30	
(	Conten	ts	Principles of sanitation, Principles of house drainage system Type of Traps according to their shapes and functions; Inspection chamber Internal waste disposal pipes, types and materials-PVC, fittings and joints. Sanitary fixtures: Types, materials and sizes of water closet, wash basin, bathtub, sink, urinals Systems of plumbing in house drainage: One pipe system, two pipe system. Septic tank: Utility, working of septic tank. Plan and Section of septic tank							
Method	of Ass	essment	Extern	nal (Theory)						

Learning Outcome 2	The student will be able to Prepare house drainage plan for a given residential building.	15	10				
Contents	Preparation of layout plans for toilets and drainage layout of form of plans for a single story one BHK residence	drawings	in the				
Method of Assessment	Internal (Progressive)						
Course Outcome 3	The student will be able to suggest rain water harvesting for a residence.	Teach Hrs	Marks				
Learning Outcome 1	The student will be able to identify components of rain water harvesting system	10	8				
Contents	Importance of rain water harvesting, Various considerations for designing a rain water harvesting system for a residence. Sketches showing rain water harvesting system for a residence						
Method of Assessment External (Theory)							
Course Outcome 4	The student will be able to select mechanical services provisions in buildings	Teach Hrs	Marks				
Learning Outcome 1	The student will be able to list out provisions of air conditioning in buildings	15	12				
Contents	Introduction to Air Conditioning, Principles of artificial Ventilation Classification of Air Conditioning According to assembly of unit (Unitary-Split A/C, Window A/C, Floor mounted and ceiling mounted A/C Central (Plant room, circulation and Ducting)						
Method of Assessment	External (Theory)						
Learning Outcome 2	The student will be able to identify features of mechanical means of vertical circulation	10	5				
Contents	troduction to Lifts and Escalators- Types, their features and utility; ollection of photographs and drawings of different types of Lifts and scalators.						
Method of Assessment	Internal (Term Work)						