



## Plumbing Systems Design Certificate Program

Plumbing systems are one of the most important and vital parts of an overall building design. Through this course of study, an individual will gain an understanding of the basic and advanced principles and code requirements of typical plumbing systems and the ability to design and review plumbing systems.

*Program Duration:* 1 year or 2 semesters

*Prerequisites:* Bachelor of Engineering degree

*Minimum Required Instructional Materials:* 2008 Uniform Plumbing Code-India code book, 2008 Uniform Plumbing Code-India Illustrated Training Manual

### Semester 1

	Proposed Course Title	Total hours	Teaching hours/week
1	Plumbing Terminology I		
2	Intro to Codes and Standards		
3	Plumbing Fixtures and Fixture Fittings		
4	Water Heaters		
5	Water Supply and Distributions		
6	Drainage Systems		
7	Sewer Systems		
8	Indirect Wastes		

### Semester 2

	Proposed Course Title	Total hours	Teaching hours/week
1	Plumbing Terminology II		
2	Vents		
3	Storm Drainage		
4	Fuel piping		
5	Health Care Facilities & Medical Gas and Vacuum Systems		
6	Firestop Protection and Hydrant Systems		
7	Graywater Systems		
8	Backflow Prevention		



### Required IAPMO Core Curriculum

Instructor-led Seminars	Online Courses
2008 UPC-India Essentials	2008 UPC- India Virtual Workshop 1
2008 UPC- India Gas Pipe Sizing	2008 UPC- India Virtual Workshop 2
2008 UPC- India Drain, Waste, and Vents	Introduction to Plumbing
2008 UPC- India Water Supply and Distribution	
2008 UPC- India New Venting Methods	