



*Shri Balasaheb Mane Shikshan Prasarak Mandal's*  
**ASHOKRAO MANE GROUP OF INSTITUTIONS**



**Vathar Tarf Vadgaon | Kolhapur | Maharashtra**

Record No.: **AMGOI/ACAD/34A**

Revision: **00**

Date: **01/07/2024**

**Course Outcomes (Cos)**

**Department:** Civil Engineering

**Academic Year:** 2024 -2025

A.Y/ Class	Semester	Course code	Course Name	Course Outcome No.	Course Outcome
<b>SY 2022-23</b>	<b>IV</b>	BTCVC401	Building Planning and Drawing	BTCVC401.1	To plan buildings considering various principles of planning and bye laws of governing body.
				BTCVC401.2	Comprehend various utility requirements in buildings
				BTCVC401.3	Understand various techniques for good acoustics.
				BTCVC401.4	Understand the concept of green building & low cost building
		BTCVC402	Environmental Engineering	BTCVC402.1	Apply the water treatment concept and methods.
				BTCVC402.2	Prepare basic process designs of water and wastewater treatment plants.
				BTCVC402.3	Apply the wastewater treatment concept and methods.
				BTCVC402.4	Apply the solid waste management concepts.
		BTCVC403	Structural Mechanics - I	BTCVC403.1	Describe the concept of structural analysis, degree of indeterminacy.
				BTCVC403.2	Calculate slopes and deflection at various locations for different types of beams.
				BTCVC403.3	Identify determinate and indeterminate trusses and calculate forces in the members of trusses
				BTCVC403.4	Perform the distribution of the moments the in continuous beam and frame
		BTCVC404	Water Resources Engineering	BTCVC404.1	Understand need of Irrigation in India and water requirement as per farming practice in India.
				BTCVC404.2	Understand various irrigation structures and schemes.
				BTCVC404.3	Develop basis for design of irrigation schemes.
				BTCVC404.4	Understand hydrological cycle and ground water.
		BTCVC405	Hydraulics - II	BTCVC405.1	Design open channel sections in a most economical way.
				BTCVC405.2	Know about the non-uniform flows in open channel and the characteristics of hydraulic jump.
				BTCVC405.3	Understand application of momentum principle of impact of jets on plane.
				BTCVC405.4	Understand working of turbine and pumps.
		BTCVC406	Engineering Geology	BTCVC406.1	Recognize the different land forms which are formed by various geological agents.
				BTCVC406.2	Identify the origin, texture and structure of various rocks and physical properties of



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					mineral.
				BTCVC406.3	Emphasize distinct geological structures which have influence on the civil engineering structure.
				BTCVC406.4	Understand how the various geological conditions affect the design parameters of structures.
		BTCVL407	Building Planning and CAD Lab.	BTCVL407.1	Draw plan, elevation and section of load bearing and framed structures.
				BTCVL407.2	Draw plan, elevation and section of public structures.
		BTCVL 408	Environmental Engineering Laboratory	BTCVL 408.1	Quantify the pollutant concentration in water, wastewater and ambient air.
				BTCVL 408.1	Recommend the degree of treatment required for the water and wastewater.
				BTCVL 408.1	Analyze the survival conditions for the microorganism and its growth rate.
		BTCVL 409	Hydraulic Engineering Laboratory - II	BTCVL 409.1	Understand various properties of fluids and measurement techniques.
				BTCVL 409.2	Carry out calibrations of various flow measuring devices
				BTCVL 409.3	Understand mechanism of hydraulic jump, various jets and pumps.