



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
TY 2023-24	VI	BTCVC601	Design of RC Structures	BTCVC601.1	Able to comprehend the various design philosophies used in design of reinforced concrete.
				BTCVC601.2	Analyze and design the reinforced concrete sections using working stress working stress limit state method.
				BTCVC601.3	Analysis and Design Singly and Doubly Reinforced Beams,
				BTCVC601.4	Analysis and design of axially and eccentrically loaded columns and footing.
		BTCVC602	Foundation Engineering	BTCVC602.1	To predict soil behavior under the application of loads and come up with appropriate solutions to foundation design queries.
				BTCVC602.2	Analyze the stability of slope by theoretical and graphical methods.
				BTCVC602.3	Analyze the results of in-situ tests and transform measurements and associated uncertainties into relevant design parameters.
				BTCVC602.4	Synthesize the concepts of allowable stress design, appropriate factors of safety, margin of safety, and reliability.
		BTCVC603	Transportation Engineering	BTCVC603.1	Comprehend various types of transportation systems and their history of the development
				BTCVC603.2	Comprehend to various types of pavements
				BTCVC603.3	Design the pavements by considering various aspects associated with traffic safety measures.
				BTCVC603.4	Comprehend to various types of Highway Materials
				BTCVC603.5	Comprehend to various types of Other modes of Transport
		BTCVPE604I	Numerical Methods in Civil Engg.	BTCVPE604I.1	Describe the basis of computations, matrix operations of reinforced concrete.
				BTCVPE604I.2	Calculate Roots of Equation, Trial and Error, Bisection.
BTCVPE604I.3	Identify Interpolation with Newton's Divided Differences.				



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				BTCVPE604I.4	Comprehend Implementation of above methods by algorithm.
		BTCVOE605C	Business Communication and Presentation Skills	BTCVOE605C .1	Inculcate basics of business communication skills & relevant tools.
				BTCVOE605C .2	Understand business SOPs and essentials of the same.
				BTCVOE605C .3	Adapt modern skills regarding communication, presentation & team working
				BTCVOE605C .4	Understanding role of meetings, planning meetings, developing meeting agendas, scheduling meetings, Taking notes and publishing minutes
		BTCVL607	SDD of RC Structures Lab	BTCVL608.1	Analyze and evaluate the structural behavior of various civil engineering elements, including retaining walls, elevated water tanks, special staircases, shell roofs.
				BTCVL608.2	Design safe, efficient, and durable structural components such as retaining walls, tank staging, helicoidal staircases, shell roofs.
				BTCVL608.3	Prepare detailed structural drawings, reinforcement detailing, and technical documentation for the analyzed and designed components.
		BTCVL608	Transportation Engineering Lab	BTETC701.1	Perform tests on various road construction materials.
				BTETC701.2	Perform CBR tests on local soils to determine subgrade properties needed for roadways