



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	V	BTCVC 501	Design of Steel Structures	BTCVC 501.1	Identify and compute the design loads and the stresses developed in the steel member.
				BTCVC 501.2	Analyze and design the various connections and identify the potential failure modes.
				BTCVC 501.3	Analyze and design various tension, compression and flexural members
				BTCVC 501.4	Understand provisions in relevant BIS Codes.
		BTCVC 502	Geotechnical Engineering	BTCVC 502.1	Understand different soil properties and behavior
				BTCVC 502.2	Understand stresses in soil and permeability and seepage aspects.
				BTCVC 502.3	Develop ability to take up soil design of various foundations
				BTCVC 502.4	Analyze concept of shear stress
		BTCVC 503	Structural Mechanics –II	BTCVC 503.1	Have a basic understanding of matrix method of analysis and will be able to analyze the determinant structure
				BTCVC 503.2	Have a basic understanding of the principles and concepts related to finite difference and finite element methods
				BTCVC 503.3	Have a basic understanding of concept of influence line
				BTCVC 503.4	Have a basic understanding of analysis of three hinged and two hinged arches
		BTCVC 504	Concrete Technology	BTCVC 504.1	Understand the various types and properties of ingredients of concrete.
				BTCVC 504.2	Understand effect of admixtures on the behavior of the fresh and hardened concrete.
				BTCVC 504.3	Formulate concrete design mix for various grades of concrete.
				BTCVC 504.4	Understand the properties of concrete ingredients & additives.
		BTHM505	Project Management	BTHM505.1	Understand various steps in project Management, different types of charts.
				BTHM505.2	Construct network by using CPM and PERT method.
				BTHM505.3	Determine the optimum duration of project with the help of various time estimates.
				BTHM505.4	Know the concept of engineering economics, economic comparisons, and linear break even analysis problems.
BTHM505.5	Understand the concept of total quality Management including Juran and Deming's philosophy.				
BTCVPE506B	Applied Geology	BTCVPE506B.1	Understand geological time scale and physiographic division of India and their		



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					geological classes
				BTCVPE506B.2	Characteristics different geological formation in India."
				BTCVPE506B.3	Perform sub surface exploration and interpret core log.
				BTCVPE506B.4	Solve numerical problem based on core drilling and seismic data.
		BTCVES507	Software applications in Civil Engineering	BTCVES507.1	Understand civil engineering softwares
				BTCVES507.2	Analyse civil engineering softwares
				BTCVES507.3	Use applications of various softwares in specialized works of civil engineering
				BTCVES507.4	Use application of Microsoft Excel for various puposes
		BTCVL508	SDD of Steel Structures Lab.	BTCVL508.1	Simulate a practical design requirement in to a theoretical statement to solve mathematically to arrive at a safe economical and realistic feasible solution that can be executed. .
		BTCVL509	Geotechnical Engineering Lab	BTCVL509.1	Determine different engineering properties of soil.
				BTCVL509.2	Identify and classify soils based on standard geotechnical engineering practices.
				BTCVL509.3	Perform Laboratory oratory compaction and in-place density tests.
				BTCVL509.4	Perform and interpret direct shear tests and estimate shear strength parameters.