



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
SY 2022-23	III	BTBS301	Engineering Mathematics- III	BTBS301.1	Understand the properties of Laplace transform and evaluate transforms of integral and derivatives.
				BTBS301.2	Solve inverse Laplace transform using partial fraction method and convolution theorem.
				BTBS301.3	Determine Fourier Sine and Fourier Cosine integrals.
				BTBS301.4	Study partial differential equations along with applications.
				BTBS301.5	Study analytic functions, Cauchy Riemann equations, Cauchy integral formula and Cauchy residue theorem.
		BTCVES302	Mechanics of Solids	BTCVES302.1	Perform the stress-strain analysis.
				BTCVES302.2	Draw force distribution diagrams for members and determinate beams.
				BTCVES302.3	Visualize force deformation behavior of bodies.
				BTCVES302.4	Perform failure analysis
		BTCVC303	Building Construction & Drawing	BTCVC303.1	Understand types of masonry structures.
				BTCVC303.2	Comprehend components of building and their purposes.
				BTCVC303.3	Draw plan, elevation and section of various structures.
				BTCVC303.4	Apply the principles of planning and by laws used for building planning
				BTCVC303.5	Prepare detailed working drawing for doors and windows.
		BTCVC304	Hydraulics -I	BTCVC304.1	Calibrate the various flow measuring devices.
				BTCVC304.2	Determine the properties of fluid and pressure and their measurement.
				BTCVC304.3	Understand fundamentals of pipe flow, losses in pipe and analysis of pipe network.
				BTCVC304.4	Visualize fluid flow phenomena observed in Civil Engineering systems.
		BTCVC305	Surveying	BTCVC305.1	Perform measurements in linear/angular methods.
				BTCVC305.2	Perform plane table surveying in general terrain.
BTCVC305.3	Know the basics of leveling survey in elevation and angular measurements.				
BTCVC305.4	Know the basics of Theodolite survey in elevation and angular measurements.				



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	BTHM306	Soft Skill Development	BTHM306.1	Learners will acquire interpersonal communication skills.
			BTHM306.2	Learners will develop the ability to work independently.
			BTHM306.3	Learners will develop the qualities like self-discipline, self-criticism and self-management.
			BTHM306.4	Learners will have the qualities of time management and discipline.
			BTHM306.5	Learners would be able to present themselves as an inspiration for others.
	BTCVL307	Solid Mechanics Laboratory	BTCVL307.1	Evaluate Young Modulus, torsional strength, hardness and tensile strength of given specimens.
			BTCVL307.2	Determine the strength of coarse aggregates.
			BTCVL307.3	Find the compressive strength of concrete cubes and bricks.
			BTCVL307.4	Determine physical properties of given coarse aggregates, fine aggregates and cement samples.
	BTCVL308	Hydraulics-I Laboratory	BTCVL308.1	Analyze the properties of fluids and their verification.
			BTCVL308.2	Predict empirical behavior of fluids.
			BTCVL308.3	Apply principles of hydraulics while working in field.
	BTCVL309	Surveying Laboratory	BTCVL309.1	Use the theodolite along with chain/tape, compass on the field.
			BTCVL309.2	Apply geometric and trigonometric principles of basic surveying calculations.
			BTCVL309.3	Plan a survey, taking accurate measurements, field booking, and adjustment of errors.
			BTCVL309.4	Apply field procedures in basic types of surveys, as part of a surveying team.
			BTCVL309.5	Employ drawing techniques in the development of a topographic map.