A.T.V.V. Mandal's

B. D. Kale Mahavidyalaya, Ghodegaon

DEPARTMENT OF CHEMISTRY

Course Outcomes

F.Y.B.Sc.(Chemistry)

Sr.No.	Class	Course	Course Outcome
	F.Y.B.Sc Semester I	CHE-101T : Fundamental Chemistry **I**	CO1: recall the fundamental concepts of the mole concept, atomic structure, organic chemistry, catalysis, and surface chemistry. CO2: explain the principles of chemical stoichiometry, Hund's rule, Aufbau principle and catalysis. CO3: utilize the knowledge of the mole concept, atomic structure, factors affecting the reactivity of organic compounds, and surface chemistry. CO4: apply the principles of the mole concept, atomic structure, organic reactivity, catalysis, and surface chemistry to solve the problems. CO5: evaluate the solutions based on their concentration, and organic structures based on their reactivity and surface chemistry. CO6: propose solutions to problems related to organic chemistry reactions, catalysis mechanisms, and atomic structure concepts, and apply them to real-world scenarios.
		CHE-102P:Practical chemistry	CO-1: acquire basic knowledge of experiments of including adsorption, organic qualitative analysis, and inorganic preparations and estimations. CO-2: utilize theoretical concepts to perform experiments, interpret data, and formulate conclusions. CO-3: foster critical thinking abilities to assess and enhance the reliability and accuracy of experimental findings. CO-4: report scientific findings of laboratory experiments. CO-5: evaluate experimental outcomes to draw insightful conclusions. CO-6: develop problem-solving skills. Course Cont
	F. Y. Semester II	CHE-151T: Fundamental Chemistry **II**	CO1: recall and explain the fundamental principles and concepts from Photochemistry, Chemical Kinetics, Periodicity, Stereochemistry, and Chemical Bonding. CO2: identify experimental key concepts involved in Photochemistry, Chemical Kinetics,

			Periodicity, Stereochemistry, and Chemical Bonding. CO3: draw conclusions about reaction mechanisms, kinetics, periodic trends, stereochemical relationships, and bonding properties. CO4: apply the principles of Photochemistry, Chemical Kinetics, Periodicity, Stereochemistry, and Chemical Bonding to solve complex problems and scenarios. CO5: evaluate the significance of photochemical reactions, kinetic processes, periodicity, bonding theories like VBT and MOT and stereochemical structures. CO6: propose solutions, and contribute to the advancement of scientific knowledge applications.
		CHE- 152P: Chemistry Practical –II	CO-1: learn vital lab techniques: colorimetry, kinetics, organic purification, investigative inorganic experiments, and Avogadro applications. CO-2: apply theoretical principles to design and conduct experiments, analyze data, and draw conclusions. CO-3: cultivate critical thinking skills to ensure the reliability and accuracy of experimental results. CO-4: communicate scientific findings through laboratory reports, utilizing proper scientific formatting, terminology, and data analysis techniques. CO-5: evaluate experimental outcomes to draw insightful conclusions. CO-6: develop problem-solving skills.

B.D.KALE MAHAVIDYALAYA Code No. 196 GHODEGAON

Principal
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