



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE New Delhi)
(Accredited by NAAC with "A" Grade and Accredited by NBA for CSE, ECE, EEE, ISE and ME)
(ISO 9001:2015 & ISO 14001:2015 Certified Institute)

Department of Chemistry

COURSE: ENGG CHEMISTRY THEORY

SUBJECT CODE:21CHE12

Course Objectives

1	Master the basic knowledge of engineering chemistry for building technical competence in industries, research and development.
2	To develop knowledge in the fields use of free energy in chemical equilibrium, electrochemistry and energy storage systems, corrosion and metal finishing.
3	To understand the importance of alternative energy systems, green chemistry, volumetric analysis, Water chemistry, Instrumental methods of analysis and Nanomaterials.

Course outcomes

At the end of this course the students will be able to

CO1	Analyze the concepts of electrochemical energy systems & batteries.
CO2	Understand the fundamental concepts of corrosion, its control & techniques of Metal finishing
CO3	Understand the importance, synthesis and applications of polymers and nanomaterials.
CO4	Conceptualize the principles of green Chemistry, understand the properties and application of alternative fuels.
CO5	Analyze the water quality parameters and also fundamental principles, applications of analytical techniques.

CO-PO Mapping

Mapping of Course outcomes, Program Objectives and Program specific outcomes

Note: 1 = Slight 2 = Moderate 3 = Strong

Course outcomes	Program Outcomes												PSOs		Total
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO-1	3														
CO-2	3														
CO-3	3						1								

