



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING – DATA SCIENCE

COURSE OUTCOMES (COs)

Semester: I

Course Name: Engineering Chemistry		Course Code: BT-101
Students will be able to:		
CO1:	Understand the hardness of water, analysis of water, boiler problem and waters of hardening Methods to improve the quality of hard water for industrial purposes.	
CO2:	Understand functions of lubricants, mechanism and properties of lubricants.	
CO3:	Understand major chemical reactions that are used in synthesis of polymers.	
CO4:	Understand the fundamentals of corrosion and its mechanism, phase diagram of single and double component systems and identification of organic structure by spectroscopic Methods.	
CO5:	Understand and rationalize periodic properties such as ionization potential, electro negativity and oxidation states	

Course Name: Mathematics-I		Course Code: BT-102
Students will be able to:		
CO1:	Understand the complete knowledge of differential calculus involving fundamental tools.	
CO2:	Apply the application of double integration and triple integration in finding the area and volume.	
CO3:	Discuss the convergence of series by various testing methods.	
CO4:	Interpret algebraic and geometric presentation so far vector and perform common matrix Operations in vector space.	
CO5:	Solve linear system of equation using the language of matrices.	



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Course Name : English for Communication		Course Code: BT-103
Students will be able to:		
CO1:	Identify the basic grammar tools and techniques to utilize them in language development..	
CO2:	Develop flair for any kind of writing with rich vocabulary and achieve fluency and Comprehensibility.	
CO3:	Develop skills to communicate effectively in verbal and non-verbal forms from the Employability perspective.	
CO4:	Show proficiency in using technical information and knowledge for practical Documentation and presentations.	
CO5:	Prepare effective business correspondence with brevity and clarity to maximize job prospects	

Course Name :Basic Electrical &Electronics Engineering		Course Code:BT-104
Students will be able to:		
CO1:	Explain the concept so flaws of D.C circuits. And also illustrate the behavior of network Theorems of D.C. circuits.	
CO2:	Explain the concepts of A.C circuits and fundamentals of 1-phase A.C circuits and 3-phase A.C. circuits. And also illustrate the behavior of a given R-L, R-C and R-L-C single-phase A.C. circuits and star and delta three- phase A.C .circuits for resistive, Inductive and capacitive loads.	
CO3:	Explain the fundamentals of magnetic circuits and also illustrate the constructional Features, working principle and the performance of single-phase transformers.	
CO4:	Illustrate the constructional features ,working principle and the performance of electrical Machines.	
CO5:	Explain the fundamental so basic electronics and its characteristics and also illustrate number systems and different types of digital electronic circuits.	



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Course Name: Engineering Graphics		Course Code: BT-105
Students will be able to:		
CO1:	Apply the basic principles of geometrical construction, dimensioning, and scaling in technical drawing.	
CO2:	Sketch the projections of planes and solids in two-dimensional and three-dimensional workspaces using the principles of orthographic projection.	
CO3:	Interpret and develop sectional views of regular solids to understand their internal and hidden features.	
CO4:	Develop and prepare isometric views, and convert orthographic views to isometric views and vice versa by applying the principles of projection.	
CO5:	Create two-dimensional and three-dimensional models of engineering components using modern engineering tools (CAD software) for industrial applications.	

Course Name: Manufacturing Practices		Course Code: BT-106
Students will be able to:		
CO1:	Construct the job using fitting process	
CO2:	Apply the minimum practical skill and make a carpentry job	
CO3:	Build a job by Selecting a suitable technique from getting a specific fabrication need in sheet metal.	
CO4:	Construct a job using cold smithy techniques and make a chisel.	
CO5:	Construct simple components using Wax casting.	



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Course Name: Swach Bharat/ Rural Outreach		Course Code:BT-108
Students will be able to:		
CO1:	Create awareness among students towards sanitation and cleanliness.	
CO2:	Facilitate efforts to achieve universal sanitation coverage and promote greater awareness and focus on sanitation.	
CO3:	Determine the link between sanitation and development.	
CO4:	Analyze and predict the sanitation challenges of India.	
CO5:	Explain the Swachh Bharat Mission for rural and urban areas.	

Approved By:-
Head of Department