

SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY
AUTONOMOUS
BASIC SCIENCES AND HUMANITIES

I SEM COURSE OUTCOMES (R20)

SUBJECT NAME	COURSE OUT COMES
Linear Algebra	<p>CO1 test the consistency and solve system of linear equations by using the matrix algebra techniques that is needed by engineers for practical applications. (K1,K2,K3)</p> <p>CO2. verify Cayley - Hamilton theorem and its applications as well as finding the Eigen values and eigen vectors. (K1,K2,K3)</p> <p>CO3. frame the Quadratic Forms and to reduce it to the canonical form. (K2,K3)</p> <p>CO4. familiarize with functions of several variables. (K1,K2,K3)</p> <p>CO5 familiarize double and triple integrals. (K1,K2,K3)</p>
Engineering Physics	<p>CO1: Describe basic crystal systems and determination of crystal structures. (K2)</p> <p>CO2: Explain Magnetic and Dielectric Materials properties. (K2)</p> <p>CO3: Describe concept of Magnetic Induction and Super Conducting properties. (K2)</p> <p>CO4: Explain pure and doped semi conductor devices for better utility . (K2)</p> <p>CO5: Describe optical fibers and optical properties of materials and their applications. (K2)</p>
Engineering Chemistry	<p>CO1: Explain the impurities present in raw water, problems associated and how to avoid them (K2)</p> <p>CO2: Explain the advantages of Polymers in daily life. (K2)</p> <p>CO3: Explain the theory and construction of battery and fuel cells and theories of corrosion and prevention methods. (K2)</p> <p>CO4: Differentiate conventional and non conventional energy sources and their advantages and disadvantages. (K2)</p> <p>CO5: Identify the usage of the advanced material in day to day life. (K2)</p>
English	<p>CO1: Identify the parts of speech, root words and apply relative writing formats to prepare notes. (K2, K3)</p> <p>CO2: Express ideas coherently in day to day life. (K2)</p> <p>CO3: Identify the importance of correct usage of grammar. (K2)</p> <p>CO4: Illustrate ideas effectively on various topics. (K3)</p> <p>CO5: Prepare the reports and essays by using the appropriate sentences. (K2)</p>
Problem Solving Using C Programming	<p>CO1: Illustrate the Fundamental concepts of Computers and basics of computer programming. (K2)</p> <p>CO2: Use Control Structures and Arrays in solving complex problems (K3)</p> <p>CO3: Develop modular program aspects and Strings fundamentals (K3).</p>

	<p>CO4:Demonstrate the ideas of pointers usage (K3)</p> <p>CO5: Solve real world problems using the concept of Structures, Unions and File operations (K3)</p>
Basic Electrical & Electronics Engineering	<p>CO1. Solve simple DC circuit using KVL, KCL and Network Theorems. [K3]</p> <p>CO2. Understand the fundamental concepts of single-phase and three phase systems analysis for simple AC circuit. [K2]</p> <p>CO3. Demonstrate the construction, working principles and operating characteristics of DC machines, transformer and AC rotating machines. [K2]</p> <p>CO4. Understand the construction details, operation and characteristics of various semiconductor devices. [K2]</p> <p>CO5. Understanding the digital and logic operations using Boolean Algebra. [K2]</p>
Engineering Drawing	<p>CO1:Construct polygons, conics, cycloids, involutes. (K3)</p> <p>CO2:Draw the orthographic projections of points, lines in different positions. (K2)</p> <p>CO3:Draw the orthographic projections of plane surfaces in different positions.(K2)</p> <p>CO4:Draw the orthographic projections of solids like prisms, cylinder, pyramids and cone(K2)</p> <p>CO5:Convert Isometric views to orthographic views and vice-versa and also visualize 2D &3D Objects using Auto CAD. (K3)</p>
Building Material And Construction	<p>CO1: Reproduce knowledge towards civil engineering materials like stones, bricks , tiles in building construction.(K1)</p> <p>CO2: Explain about stone masonry, wood in building construction (K2)</p> <p>CO3: Interpret the application of lime, cement and their importance in nconstruction field.(K2)</p> <p>CO4: Prepare building components like lintels, archels, vaults,stair cases(K3)</p> <p>CO5: Discuss various finishings in building construction (K3)</p>
Engineering Graphics	<p>CO1:Construct polygons, conics, cycloids, involutes. (K3)</p> <p>CO2:Draw the orthographic projections of points, lines in different positions. (K2)</p> <p>CO3:Draw the orthographic projections of plane surfaces in different positions.(K2)</p> <p>CO4:Draw the orthographic projections of solids like prisms, cylinder, pyramids and cone(K2)</p> <p>CO5:Convert Isometric views to orthographic views and vice-versa and also visualize 2D &3D Objects using Auto CAD. (K3)</p>