

Elementary Mathematics

Course Outcomes:

After completion of the course the students will be able to:

CO1: Learn about the contributions of ancient Indian mathematicians in algebra, geometry, trigonometry, calculus, and astronomy.

Learn about prime numbers, Latin, and magic squares, the place-value decimal system, which expresses every number using a set of ten symbols, each with a place value and an absolute value and Develop problem solving skills, simplify complex calculations, improve speed and accuracy, enhance cognitive skills and boost confidence and interest in math.

CO2: Learn about the early contributions of Indian mathematicians to the concept of zero as a number, negative numbers, arithmetic, and algebra.

CO3: Students can apply these methods in solving some physical problems.

Understand to develop a connection between daily life contexts and mathematical thinking

CO4: ICT can improve college students' academic outcomes, including their mathematical understanding, problem-solving skills, and critical thinking abilities.

CO5: Understand how trigonometric functions relate to right triangles and solve word problems involving right triangles. Learn to extend the definitions of the trigonometric functions beyond right triangles using the unit circle and measure angles in radians as well as degrees.

CO6: Understand number and spatial sense and the ability to recognize patterns and structures of number and shapes.

Understand the core mathematical concepts of algebra arithmetic, geometry, and trigonometry

CO7: Understand and acquire basic mathematical concepts and computational skills. Students will also develop creativity and the ability to think, communicate, and solve problems.