TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108
Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)
Approved by AICTE, New Delhi, Govt. of Maharashtra
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

Aeronautical Engineering Department

B.Tech Final Year (Semester-VII)
BAE4708: Finite Elements Method

BAE4708	Course Outcomes
CO1	**Understand** the plane stress & plane strain differential equation of equilibrium & compatibility equation, with boundary conditions
CO2	**Analyze** the Concept of discretization of body into elements and basic types of 2-D & 3-D elements, displacement models,
CO3	**Analyze** the various types of 2D elements applied to plane stress, plane strain and axis symmetric problems.
CO4	**Solve** complicated 2D & 3D Isoperimetric structural problems for stress analysis.
CO5	**Determine** formulation of mass matrix for one-dimensional bar element, free vibration analysis using one dimensional bar element.