## CHAIR FOR COMPUTATIONAL ENGINEERING DEPARTMENT OF CIVIL ENGINEERING CRACOW UNIVERSITY OF TECHNOLOGY

## LABORATORY ASSIGNMENT

Write a program to solve a system of linear algebraic equations using the Gauss elimination method and the Jacobi as well as Gauss-Seidel methods. Use the first method to calculate the inverse matrix. For the iterative method, analyze the convergence of iterations for different systems of equations. Hint: use *diag & tril numpy package* functions.