

FAST National University of Computer and Emerging Sciences
FALL 2022

MT-1004 Linear Algebra

Course Content for Mid-Term 1 Exam

Contents/Topics	Exercises
Introduction, System of Linear equations, Elementary row operation	1.1 (1-20)
Solving system of Linear equations: Gaussian Elimination and Gauss Jordan methods Matrix Operations Elementary Matrices, Methods for finding Inverse, Invertible Matrices,	1.2 (1-26) 1.5 (1-6, 11-18) 1.6 (1-20)
Diagonal, triangular, and symmetric matrices, Matrix Transformations	1.7 (1-10, 19-28) 1.8 (1-24, 27-41)
Application no 1: Network Analysis Determinants and their properties, Minors, Cofactors, Inverse using cofactors, Cramer's Rule	1.10 (1-4) 2.1 (1-32) 2.2 (1-23) 2.3 (1-29,31,32)