Syllabus for Common Entrance Test of B.Tech. Lateral Entry Admission

(Academic Session 2019-2020)

Number and operations: Operations, ratio and proportion, complex numbers, counting, elementary number theory, matrices, and sequences; Algebra and functions: Expressions, equations, inequalities, representation and modeling, properties of functions (linear, polynomial, rational, exponential); Geometry and measurement: Plane Euclidean coordinate lines, parabolas, circles, symmetry, transformations, three-dimensional solids, surface area and volume (cylinders, cones, pyramids, spheres, prisms), trigonometry right triangles, identities; Data analysis, statistics and probability: Mean, median, mode, range interquartile range, graphs and plots, least squares regression (linear), probability; General aptitude and reasoning: series completion, blood relation, direction sense, number, ranking and time sequence, mathematical operation, arithmetical reasoning, inserting the missing character.