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Course 102: Mathematics

Course Content	<p>Unit 1. Set Theory</p> <ul style="list-style-type: none">1.1. Introduction1.2. Representation1.3. Operation and its properties1.4. Venn Diagram1.5. Cartesian product and graph <p>Unit 2. Functions</p> <ul style="list-style-type: none">2.1. Definition2.2. Types – Domain and Range2.3. Construction and functions <p>Unit 3. Mathematical Logic</p> <ul style="list-style-type: none">3.1. Introduction to logic3.2. Truth Table <p>Unit 4. Boolean Algebra</p> <ul style="list-style-type: none">4.1. Definition & Examples of Boolean Algebra4.2. Boolean Functions4.3. Representation and minimization of Boolean Functions4.4. Design example using Boolean algebra <p>Unit 5. Matrices and Determinants</p> <ul style="list-style-type: none">5.1. Matrices of order $M * N$5.2. Row and Column transformation5.3. Addition, Subtraction and multiplication of Matrices5.4. Computation of Inverse5.5. Cramer's Rule5.6. Business Application of Matrices
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