

المفردات	المادة	المرحلة
<p>1-Mathematical Induction 2- Mathematical Logic 1-Introduction 2-Simple logic statements 3-VariableUse In proposition statements 4-Compound logic statements 5- Logical propositions 6-Logical Equivalence 7- Tautology statement&amp;contradiction statement 8-Logical Implication 9-Algebra of propositions 10-Conditional Statements&amp; Variations 11-Quantifiers 12-Logical Reasoning // 3-Sets Theory 1-Introduction2- Methods of Expressing Sets 3-Principle Concepts of Sets 4-Venn Diagrams 5- Sets of Numbers 6-Algebra of sets 7- Family of Sets&amp; index Family of Sets 8-Ordered Pairs&amp; Products Sets 9- Boolean Algebra // 4- Relations 1- Introduction 2-Binary Relation 3- Graph of the Relation 4- Photographer representation of the relations 5-The Domain &amp;the Range of aRelation 6-Identity Relation &amp;Inverse Relation 7- Composition Relation 8-Type of Relation 9- Equivalence Relations//5- Functions 1- Introduction 2- Principle Concepts &amp; Definition 3-Models of Functions 4- Composition Function 5- Algebra of Function 6- Discussion Functions through theplanned equity 7- Draw Graphs Functions //6- Vectors and Matrices 1- Introduction 2-Vectors 3-Matrices 4- Models of Square Matrices 5-Algebra in the Matrices 6- Determinants 7- Minors&amp; Cofactors 8-Find Inverse Square Note Singular Matrix 9-Solving System of liner equations using the Non-homogeneous Matrix inverse 10- Grammar Rule //7- Graph Theory 1- Introduction 2-Principle Concepts 3-Type of Graphs 4- Definitions 5- Examples of Graphs 6- Graphs&amp;Relation 7-Graphs&amp;Matrices 8-Pruning Algorithm for Minimal path // 8- Formal Language and Machines1- Introduction 2- هياكل متقطعة- PrincipleConcepts 3-Languages 4- Crammers 5- Type of Crammer 6-Machines 7- Finite States Machine 8- Finite Automata//9- The Mathematical Systems and the Groups1- Introduction 2- Principle Concepts 3-Mathematical Systems 4- Groups 5- Cossets 6- Normal Subgroups 7- Quotient group 8-Homomorphism&amp; Isomorphism 9- Rings 10-Fields</p>	<p>هياكل متقطعة discrete structures</p>	<p>الاولى</p>