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| **Delivery Plan (Weekly Syllabus)**المنهاج الاسبوعي النظري |
|  | **Material Covered** |

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| **Week 1** | Sets, Types of set, Operations on sets |
| **Week 2** | Set identities, Computer Representation of Sets (multi-sets, fuzzy sets) |
| **Week 3** | Sequences and Summations |
| **Week 4** | Properties of Integers and Applications of Number Theory |
| **Week 5** | Propositional and Logical Operations, Conditional Statements |
| **Week 6** | Mathematical reasoning and Induction, Recursive |
| **Week 7** | Mathematical proofs: Methods of Proving Theorems |
| **Week 8** | Mid-term Exam |
| **Week 9** | Relations: Properties of Relations, Operations Relations, Computer Representation of Relations |
| **Week 10** | Functions: Properties of Functions, Functions types |
| **Week 11** | Trees: Types of trees, Trees as Models, Properties of Trees |
| **Week 12** | Tree Traversal, Universal Address Systems , Traversal Algorithms |
| **Week 13** | Infix, Prefix, and Postfix Notation of tree |
| **Week 14** | Graph: Types of graphs, Some Special Simple Graphs |
| **Week 15** | Representing Graphs, Isomorphism and Isomorphic of graphs |
| **Week 16** | Preparatory week before the final Exam |