Set Theory and Logic

- Set

- Euler-Venn diagrams

- $x \in A$: x belongs to A, A contains x

- $A \subseteq B$: A is a subset of B

- Operations with sets

  - Union
  - Intersection
  - Difference
  - Symmetric difference

- Universe

- Complementation

- Predicate

- De Morgan Laws

- Quantifier ($\forall$: for all, universal; $\exists$: there exists, existensional)

- Contraposition law

- Duality

- Characteristic function