



SMIT SIKKIM
MANIPAL
UNIVERSITY
SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

Engineering Mathematics III

Discrete Mathematics

Lecture 2

Set Theory: Introduction, Principle of Inclusion and Exclusion (Part 2)

This course is taught to Computer Science Engineering students in SMIT, India during Jun-Dec, 2019.

Combination of two sets

- $A \cup B$: Union of two sets
- $A \cap B$: Intersection of two sets
- $A \setminus B$ or $A - B$: Difference of two sets
- A^c or \overline{A} : Complement of a Set

Principle of Inclusion and Exclusion

Examples

Cartesian Product

Relations

Questions?

Thank you

