CISC 2210 – Introduction to Discrete Structures

Reading Assignment: Sets

• Study Chapter 1 sections 1.1 to 1.7 pages 1–11 in the book Schaum’s book on Discrete Mathematics.
  https://alas.math.yu.ac.rs/~mi10164/Materijali/DS.pdf

• Watch lecture 5 “Set Theory” from “Introduction to Higher Math”. The first 4 lectures were part of the previous reading assignment.
  https://www.youtube.com/watch?v=HoWC0GQWGaA&feature=youtu.be

• Watch lectures 1,3,4 about Sets from TrevTutor.
  – Introduction to Set Theory: https://www.youtube.com/watch?v=tyDKR4FG3Yw&feature=youtu.be
  – Subsets and Power Sets: https://www.youtube.com/watch?v=H5D6EAezsXQ&feature=youtu.be
  – Set Operations: https://www.youtube.com/watch?v=4TlCToZZ5gA&feature=youtu.be
  – All lectures and practice sessions (first 11 videos): https://www.youtube.com/playlist?list=PLDDGPdw7e6Ag1EIznZ-m-qXu4XX3A0cIz

• Study the text about the De Morgan’s Laws.
  https://www.embibe.com/exams/de-morgans-law/

• Tutorials
  – Short and basic: https://www.tutorialspoint.com/discrete_mathematics/discrete_mathematics_sets.htm

• Additional resources.
  – Basic Set Theory in 5 parts.
    * Introduction to Sets and Set Notation: https://www.youtube.com/watch?v=rRk0d6P4oUI
    * Common Universal Sets: https://www.youtube.com/watch?v=pL7m76igVFA
    * Set Operations, Complements, and Subsets: https://www.youtube.com/watch?v=GOgNoYw9qYE
    * More About Elements and Subsets: https://www.youtube.com/watch?v=ZapWv4v7ybQ
    * Cardinality: https://www.youtube.com/watch?v=CeW_FAp2v8U&t=3s
  – More about sets via examples.
    * Set Elements and Subsets: https://www.youtube.com/watch?v=Pc79EK5XjTg
    * Empty set and Power Sets: https://www.youtube.com/watch?v=Wp8mpUvXyZ0
  – Types of sets.
    * https://www.youtube.com/watch?v=VSd1vOF-2jI
  – Set Theory Basics.
    * https://www.youtube.com/watch?v=IgpOd6laK18