Lecture No 2
“Programmable Logic Controllers (PLC) - Part II. Programming”

1. PLC software structure - system and application software
2. Program execution in PLCs

3. IEC 61131-3 standard for PLC programming languages
   - definitions
   - common elements
     - data types
     - variables
     - configurations
     - resources
     - tasks
     - programs
     - functions and function blocks
   - sequential function charts (SFC) - steps, transitions, action blocks
   - programming languages - textual and graphical
     - Instruction List (IL language)
     - Structured Text (ST language)
     - Ladder Diagram (LD language)
     - Functional Block Diagrams (FBD)