Educational requirements for the IB grade exam for students choosing the COMPUTER SCIENCE subject in 1349 IB School in Poznań

| The scope of material: | Required skills: |
| :---: | :---: |
| 1. Programming fundamentals | - construct flowcharts of algorithms using appropriate sequences, selections/conditionals, loops and operators to solve a range of problems, to fulfil a specific requirement <br> - implement algorithms using a pseudocode to solve a range of problems <br> - analise existing flowcharts of algorithms with a set of input values and finding outputs |
| 2. Computer system | - describe the different components within a computer and the function of those components <br> - describe the functions of an operating system |
| 3. Data representation | - describe the rationale for using the binary number system in digital computing <br> - convert between binary, hexadecimal and decimal number systems <br> - operations (addition and substraction) on binary number system |
| 4. Network fundamentals | - characteristics of different network devices and transmission media <br> - characteristics of different types of network |

