

# Syllabus for External Exams

## Computer Science / Hello Code

In this term, we have covered the following Python topics in Computer Science:

- |  |   |
|--|---|
| <b>1. Python Introduction</b>                  | <b>1. What is Computer</b>                  |
| <b>2. Python Comments</b>                      | <b>2. What is Mouse</b>                     |
| <b>3. Print in Python (Basic Input/Output)</b> | <b>3. What is hardware and software</b>     |
| <b>4. Python Variables</b>                     | <b>4. What are input and output devices</b> |
| <b>5. Casting in Python (Type Conversion)</b>  | <b>5. What is Desktop</b>                   |
| <b>6. Numeric Datatypes</b>                    | <b>6. What is Desktop</b>                   |
| • int (Integer Numbers)                        | <b>7. What are Sensors</b>                  |
| • float (Decimal Numbers)                      | <b>8. What are Sensors</b>                  |
| <b>7. String Datatype</b>                      | <b>9. Microsoft Paint</b>                   |
| • Slicing strings                              | <b>10. Microsoft Word</b>                   |
| • Modify strings                               | <b>11. What are Problems</b>                |
| • Concatenate strings                          | <b>12. Scratch</b>                          |
| • Format strings                               | <b>13. What are Problems</b>                |
| <b>8. Boolean Datatype (True/False)</b>        | <b>14. Google Drive</b>                     |
| <b>9. Operators</b>                            | <b>15. What is Internet</b>                 |
| • Arithmetic Operators                         | <b>16. What are websites</b>                |
| • Assignment Operators                         |   |
| • Comparison Operators                         |   |
| • Logical Operators                            |   |
| <b>10. List / Array Datatype</b>               |   |
| • Access or print list items                   |   |
| • Change list items                            |   |
| • Add list items                               |   |
| • Remove list items                            |   |
| <b>11. Tuples/ set/ dictionary</b>             |   |
| <b>12. Conditions</b>                          |   |
| • if conditions                                |   |
| • if-else conditions                           |   |
| • if-elif conditions                           |   |
| • if-elif-else conditions                      |   |
| <b>13. Match - Case Statements</b>             |   |
| <b>14. While loop</b>                          |   |
| <b>15. Functions</b>                           |   |