Python Syllabus

Md.Farmanul Haque

Technical Trainer

GLA University Mathura

1. **History of Python**
2. **Basic Of Python**
   a. **Variable declaration**
   b. **Operators**
      i. **Arithmetic Operator**
      ii. **Assignment Operator**
      iii. **Relational Operator**
      iv. **Logical Operator**
      v. **Bitwise Operator**
      vi. **Membership Operator**
      vii. **Identity Operator**
   c. **Datatypes**
      i. **Numbers**
      ii. **Strings**
         1. **String Processing**
            a. **Indexing**
            b. **Slicing**
            c. **Splitting**
            d. **Functions related to string processing**
               i. **As per class discussion**
      iii. **Tuple**
         1. **Tuple Processing**
            a. **Indexing**
            b. **Slicing**
            c. **Splitting**
            d. **Functions related to tuple**
               i. **As per class discussions**
      iv. **List**
         1. **List Processing**
            a. **Indexing**
            b. **Slicing**
            c. **Splitting**
            d. **Function related to list**
               i. **As per class discussion**

     v. **Dictionary**
       1. **Dictionary Processing**
         a. **Function related to list**
           i. **As per class discussion**
   d. **Programs as per class discussion**
     i. **Armstrong numbers**
     ii. **Prime numbers**
     iii. **Palindrome**
     iv. **Reversal**
     v. **Fibonacci etc**

3. **Sets**
4. **Conditional**
  a. **If**
  b. **Elif**
5. **Loops**
  a. **For**
  b. **While**
  c. **Infinite**
  d. **Uses of infinite loops**
6. **Functions**
  a. **Parameterized**
  b. **Non Parameterized**
    i. **Default value to argument**
    ii. **Return statement**
  c. **Lambda function**
    i. **Filter function**
    ii. **Map**
    iii. **Reduce**
7. **Math module**
8. **Numpy module**
9. **Random module**
10.**Time module**
11.**File handeling**