**K. K. Wagh Institute of Engineering Education and Research, Nashik**

**Department of Information Technology**

**Three day hands on workshop on Programming Concepts using C++ for school students**

**Date: 08/02/2018 to 10/02/2018**

**Timing: 10:00 am to 4:30 pm**

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| **Day 1**  **Thursday**  **08/02/2018** | **Time** | **Topics to be covered** |
| **Session-I**  **10:10am to 12 pm** | * **Basics of Computer, History of Programming Languages.** * **Introduction to C++ language.** * **Hands on Session (Basic Programs)** |
| **12 pm to 12:35 pm** | **Lunch-Break** |
| **Session-II**  **12:35 to 2:25 pm** | * **Class, Object, Input/Outputs statements in C++** * **Constructor, Destructor and its types.** * **Hands-on Session** |
| **2.25pm to 2.40pm** | **Short Recess** |
| **Session-III**  **2.40pm to 4.30 pm** | * **Friend Function in C++** * **Hands-on Session** |
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| **Day 2**  **Friday**  **09/02/2018** | **Session-I**  **10:10am to 12 pm** | * **Inheritance and its types** * **Hands-on session** |
| **12 pm to 12:35 pm** | **Lunch-Break** |
| **Session-II**  **12:35 to 2:25 pm** | * **Function overloading** * **Hands-on session** |
| **2.25pm to 2.40pm** | **Short Recess** |
| **Session-III**  **2.40pm to 4.30 pm** | * **Hands-on Sessions on types of inheritance and function overloading** |
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| **Day 3**  **Saturday**  **10/02/2018** | **Session-I**  **10:10am to 12 pm** | * **Polymorphism** * **Hands-on session** |
| **12 pm to 12:35 pm** | **Lunch-Break** |
| **Session-II**  **12:35 to 2:25 pm** | * **File Handling in C++** * **Hands-on session** |
| **2.25pm to 2.40pm** | **Short Recess** |
| **Session-III**  **2.40pm to 4.30 pm** | * **Hands-on Sessions on virtual function and file handling.** |
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| **Day 4**  **Sunday**  **11/02/2018** | **10 am to 12 pm** | * **Inter-school C++ Programming contest** |