**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)**
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| **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**
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| **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**
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| **12 pm to 12:35 pm** | **Lunch-Break** |
| **Session-II****12:35 to 2:25 pm** | * **Function overloading**
* **Hands-on session**
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| **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**
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| **12 pm to 12:35 pm** | **Lunch-Break** |
| **Session-II****12:35 to 2:25 pm** | * **File Handling in C++**
* **Hands-on session**
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| **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**
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