National Institute of Electronics and Information Technology, Aurangabad

Name of the Course   : **Object Oriented Programming using C++**

Course Code   : PE104
Duration   : 8 Weeks

Preamble: Object Oriented programming is a base for learning the Programming and the rapid changes in technology, there is an increasing need to keep the academia abreast of the skill set requirement of the industry . C++ is a statically typed, compiled, general-purpose, case-sensitive, free-form programming language that supports procedural, object-oriented, and generic programming. C++ is regarded as a middle-level language, as it comprises a combination of both high-level and low-level language features.

Objective of the Course:
The course is a 8 weeks part time (2-hours daily) course aimed at preparing fresh students for professional positions in the software and IT industry or 10+ 2 student wants some guidance for preparation of c++(OOPS) examinations. Also it is required by the graduate students who want to make programming as profession or giving interviews in the software /IT companies.

Outcome of the Course:
The student will develop Project using c++(OOPs) .On completion of the Course, the Participants shall get Certificate from the NIELIT,Aurangabad.

Course Structure:

Code	Module	Duration
PE104	**Object Oriented Programming using C++**	**8 weeks**

week wise Schedule:
(10 Hours per week)

S. No	Topic	Minimum No. of Hours
1	1st week: Introduction to OOP's concept	02 hrs
2	Data types. Operator & Logical /looping	05 hrs
3	1st week – 3rd week: Functions and arrays	15 hrs
4	Classes & objects	10 hrs
5	4th week: Inheritance	10 hrs
6	5th- week: Polymorphism	10 hrs
7	6th week: Operator overloading	05 hrs

8	7th week: Function overloading	05 hrs
9	Exception handling	05 hrs
10	8th Week: File Handling Operations	08 hrs
11	Introduction to Template	05 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	80 hrs

Other Contents

a. **Course Fees**:. Rs 4000/-

b. **Eligibility**:
   - At least 10th pass.
   - Knowledge of any computer Programming Language will be preferred.
   - Candidates who have appeared in the qualifying examination and awaiting results may also apply.
   - On the date of counseling/admission, the candidate must produce the original mark lists
     Number of Seats : 40

c. **Selection of candidates:** The candidates passed in the qualifying examination will be based on their marks obtained, subject to eligibility and availability of seats.

d. **Admission Procedure** :
   Students who have been selected for test/interview/counseling/admission are required to report to the Institute on the prescribed day by 9:30 hrs along with the following

   1. Attested Copies of Proof of Age, Qualifications, etc
   2. Original Certificate of the above
   3. Two copies of photograph and one stamp size photograph for identity card.
   4. SC/ST Certificate (if applicable)
   5. Income Certificate (if applicable)

   The students on reaching the Institute are required to meet the Front Office Counselor (FOC). The FOC then directs the student to the Course Coordinator. The student gets the enrollment form verified by the Course Coordinator and then

meets the FOC who shall direct the student to the Accounts for payment of fees. A student is thus admitted.

e. **Discontinuing the course**: **No fees under any circumstances shall be refunded** in the event of a student discontinuing the course. A student can however, be eligible for module certificates (applicable only for courses which provide for modular admission) which he has successfully completed provided he has paid the entire course fees.

f. **Course Timings** : 9:30 AM to 5:00 PM (Two hours a day depending on group)

g. **Course enquiries :**
Students can enquire about the various courses either on telephone or by personal contact between 9:30 A.M. to 5.00 P.M. (Lunch time 1.00 pm to 1.30 pm).

h. **Placement**: Support shall be provided

i. **Hostel facilities:**
Limited Hostel accommodation is available for boys and girls on daily or monthly chargeable basis.

j. **Canteen facilities :**
The Centre has a canteen functioning at the main campus and food at reasonable rates is available for breakfast, lunch, and dinner

k. **Lab Facilities**:
Lab Facilities We have state-of-the-art lab facility in computer lab which include,
- Hardware
- *Software*

Faculty
The centre has a team of enthusiastic and competent engineers with postgraduate qualifications who have undergone specialized training in various International Universities and Industries.