



केन्द्रीय माध्यमिक शिक्षा बोर्ड

(मानव संसाधन विकास मंत्रालय, भारत सरकार, के अधीन एक स्वायत्त संगठन)

शिक्षा सदन, 17, इंस्टिट्यूशनल क्षेत्र, राउज एवेन्यु, दिल्ली-110002.

CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organization under the Union Ministry of Human Resource Development, Govt. of India)
"Shiksha Sadan", 17, Institutional Area, Rouse Avenue, Delhi-110002

CBSE /ACAD/DIR (A&T)/CBSE/2013

13th February 2013

Circular No. : Acad-13

All the Heads of Institutions
Affiliated to CBSE

Subject: CBSE to offer I.C.T. teacher training (free) in collaboration with Oracle Academy

Dear Sir/ Madam,

The Central Board of Secondary Education (CBSE) in collaboration with Oracle Academy is offering a free training programme to all its CBSE affiliated school teachers including

- 1) Kendriya Vidyalaya Sangathan
- 2) Navodaya Vidyalaya Samiti
- 3) State Govt. run CBSE Schools
- 4) Private Independent Schools in India
- 5) International Schools

The training in the first rollout offers the following:

1. Java Fundamentals Institute for **"Master Trainers"** identified from each CBSE region in the virtual and in-class training format. The Master Trainers will help deliver future trainings for CBSE.
2. Java Fundamentals Institute for **"Computer Science"** teachers in the virtual and in-class training format.
3. Alice workshops for **Master Trainers of all the subjects**. The Master trainers will help deliver trainings at the regional level.
4. Java Fundamentals Institute for **"Computer Science teachers" of "CBSE International Schools"** in a virtual and Live Virtual Classroom (LVC*) Training format.

All of these training programmes will have special focus on formative assessment activities as per CCE. Further information on the trainings and the pre-requisites is attached as an annexure with this mail. Interested candidates/schools/organisations can contact and fill-up the proforma attached and send by e-mail to (Mark both)

- 1) Mrs. S. Radha Mahalakshmi, Additional Director, CBSE
Contact number is 011-23238361 and e-mail id is radhacbse@gmail.com.
- 2) Mrs. Kamal Peter, Sr. Program Manager, APAC, Oracle Academy
Contact number is +91 8041084687, e-mail is: kamal.peter@oracle.com

Schools are requested to avail this opportunity and to send the details for further follow-up action as soon as possible.

With Regards


(Dr. SADHANA PARASHAR)
DIRECTOR (ART & I)

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18-Institutional Area, Shaheed Jeet Singh Marg, New Delhi-110 016.
2. The Commissioner, Navodaya Vidyalaya Samiti, Navodaya Vidyalaya Samiti, B-15, Institutional Area, Sector-62, NOIDA-201307,.
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi-110 054.
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sector 9, Chandigarh-160 017.
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim – 737 101.
6. The Director of School Education, Govt. of Arunachal Pradesh, Itanagar-791111.
7. The Director of Education, Govt. of A & N Islands, Port Blair-744 101.
8. The Secretary, Central Tibetan School Administration, ESSESS Plaza, Community Centre, Sector 3, Rohini, Delhi-110 085.
9. All the Regional Officers of CBSE with the request to send this circular to all the Heads of the affiliated schools of the Board in their respective regions.
10. The Education Officers/AEOs of the Academic Branch, CBSE.
11. The Director (IT) with the request to put this circular on the CBSE website.
12. Joint Director (ACAD & VOC).
13. The Library and Information Officer, CBSE
14. EO to Chairman, CBSE
15. PS to CE, CBSE
16. PS to Secretary, CBSE
17. PS to Director (CTET & Spl. Exams)
18. PS to Director (Edusat)
19. The PRO, CBSE

DIRECTOR (ART & I)

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ORACLE TRAINING PROFORMA

Date:.....

Training Program/Event you want to participate in: _____

1. Full Name (In capital letter) _____
2. Designation _____
3. E-mail ID (personal) _____
4. E-mail ID (School) _____
5. Qualifications _____
6. Subjects and Classes Taught _____
7. Teaching Experience _____
8. Name of the School _____
9. Region of CBSE _____
10. Address for communication _____

11. Name of Principal : _____
12. E-mail ID of Principal: _____
13. School Address (Postal) _____

14. Contact No. - Mobile (Personal) _____
Landline (O) _____
(R) _____
15. Contact No. Of School: _____

Note : To be send by email through principal (proper channel) to

To
Mrs. S. Radha Mahalakshmi,
Additional Director, (Acad.)
Sikhsha Sadan ,CBSE
17,Rouse Avenue
Near Bal Bhavan (ITO)
New Delhi Pin: 110002
E-mail id -radhacbse@gmail.com

Alice

Getting Started with Alice

Overview:

The Oracle Academy program offers access to world-class software which prepares students for future careers. The professional development offered to teachers on Alice and Greenfoot invigorates the teaching learning experience at schools. Both these softwares are free, open source and developed at highly ranked research universities.

Alice is a 3D educational software developed at Carnegie Mellon University with the support from Oracle. This software is used by schools to teach animation and create simple educational games. By dragging and dropping graphic tiles containing standard programming statements, students develop programs that animate 3D objects that populate a virtual world. In the process, they sharpen their logical thinking and problem solving techniques. They also grasp basic object oriented programming terminology and concepts such as procedure definition, algorithms, functions and conditional statements.

It enables a new way to think and learn by populating virtual worlds intelligently, breaking problem statements into small tasks, and drawing up algorithmic expressions which help in problem solving.

Following will be the outcomes of the workshop:

Teachers:

- Develop skills in animation, storytelling, creating short animated movies and educational games.
- Are equipped to use new innovative methods of teaching and learning for the classroom. It helps make things simple and fascinating to the learner.
- Encourage team work and collaboration.
- Engage the participants in visual thinking, facilitating problem solving and logical thinking.

Teacher Pre-requisites

Required

- The ability to follow software installation instructions and install Alice on a computer.
- Leadership qualities
- Good communication skills

Suggested

- Previous experience as a teacher or instructor of computer programming or ICT curriculum
- Previous experience with incorporating technology into curriculum

Training Duration for Master Trainers – 3 Days of in-class training

Overview of Java Fundamentals Course

This course lays the foundation for students with little or no programming experience to learn the Java programming language. It is designed to get students interested in the problem solving approach, logical thinking and develop 21st century skills.

All the software used for this training is free and open source. The progression from Alice to Greenfoot to the Java integrated development environment is gradual and the animation software will engage the students and make them understand programming concepts in a visually rich interface.

Both Alice and Greenfoot have been created by highly ranked research Universities working on education innovation. Oracle supports the development of both these softwares and encourages the use by students to benefit them.

Students will:

- Learn how to define and animate a story using the **Alice 3** (<http://www.alice.org/>) development environment.
- Create a game and apply Java programming constructs using the **Greenfoot** (<http://www.greenfoot.org>) development environment, further enhancing a student's understanding of Java programming.
- Work with **Eclipse** (<http://www.eclipse.org>) to understand data types and operators, literals, variable initialization, scope rules, casts, and expressions.
- Progress into encapsulation, inheritance, and polymorphism

Virtual Training + In-class Training

- Oracle Academy delivers 8 weeks of virtual training followed by a 2 or 3 days of live classroom experience, a blended learning experience,
- Virtual training precedes in-class training events. During virtual training, teachers complete lessons at their own pace and attend weekly chat sessions to discuss any concepts that need further explanation .**To successfully complete virtual training, teachers must:**
 - Pass the virtual training mid-term and final exam
 - While not required, teachers are also encouraged to:
 - Complete homework
 - Complete quizzes
 - Attend weekly chat sessions

To successfully complete in-class training, teachers must

- Attend in-class
- Participate in projects as appropriate

The curriculum can be accessed on Oracle iLearning portal via a web browser, so there is no technical setup or maintenance for participating institutions. Oracle iLearning is an enterprise Learning Management System (LMS) and a core component of Oracle's E-Business Suite.

Teacher Pre-requisites:**Primary Audience:**

- Teachers who teach computer programming.
- Self motivated and passionate to learn
- Good in time management
- Committed to complete the course and are accountable for implementation.

Secondary Audience:

- Teachers who seek to incorporate technology into their curriculum and awaken students' interest in computer science.



www.oracle.com/academy

Computer lab Requirements

Java Fundamentals	
Internet Speed	High speed connectivity
Local area network (LAN)	Recommended
Processor	Pentium 4 or higher
Operating system	One of the following: <ul style="list-style-type: none">• Windows XP• Windows Vista (32,64-bit)• Windows 7 (32, 64-bit)
Browsers	<ul style="list-style-type: none">• Internet Explorer 6 (or higher)• Firefox 3 (or higher)
Memory	1 GB
Free disk space	<ul style="list-style-type: none">• Required, 1.5 GB• Recommended, 8 GB
Graphics Card	<ul style="list-style-type: none">• Capable of high (16 bit) color and 1024x768 resolution
Sound card	Required
Software	<ul style="list-style-type: none">• JDK 7• Adobe Flash Player (latest)• Any audio/video player (e.g., RealPlayer)• Video capture software