



केन्द्रीय माध्यमिक शिक्षा बोर्ड



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

शिक्षा सदन, 17, इन्सटिट्यूशनल 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/CBSE/DIR (ART&I)/2013

Dated: 07th May, 2013
Circular No.: Acad-31/2013

Subject: Choice of Language under Computer Science Stream for grade XI and XII 2013 -15

Dear Principal,

As you are aware the Central Board of Secondary Education has published modified curriculum for Computer Science (subject code 083) on its website and introduced Python in class XI for session 2013-14 instead of C++. However, as per the feedback received from the teaching fraternity and keeping their comfort level in mind the Board has decided that schools may continue to teach C++ (i.e. Unit 2 and Unit 4 of the book covering C++) in grade XI for session 2013 – 14 or they may choose Python (unit 3 and unit 4 covering python) instead of C++ if they feel comfortable with the language.

Computer Science (Subject code 083) Class XI for session 2013 - 14

Units to be covered under each option (also see annexure 'A')

With C++ as a language option		With Python as a language option	
Unit I	Computer Fundamentals	Unit I	Computer Fundamentals
Unit II	Introduction to C++	Unit II	Programming Methodology
Unit III	Programming Methodology	Unit III	Introduction to Python
Unit IV	Programming in C++	Unit IV	Programming in Python

*Contents of Unit I, Unit III (in case of C++) and unit II (in case of Python) are common in both options.

This change is however not applicable for current batch of class XII writing exam in session 2013-14. (also see annexure 'B') Who will continue to follow the curriculum document of 2014.

However grade XII batch of session 2014-15 will write the exam based on the language selected in class XI. If they have selected C++ in grade XI they will continue to study the same in grade XII. However if the school has switched over to python in grade XI the child will continue to study python in grade XII as well.

Computer Science (Subject code 083) Class XII for session 2014 - 15

Units to be covered under each option (also see annexure ‘C’)

With C++ as a language option		With Python as a language option	
Unit I	Object Oriented Programming in C++	Unit I	Programming with Python
Unit II	Data Structures	Unit II	Object Oriented Programming with Python
Unit III	Database Management System and SQL	Unit III	Databases and SQL
Unit IV	Boolean Algebra	Unit IV	Boolean Algebra
Unit V	Networking and Open Source Software	Unit V	Communication Technologies

*Contents of Unit III, IV and Unit V are largely common in both options.

*Sample question papers in case of both the language options will be available by October 2013.

*Study Material regarding Python will be available on the CBSE website www.cbseacademic.in under the head Training Innovation and Research under Teacher’s Resources. This study material may be referred by students and teachers both. CBSE will not be printing this material in the current academic year. Also note that all the schools must strictly adhere to this study material and teachers must teach accordingly.

Further to inform you that the Board is conducting a survey and wishes to collect feedback from the teachers teaching computer science subject. All the teachers teaching computer science may be requested to provide feedback using the feedback form available online on the website www.cbseacademic.in. Kindly refer to the home page for same.

It is once again requested to cooperate with the Board and disseminate this information to all concerned

Yours sincerely,



Dr. Sadhana Parashar

Director (Academic and Training)

Copy with a request to respective Heads of Directorates/KVS/NVS/CTSA as indicated below to also disseminate the information to all concerned schools under their jurisdiction:-

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18-Institutional Area, Shaheed Jeet Singh Marg, New Delhi-110 016.
2. The Commissioner, Navodaya Vidyalaya Samiti, A-28, Kailash Colony, New Delhi.
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-791 111.
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 Research Officer (Technology) with the request to put this circular on the CBSE website.
12. The Joint Director (Acad. & Voc.).
13. The Library and Information Officer, CBSE
14. EO to Chairman, CBSE
15. SO to CE, CBSE
16. PA to Secretary, CBSE
17. PA to HOD (AIEEE)
18. The PRO, CBSE

Director (Academic and Training)