CBSE/DIR./SE./AI/2020

May 05.2020
Circular No: Acad 32/2020

To
All Heads of Institutions affiliated to CBSE

Subject: Online Awareness / Capacity Building Programme on Artificial Intelligence

Dear Principal,

Greetings from CBSE!

1. To make school studentsAI-ready,Central Board of Secondary Educationhas introduced Artificial Intelligence as a skill subject Secondary and Senior Secondary level along with a 12-hour 'Inspire' module for class VIII.

2. In order to extend support to teachers during this lockdown period, CBSE in association with **IBM** and **Intel** has planned following Online Awareness / Capacity Building Programmes/ Self-learning modules for Principals and teachers :

PROGRAMMES	DATES AND TIMINGS	LINK FOR REGISTRATION
A. Online Awareness Programme to introduce Artificial Intelligencein class XI.	Kick-Off webinar on 14th May 2020 2:00 PM to 4:15 PM	**https://forms.gle/98LgrXa5kZtcrz3a6** (For details refer to Annex. A)
B. Online Capacity Building Programme for teachers teaching AI in schools.	18th, 20th, 22ndMay 2020 2:00 PM to 4:00 PM	**https://forms.gle/98LgrXa5kZtcrz3a6** (For details refer to Annex. B)
C. Online Capacity Building Programme for teachers teaching AI(For Class X).	First Batch begins from 6th May 2020. Dates of subsequent batches (each of six days) shall be informed to registered participants. 10:00 AM to 1:00 PM	**http://bit.ly/AI4CBSERL** (For details refer to Annex. C)

3. Therefore, schools desirous of participating in any of the above-mentioned programmes (as per the eligibility), may register using specified link.

4. For any further query and feedback, the schools may contact:
   - **CBSE**: Joint Secretary, Skill Education at jsse.cbse@gmail.com
   - **IBM:** *Ms.Gayathri Gurumurthy* at aiforclass11@gmail.com
   - **Intel India:** *Mr. Shivam Agarwal* at ai4cbse@gmail.com

(Dr. Biswajit Saha)
Director (Training and Skill Education)

'शिक्षा सदन',17 , राऊज़ एवेन्यू ,इंस्टीटूशनलएरिया, नई दिल्ली–110002
***'Shiksha Sadan'*, 17, Rouse Avenue, Institutional Area, New Delhi – 110002**

फ़ोन/Telephone: 011-23216963, 23214737वेबसाइट/ Website:www.cbseacademic.nic.in/ई/मेल-e-mail: dirtraining.cbse@gmail.com,directorvoc.cbse@gmail.com.

Copy to the respective Heads of Directorates, Organizations and Institutions as indicated below with a request to disseminate the information to all the schools under their jurisdiction:

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18-Institutional Area, Shaheed Jeet Singh Marg, Delhi-110016.
2. The Commissioner, Navodaya Vidyalaya Samiti, B-15, Sector-62, Institutional Area, Noida 201309.
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi-110054
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sector 9, Chandigarh-160017
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim –737101
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 - 744101
8. The Director, Central Tibetan School Administration, ESSESS Plaza, Community Centre, Sector 3, Rohini
9. The Additional Director General of Army Education, A – Wing, Sena Bhawan, DHQ, PO, New Delhi-110001
10. The Secretary AWES, Integrated Headquarters of MoD (Army), FDRC Building No. 202,Shankar Vihar (Near APS), Delhi Cantt-110010
11. All Regional Directors/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 for compliance.
12. All Regional Director/Heads/ In-Charges, COEs of the Board with request to disseminate the information
13. All Joint Secretary/Deputy Secretary/Assistant Secretary, CBSE
14. In charge IT Unit with the request to put this circular on the CBSE Academic website
15. The Head, Public Relations, CBSE
16. PPS to Chairperson, CBSE
17. SPS to Secretary and All Directors, CBSE

Director (Training and Skill Education)

'शिक्षा सदन',17 , राऊज़ एवेन्यू ,इंस्टीटूशनलएरिया, नई दिल्ली–110002
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Annexure A

ONLINE AWARENESS SESSION FOR PRINCIPALS AND TEACHERS

Kick-Off webinar on 14th May 2020
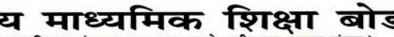### Timings: 2.00 pm – 4.15 pm

- **Target participants:** Principals and Teachers of CBSE affiliated schools who want to offer Artificial Intelligence in Class XI from academic session 2020-2021.
- **Link for Registration: https://forms.gle/98LgrXa5kZtcrz3a6**

TOPICS COVERED	DELIVERED BY	DURATION
• Introduction of Artificial Intelligence as new elective subject for class XI & XII • Future Skills and Jobs related to AI	• Director, CBSE	15 min
• Linkages of the IBM Curriculum framework for students and teachers in India	• IBM	15 min
• Video on **"Why AI"** by John Cohn, IBM Fellow, MIT-IBM Watson Lab	• Recorded Video	15 min
• Introduction on importance of creativity and motivation and implementation in classrooms	• Macquarie University, Australia	30 min
• Presenting CBSE-IBM K-12 AI Curriculum – run through the course outline, explain the levels, threads etc.	• IBM Curriculum team	30 min
• Discussion on the IBM EdTech Youth Challenge	• IBM	10 min
• Overview and orientation on the online teacher training schedule	• IBM	10 min
• Open discussion / Q&A	• IBM/CBSE	10 min

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ONLINE TEACHER TRAINING SESSIONS (LIVE TRAINING)

18ᵗʰ, 20ᵗʰ and 22ⁿᵈ May 2020
Timings: 2.00 pm – 4.00 pm

- **Target participants:** Teachers of CBSE affiliated schools teaching Artificial Intelligence

- **Training shall be provided by faculty from IBM.**

- **Link for registration:** Link for Registration: **https://forms.gle/98LgrXa5kZtcrz3a6**

<table>
<tr>
<td colspan="4"><h2>Day 1: 18ᵗʰ May 2020</h2></td>
</tr>
<tr>
<td></td>
<td align="center">TOPICS COVERED</td>
<td align="center">MODE OF DELIVERY</td>
<td align="center">DURATION</td>
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<tr>
<td>Self - Learning</td>
<td>Module 1: Creating a Spark for AI (Intro to AI)
Link -Click here
Module 2: AI Here, AI There... AI Who, What, Where? (Modern –Day Applications)
Link - Click here</td>
<td>Online Resource</td>
<td>90 mins (each module)</td>
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<tr>
<td>Online Training - Day 1 18ᵗʰMay 2020</td>
<td>
• What is AI?
• What is ML?
• Data
• Terminology of AI: Supervised, Unsupervised, Deep Learning, Reinforced Learning, Neural Networks
• AI Applications: Chatbot, Alexa/Siri, Self-driving cars, Computer Vision etc.
Teacher take-home assignment:
Activity 1: Data-based activity (understanding data)
Activity 2: Computer Vision activity (Teachable machine)
</td>
<td>Live webinar/ training through online platform</td>
<td>2 hours (with breaks in between)

<u>Note:</u> <i>The activity will be given to teacher to work on in their own time before they come back for the next online session</i></td>
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केन्द्रीय माध्यमिक शिक्षा बोर्ड
(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन)

CENTRAL BOARD OF SECONDARY EDUCATION
(An Autonomous Organisation under the Ministry of Human Resource Development, Govt. of India)

Day 2: 20th May 2020			
	TOPICS COVERED	**MODE OF DELIVERY**	**DURATION**
Online Training - Day 2 20th May 2020	● Deep Learning & Cognitive Computing ● Math for AI ○ Set Theory ○ Statistics ○ Regression **Teacher take-home assignment:** **Activity 1:** DL based activity **Activity 2:** Regression – based activity	Live webinar/ training through online platform	**2 hours** (with breaks in between) **Note:** *The activity will be given to teacher to work on in their own time before they come back for the next online session*

Day 3: 22nd May 2020			
	TOPICS COVERED	**MODE OF DELIVERY**	**DURATION**
Self - Learning	**Module 3**: Ethics in AI- Can you crack the moral code? (Benefits & Harms of AI) Link - Click here	Online Resource	**90 mins** (each module)
Online Training - Day 3 22nd May 2020	● AI Values & Ethics (with live interactive activity) ● Storytelling with Data **Teacher take-home assignment:** **Activity 1:** Storytelling based activity **Activity 2:** Empathy Map / DT Framework	Live webinar/training through online platform	**2 hours** (with breaks in between) **Note:** *Storytelling assignment to be uploaded by teachers on common drive*
	● Q&A and Teacher interaction ● Close of Phase – 1 online teacher training		

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ONLINE CAPACITY BUILDING PROGRAM FOR TEACHERS (LIVE TRAINING)

- **Target participants:** Teachers of CBSE affiliated schools who are/shall be teaching AI to students in class X in the session 2020-2021.
- **Training shall be provided by faculty from Intel.**
- **First Batch begins from 6th May 2020. Dates of subsequent batches (each of six days) shall be informed to registered participants.**
- **Link for Registration:** http://bit.ly/AI4CBSERL

Day/ Session	Timings	Agenda
Day 1	10:00 AM – 01:00 PM	Unit 1: Introduction to AI: Foundational Concepts Unit 2: Introduction to AI: Basics
Day 2	10:00 AM – 01:00 PM	Unit 3: AI Project Cycle Unit 4: Advance Python (Theory)
Day 3	10:00 AM – 01:00 PM	Unit 4: Advance Python (Hands - on session) Unit 5: Data Science (Theory)
Day 4	10:00 AM – 01:00 PM	Unit 5: Data Science (Hands - on session) Unit 6: Computer Vision (Theory)
Day 5	10:00 AM – 01:00 PM	Unit 6: Computer Vision (Hands - on session) Unit 7: Natural Language Processing (Theory)
Day 6	10:00 AM – 01:00 PM	Unit 7: Natural Language Processing (Theory) Unit 8: Evaluation

These webinars are a **joint effort byCBSE and Intel** to enable teachers to guide their students in a better way. Postwebinars, appropriate hand-holding shallalso be provided through emails/ social media.

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