

Digital/e-Learning Platforms provided by MHRD:

Aside from the NCERT calendar, during these difficult times, teaching and learning can also continue with the help of comprehensive digital learning platforms focused on providing curriculum linked and curated content. This will also help in minimizing the impact of the present situation on the learning and development of our students and ensure easy access of contextualized e-resources. We would like to caution at this stage that while technology will be required to be used by the child for learning, at the same time, sensitize parents about the misuse/misinterpretation of information in certain sites that can induce possible distress in children because of exposure to age inappropriate content. Similarly, take measures to ensure the privacy of your students and protecting their data before giving any suggestions for browsing. We are aware of your constant search for reliable e-content for your students. That is why we have collated the following for you:

- a) **Digital Infrastructure for Knowledge Sharing (DIKSHA):** DIKSHA, an MHRD initiative has been adopted widely by 35 States/UTs and CBSE for enriched teaching and learning experiences. DIKSHA's free mobile application can be downloaded on Google Play Store (Android Phones) or DIKSHA website can be accessed through the following URL: <https://diksha.gov.in>.

DIKSHA hosts more than 80,000 curriculum-linked and curated content pieces in 15 languages (mediums of instruction). The wide range of educational material includes explanation videos, experiential content, activities, quizzes, interactive games, lesson plans and worksheets all of which creates an engaging learning experience. Following content on DIKSHA will be useful for students/teachers of CBSE affiliated schools:

- **Content for grades 6 to 10:** DIKSHA has content for Grades 6 to 10 across subjects aligned to NCERT and CBSE, and more content is being uploaded across all grades & subjects within the coming few weeks. Content aligned to CBSE board can be accessed through the following URL: <https://diksha.gov.in/cbse/>. The CBSE board aligned content has been systematically organized as per the NCERT textbooks table of contents.
- **Creative and Critical Thinking (CCT) questions:** CCT items on Reading, Mathematics and Science Literacy are uploaded on a weekly basis on DIKSHA for students of classes VII-X. New questions for CCT practice are uploaded every Monday and answers are shared by Thursday, hence it provides a good opportunity to build critical thinking skills amongst students. The CCT questions and solutions can be accessed through the following URL: https://diksha.gov.in/resources/play/collection/do_31290608850520473612338?contentType=TextBook. Given the success of this program, it will soon be extended to other grades.
- **Question Bank:** For practice by students of class X, this bank is also available and can be accessed using the following URL: <http://cbseacademic.nic.in/revision10.html>
- e-Pathshala and NROER content is now also available on DIKSHA.

- b) **E-Pathshala:** NCERT has uploaded 1886 audio files, 2000 videos, 696 e-Books (ePUB format) and 504 flip books for classes I to XII in different languages on e-Pathshala. E-Pathshala can be accessed through the following website URL: <http://epathshala.nic.in> or <http://epathshala.gov.in>.
- c) **National Repository of Open Educational Resources (NROER):** NROER has a total of 14527 files including 401 collections, 2779 documents, 1345 interactive content pieces, 1664 audio files, 2586 images and 6153 videos in different languages. NROER content can be accessed through the following website URL: <http://nroer.gov.in/welcome>.
- d) **SWAYAM:** SWAYAM is a national online education platform that hosts 1900 courses covering school education (grades IX-XII) and higher education (under graduate and post graduate programs). SWAYAM content can be accessed through the following website URL: <https://swayam.gov.in>. Major subjects of Secondary and Senior Secondary level developed by NIOS are also available on URL: https://swayam.gov.in/nc_details/NIOS
- e) **SWAYAM PRABHA:** SWAYAM Prabha has 32 DTH TV channels transmitting educational content 24/7. These channels are available for viewing all across the country using DD, Free Dish Set Top Box and Antenna. The channel schedule and other details are available on the portal. These channels cover both school education (grades IX-XII) and higher education (under graduate and post graduate programs).
- SWAYAM Prabha content can be accessed through the following website URL: <https://swayamprabha.gov.in>.
 - DTH Channel no 27 (Panini) <https://www.swayamprabha.gov.in/index.php/program/current/27> (Secondary) and channel no 28 (Sharda) https://www.swayamprabha.gov.in/index.php/channel_profile/profile/28 (Sr. Secondary) have very useful content prepared by NIOS.
 - Kishore Manch 24x7 TV channel of NCERT under Swayamprabha can be visited on Channel #31
- f) **YOUTUBE CHANNELS:**
- NIOS and CBSE also run YouTube channels for secondary and senior secondary level subjects:
- For classes 9 and 10 NIOS content can be viewed on:
https://www.youtube.com/channel/UC1we0IrHSKyC7f30wE50_hQ/videos
 - For classes 11 and 12 NIOS content can be viewed on:
<https://www.youtube.com/channel/UC6R9rI-1iEsPCPmvzlunKDg/videos>
 - For class 12 Physics, Chemistry and Mathematics, CBSE content can be viewed on:
<https://www.youtube.com/channel/UCG7qv69PhtZlwDzB2vTWzKQ/videos>

g) PODCAST:

CBSE launched a Podcast app '**CBSE-Shiksha Vani**', which is available on Play Store for Android phone users. The Board uses this platform to disseminate crucial information to students, parents, teachers and principals through podcast, besides providing audio files on diversified topics ranging from Storytelling to various academic and skill subjects by experts.

h) NATIONAL DIGITAL LIBRARY OF INDIA: The National Digital Library of India is an integration platform for schools, colleges, universities, teachers, students, lecturers, differently-abled pupils, and anybody who has a willingness to learn. NDLI content can be accessed through the following Website URL: <https://ndl.iitkgp.ac.in/>

i) IIT Pal: Students who are interested in getting online coaching for IIT entrance exams can access lectures on Physics, Chemistry, Mathematica and Biology on the official website of National Testing Agency at the link: <https://nta.ac.in/LecturesContent>