

During COVID-19, the educational system changed.

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ABSTRACT

The spread of covid-19 has been brought various challenges in front of educational system in whole world. The closure in the school and colleges force them to use alternate means for providing education. The present paper firstly aiming to present a review about various methods used for re-starting learning among students in the absence of regular physical formal school and college setup. Secondly, the paper will focus on the challenges faced by teachers and students at different level in implementing the new methods of teaching. Here, the paper will also include the problems faced during the use of different means of Education in teaching and learning. Today, for the safeguard of health of students a mandate is passed for the closure of school and college. As a result online learning and distance education as a mode of education is opted to ensure continuity in learning and for completion of curriculum. This process initiated various means of teaching- learning at various educational stages like internet, TV, radio, social networking sites and so on. The aim is to get connected with students and also to engage them in learning process. This initiation of using ICT and distance learning program brought changes on education system. The teachers and students started using online resources and interaction tools and applications that they never used or less explored earlier. So, here, The paper will also explore such areas and the tools. The covid era also encouraged teachers to make their own online teaching-learning resources for their students. Such initiatives are also explored in the paper. At last the paper will focus on the challenges and changes faced at different levels by teachers and students while using such initiatives.

Key Words: *ICT, Online Learning, Distance Learning.*

I. INTRODUCTION

World is facing the situation of lockdown due to covid 19 pandemic. The impact of this pandemic is also visible on the education sector. Worldwide governments of different countries passed mandates of closing schools and universities. As a result governments and the private sector searched for alternatives for re-starting education in lockdown situations. For this they adopted distance learning and online learning. As online and distance learning is an approach that can help in providing learning to those who are settled in far areas and having no relation with the physical school and its resources. The paper firstly discuss about the ODL mode and its based teaching.

Secondly, this paper is analysing the change that occurred in Education System during covid 19 situation. The article while taking about the changes reflect the technologies used by teachers at different levels for fulfilling the educational goals. These changes includes the shift that occur in:

1. Learning Without Teacher and School.
2. The physical classroom setup that changed into virtual classroom and the technologies used for this process,
3. The learning style of learners also changed. Students adopted online learning applications. It becomes more self regulated and self paced based.
4. Change in teaching style, adoption of new technologies, tools, methods that are used less or not used earlier.
5. The direct face to face interaction of classroom changed into virtual discussion through forums discussion, group chat etc,
6. Regular course content now divided into small portions followed by online feedback chat session,
7. The change in school timings shifted to new classroom timings,
8. The evaluation procedure shifted to thee self evaluation and becomes online based. Such changes will be discussed in the article in detail.

These changes are not easy to apply many difficulties came in this process. The article will bring forward these problematic areas also. Such problems includes

1. Technological difficulties
2. Socio- economic difficulties
3. Teacher's knowledge of technologies

4. Student's adaptability with new technologies
5. Attendance problem
6. Psychological difficulties

The result of this shift from old learning style to new set up brought various results, such results are also discussed in Article. Let us know the meaning of ODL that is being adopted as mode of teaching Worldwide.

ODL AND ITS IMPORTANCE

ODL means online and distance Learning. As stated by Encyclopaedia Britannica "Distance learning, also called distance education, e-learning, and online learning, form of education in which the main elements include physical separation of teachers and students during instruction, the use of various technologies to facilitate student-teacher and student-student communication"¹ and E learning resource availability. It encourages the learning at distant mode without direct interaction with the teacher. The countries that do not have physical set up of schools and colleges and other resources available in every part of the country. Such countries can adopt ODL mode of learning to reach a larger mass. It includes radio, Educational Television, online learning tools, learning games etc. The importance of ODL includes:

- Equity to education
- Easy access to Education
- Provides relevant programs for social relevance
- Cost effective in nature
- Effective coverage of mass.

CHANGING EDUCATION SYSTEM THROUGH TECHNOLOGY

Before Covid 19 formal education system was based on physical set of school and colleges but for the safeguard of lives and health of students mandate passed by government to lock down it. Now school authorities and teachers found out various means to regulate students learning it includes:

A. LEARNING WITHOUT TEACHER AND SCHOOL: The initiatives taken by government to start learning without teacher and school. Hence, various LMS and Platforms and Apps developed by government of India for providing education to the students. Some initiatives are as follows:

1. **EDUCATIONAL RADIO** helped a big mass not having strong socio economic condition to continue their learning. In India Prasar Bharti, IGNOU and others are also providing learning through radio learning facilities.

2. **EDUCATIONAL TV:** In India Swayam prabha channel is very much popular for initiating learning of students. The content is prepared and delivered by experts under the supervision of NCERT AND CBSE.

3. **SWAYAM:** It is a learning portal that help student to learn at their own pace. Students can learn various subjects of school level, Under graduate level and post graduate level. The subjects relating to Arts, Commerce, science, Humanities, teacher education etc are included in it.

4. **IGNOU STUDENT app:** This application helped students of IGNOU to get learning material and online assignments.

Students also used various other modes of learning the content through computer or mobile based applications. Some apps are as follows:

1. **Khan Academy**

2. **Unacademy**

B. CHANGES IN CLASSROOM LEARNING MANAGEMENT: The physical school system is replaced by virtual classes in COVID 19 crises. These Techniques and applications are as follows:

- **Video Conference System:** In an online mode it is used for synchronous interactions like Zoom, Google meet, BigBlueButton, Jitsi etc

- **Platform:** Platforms can be expressed as "containers" having content. It is used to facilitate communication at various level, collaboration and assessment.

- **Learning Management Systems :** LMS stands for course management systems like Moodle, Kolibri etc. It aims to enhance collaboration and includes management of documents in a course system like Microsoft Teams, Google Classroom etc.

- **Potals, Tools and Technologies used:**

- ✓ Use of various methods for sharing resources like in whats Up Group, Google Classroom, Google Groups.

- ✓ Developing Youtube channels

- ✓ Taking live classes on Facebook, Youtube etc

- ✓ Taking online classes through zoom, google meet
- ✓ Taking call conferencing lectures

C. **CHANGE IN CONTENT AND LEARNING MATERIALS:** The Digital content is now provided to the students. The Digital content includes the content in the form of text, images, videos, audio in various formats PDF, e-Pubs, podcasts, PPT, videos, animations etc. The Development of Digital Content includes:

- ✓ Self created content
- ✓ National resources
- ✓ International OER

E- Content Development: Developing contents for students in various forms pdf, ppt, videos etc. Using various tools for developing content like

- ✓ for text lectures adobe scanner, cam scanner for sharing handwritten notes in pdf form
- ✓ for video lectures using video scanners, presentation tube for recording lectures
- ✓ for audio lectures using podcast (podbean) software.
- ✓ Developing interactive videos

D. **CHANGE IN LEARNING STYLE:** The learning of students are properly regulated by teacher's instructions and school based activities but in lockdown the style of learning is changed. The learning is now more self -based and self paced. The learning material in the form of video and text is provided to students and students learn by themselves. The Classes conducted by teachers Questions asked and the learners evaluate themselves and their progress under teacher's guidance.

E. **CHANGES IN TEACHING INSTRUCTION METHODS:** Schools and colleges are Supporting teachers who have skills to deliver Radio lectures and TV broadcast lessons. Many countries are putting efforts to find and encourage innovative teachers like those who are delivering lectures on YouTube, Facebooks, Radio etc.

F. **CHANGES IN EVALUATION PROCESS:** Teachers at various stages are adopting new evaluation process

- Google Forms
- Google Quiz
- Google Assignment
- Google Classroom
- Mendimeter. Com
- Whats up viva
- Google duo Viva
- Call conferencing Viva

G. **CHANGES IN MODE OF INTERACTION:** the teachers and educators at all levels and stages are continuously interacting with students and their parents through various means (video or text) for various purposes like Guidance for safeguard of health, counselling of students for mental well being, schedule of classes etc.

1. Use of SMS services and Social Media to reach learners to ensure regular continuous communication with teachers. It will provide required updates and guidance to students and parents during school closure.
2. Use of virtual interactive classes on platforms like ZOOM, GOOGLE MEET etc. for face to face interactions.

H. **ROLE OF TEACHER:**

- ✓ To aware students and parents about covid 19 and health concern
- ✓ **To provide guidance to parents and students for mental health**
- ✓ **To aware about learning procedures and classroom timings.**
- ✓ To engage students in without school and teacher activities
- ✓ To make E content and take digital or virtual classes etc.

PROBLEMS IN IMPLEMENTING ODL

The problems faced during implementing ODL mode following problems faced by government, and college and school administrators and teachers:

1. **TECHNOLOGICAL DIFFICULTIES:**

- The network related problems, the non availability of proper electricity facility restrict people in reaching and using Learning facilities provided by government and educational institutions.

2. SOCIO- ECONOMIC DIFFICULTIES:

- *Many countries* are not economically strong. They even do not have adequate facilities to start and shift to online teaching and learning. The data revealed that In world More than 30 countries shifted to educational radio based learning. But still, some even do not have such opportunity and they had not used education radio earlier.

- In countries like India some *families* are not economically strong. As a result they even fail to have TV to see educational channel broadcast. Due to their location barrier they face problem of catching network. For mobile based learning they even do not have proper recharges.

3. **TEACHER'S KNOWLEDGE OF TECHNOLOGIES:** All the teachers are not having skills of using Online tools of teaching like google classroom, Zoom etc. They even not have efficient literacy skill to construct learning material.

4. **PARENT'S AND STUDENT'S ADAPTABILITY WITH NEW TECHNOLOGIES:**

- Student's previous knowledge of using technological applications and tools also effected their learning. As some of them are not having enough knowledge of using it.

- The illiterate parents are also facing problems to go with instructions provided by schools for continuing their child's learning.

5. **ATTENDANCE PROBLEM:** It is difficult to check the attendance during classes. As we can only see their entrance through email but after entry are they attending or not is difficult to assess.

6. **PSYCHOLOGICAL DIFFICULTIES:** In covid 19 situation students are facing various psychological problems that are affecting their learning. These problems are:

- Feeling of Psychological trauma going in mind stopped student's thinking to cope with situation. They are feeling trauma situation and a fearful mind restrict them to learn anything.

- No Exam and regular school changed their mentality about education. They are getting away from formal school set up. As it is not adaptable for them to take classes at home as they do not have such environment at home.

II. RESULTS

5. Awareness raised in parents, students and teachers about COVID 19
6. Completion of Syllabus on time
7. Student's Engagement in Learning
8. Proper teacher student Interaction
9. Technological skill development in Students
10. Technological skill development in Teachers
11. More effective use of ICT in education
12. New innovative and creative ways of teaching learning developed.

III. CONCLUSION

The COVID 19 changed the whole educational scenario. The objective of education is to continue the learning of students without coming in physical contact with each other. Due to the government initiatives like Swayam, Swayam Prabha students continued their learning without school and teacher. The educational institutions also taken initiatives to provide education through digital means through digital content and virtual classes. So, a big change can be seen in educational set up of the country.

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