

National Education Policy 2020 and Role of Higher Education for Sustainable Development Goals in India

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**Prof. Dr. S. C. Advitot
Principal (Add. Charge)
C. B. Khedgi's Basaveshwar Science
Raja Vijaysinh Commerce & Raja
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**An Introspective Study To Evaluating The Effectiveness Of Information And
Communication Technology And Open Educational Resources In Education.**

Dipayan Singha¹, Amit Mitra²

¹SACT, Lalbaba College,

²SACT, Lalbaba College

Corresponding Author **Dipayan Singha**

Email-Singha.Dipayan@Yahoo.Com

Abstract

Education Sector Has Transposed Its Entire Structure By Conducting Online Classes And Online Exams. Pandemic Situation Triggered The Need For Use Of Information Communication Technology (Ict) In Education. The Traditional Form Of Education Focused On Classroom Teaching Process But Ict Revealed Ample Amount Of Advantages Over The Previous Form Of Teaching. Open Education Resources (Oer) Are Notes, Lectures, Projects, Research Work Etc. In Any Format That Permit No-Cost Access, Re-Use, Re-Purpose, Adaptation And Redistribution By Others. Due To Easy Access To Technology Possibilities Have Extended Over The Period. Students Are Accepting Ict As A Preferred Medium While Studying. Ict Helps In Improving The Existing Education System To Reach Mass Level Of Students.

Keywords – Ict, Oer, Pandemic, Etc.

Introduction

Knowledge Sharing Has Its Roots From Very Early Age. Education Has Benefitted Humans In Developing Problem Solving Skills, Providing Employment Opportunities, Improving Standard Of Living, Creating Modern Society, Etc. The Main Reasons That Restrict Education In India Are Social And Economic Divide Within The Country, Lack Of Infrastructure, Poverty, Population, Brain Drain, Etc. While Few Of These Problems Have Natural Existence, But Can Be Dealt To Some Extent By Digitisation. The Medium Opt To Transfer Knowledge Always Resulted In Limited Reach Due To Traditional Methods of Teaching. While Digitisation Has Expanded To Every Sector, Education Must Not Be An Exception. In The Present Technology Driven Era, Communication Is Made Much Easier With The Help Of Advanced Technology. India Had 1.2 Billion Mobile Phone Subscribers In 2021, Of Which Approximately 750 Million Are Smartphone Users. India Has Been Adopting Technology In A Fast Rate. And Post Covid Scenario Reflects A Massive Increase In Smart Phone Uses For Fruitful Uses. Society Never Thought Of Accepting The Same But The Post Pandemic Era Urged The Need Of Online Education As An Overnight Solution To The Ceased Education System. Use Of Information Communication Technology (ICT) As An Improved Medium To Transfer

Knowledge To Mass Is A Great Opportunity To The Beneficiaries As Well As Teachers. Open Education Resources (OER) Are An Important Source While Creating Notes, Lectures, Projects Etc. In Any Format That Permit No-Cost Access, Re-Use, Re-Purpose, Adaptation And Redistribution By Others.

Review of Literature

Jo, S.F. (2013): The Study Assessed Perception And Attitudes Of Secondary Teachers In Rural Areas Towards The Integration Of Technology Into Teaching And Learning. The Study Indicated That The Majority Of Teachers Resist Change And Have No Positivity In Improving The Existing Education System. The Study Further Established That There Is A Need To Provide All Schools With Adequate Internet Access And Proper Infrastructural Facilities.

Shernoff Et Al., (2016): Teachers' Support Is Of Significant Importance To Ensure Students Engagement In ICT. Teachers' Support Can Improve Student's Engagement Whereas It Is Equally Likely That Students' Active Engagement Can Boost Teachers' Provision Of Autonomy Support. Thus Students And Teachers Both Play An Pivotal Role In Adaptation Of ICT.

Kintu, M.J., Zhu, C. & Kagambe, E.(2017): Mentioned That Blended Learning Combines Some Of The Model Learning That Has Been Existed. A Learning Models Such As Face To Face, Offline Learning, And Online Learning. The Study Evaluated The Effectiveness Of

Blended Learning Environment By Analysing The Relationship Between Student Characteristics Or Background, Design Features And Learning Outcomes.

Sharma, V(2020): Stated That Utilization Of ICT In Instruction Fits More Understudy Focused Learning Settings. Learning Process, Quality And Availability Of Training, Learning Inspiration Etc Have Made Powerful Utilization Of ICT In Education. Learning Condition Are Also Important In Educational Execution.

Objectives Of The Study

The Study Focuses On The Dominance Of ICT In Effective Learning. Education Is Transferred From Teachers To Students In Traditional Class Room Teaching But The Study Is Focused On How Improved Technology Can Support The Already Existing Education System In An Enhanced Manner. **The Primary Objectives Of The Study Are:-**

1. To Understand The Practicality Of ICT In Colleges.

2. To Evaluate The Infrastructural Facilities To Implement ICT.
3. To Assess The Awareness Of OER Among Students.

Research Methodology

The Study Is Based On Primary Data Collected Randomly From 62 Students Of Different Streams And From Various Colleges Of Howrah District In West Bengal. A Set Of Questionnaire Was Prepared On The Use Of Ict By Colleges And Students And How Ict Helps In Improving The Existing Education System Thus Far.

Data Analysis

Data Collected From 62 Students Of Different Undergraduate Colleges Reveal That These Students Belong To The Same Age Group Of 18-23 Years And Are From Different Streams Like Bachelor Of Arts, Bachelor Of Science And Bachelor Of Commerce Proportionately. 51.61% Of The Respondents Were Male And 48.39% Were Female. Composition Of Male And Female Respondents Reflects The Enrolment Of Female Candidates To Higher Education.

Table 1. Adaptation Of ICT By Students.

	Using ICT Is Enjoyable?	Does ICT Motivate Students?	Should ICT Be Given Priority?
Strongly Disagree	-	-	2
Disagree	-	-	3
Neutral	8	14	7
Agree	31	34	22
Strongly Agree	23	14	28
Total	62	62	62

Source – Author Generated Through Questionnaire.

Most Of The Students Agree To Use ICT As An Enthusiastic Approach In Studying But Few Of The Respondents Believe That Classroom Teaching Must Also Be Given Priority So That The Dominance Of ICT Is Not Felt. 38.71 % Of Students Feel That Regional Language In ICT Can Help Them Understand Better Rather Than English As The Only Option In Most Of The Open Educational Resources. While 54.83% Of Respondents Approved That English Do Not Disrupt Their Learning From Internet And 6.46% Students Strongly Oppose To English As The Only Language In ICT. To Adopt ICT And OER The Colleges Must Be Prepared With Internet Facilities In The Campus,

Respondents Of 9 Colleges Entail Themselves In The Survey And 50 Out Of 62

Respondents Agreed That Colleges Provide Wi-Fi Facilities To Students To Enhance Learning. Most Of The Colleges Are Equipped With ICT Tools Like Projector, Computer, Mike, Audio System And Seminar Hall But Few Colleges Lack Interactive Whiteboard And Audio Video Lab. There Are Many OER's Available Including Khan Academy, Coursera, Open Text Book, OER Commons, Youtube, Flicker, Ted, College Website, Etc. But The Most Popular Among Students Is Youtube. 82.25% Students Use Youtube And 12.90% Students Use College Website For Study Material. Access To Mobile Phones Have Increased The Use Of ICT And OER's In Massive Scale And The

Survey Reflects The Same Wherein 48 Out Of 60 Students Use Mobile Phone To Access

ICT While Others Use Laptop And Computers.

Table 2. Use Of OER By Students.

	Taking Help Of Internet To Learn New Topics	Browsing Learning Material From College Website?	Do You Follow College Website For Notices?	Advance Search Option In Google And Set Usage Rights?
Never	-	34	-	38
Rarely	3	14	2	5
Sometimes	3	5	8	10
Often	19	1	9	9
All The Time	37	8	43	-
Total	62	62	62	62

Source – Author Generated Through Questionnaire.

Most Of The Students Are Aware That Anything On Internet Is Not Free To Use Or Modify. 16 Respondents Were Not Aware Of It And Came To Know About Usage Rights Through This Study. Study Material Or Notes On Internet Are Being Considered As The Best Option To These Respondents While Few Of Them Are Interested In Recorded Lectures, Video Classes, PPT, Etc. Students Are Aware Of Copyright And Violation Rules But Using These Resources For Educational Purpose Does Not Affect Them Under Any Circumstances.

Limitations of the Study

Although The Study Was Organised In A Systematic Approach To Evaluate The Use And Implication Of ICT And OER In Education, Still Students Do Not Have A Clear Understanding Of OER. Responses Are Purely Based On Their Understanding. The Study Is Also Restricted To Time And Cost, So A Few Colleges And Few Students Were Included In This Study.

Conclusion

Information Communication Technology And Open Educational Resources Go Hand By Hand To Amplify The Education System Already Prevailing In India. The Study Focuses On How Students Adopt And Use These Technology And Resources With Changing Time. A Positive Result Was Observed After Conducting Survey On College Students Which Included Facilities And Amenities Provided By College And

Teachers As Well As Students Perspective On How Effective These Methods Are In Day To Day Learning. Most Of The Colleges Are Equipped With Wi-Fi Facilities, Projector, Computer, Seminar Hall And Audio System. College Website Proves To Be An Effective Tool In Communication And Providing Study Materials To Students. Whereas Students Are Also Strengthening Themselves By Using Open Text Book, Oer Commons, Youtube, Flicker, Ted, College Website, Etc. Ict Used In Day To Day Pursuit Has Automatically Made Its Place In Teachers And Students Mind But Oer's Are A New Concept To Most Of These Students And Lack Of Awareness Is Felt. While The Implication Of Oer's And Non-Oer's Are Not Deleterious To Students Pursuing Graduation As These Resources Are Being Used In Pen And Paper Method While Creating Personal Notes And In Examinations. In Cessation, The Students Are Happy, Motivated And Enjoying Ict And Oer As A Technique In Modern Day Education.

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