REFERENCES

- Ambrose, D. W. (1991). The effects of hypermedia on learning: A literature review. Educational Technology, 31 (12), 51-55.
- Athaide, M. (2005). A study of the effectiveness of the training program conducted by intel India for secondary school teachers. (Doctoral Dissertation, University of Mumbai). In Goel, D.R. Goel, C. & Madhavi, R.L. Abstracts of Research Studies Conducted by Teacher Education Institutions in India. The M.S. University of Baroda. Retrieved on February 1, 2022, from http://www.educationinindia.net/download/r forum/Research_Abstracts.pdf
- Baviskar, C.R. (2007). Development of Test-based computer multimedia software package for school students to enhance their academic achievement in science and Zoology in particular A Study. Unpublished doctoral dissertation, Department of Education, Shivaji University, Kolhapur. Retrieved from http://shodhganga.inflibnet.ac.in:8080/jspui/bitstream/10603/1005 4/7/07 chapter%202.pdf
- Baylor, A.L., & Ritchie, D. (2002). What factors facilitate teacher skill, teacher morale and perceived student learning in technology-using classrooms? Computers and Education, 39 (4), 395-414
- Behrens, J. T. (1997). Principles and procedures of exploratory data analysis. Psychological Methods, 2,131-160. Bibliography 156
- Benjamin, A., & Edward, W. (2007). Development of Interactive

- Multimedia CD-based Learning Courseware for Learning Physics at Higher Secondary Level. Unpublished doctoral dissertation, Alagappa University, Karaikudi. Indian Educational Abstracts Vol. 8, No. 2. Retrieved on June, 2021 from http://www.ncert.nic.in/publication/journals/pdf_files/indian_education_abstracts/july_2008_IEA.pdf
- Berger, C.F., Lu, C. R., Beltzer, S. J., & Voss, B. E. (1994). Research on the uses of technology in science education. In D. L. Gabel (Ed.), Handbook of research in science teaching and learning (pp. 446-490). New York: Macmillan.
- Bhalla, J. (2011). A Study of Factors Affecting the Use of Computers by
 the School Teachers in Teaching Learning Process. (Doctoral
 dissertation, Jamia Millia Islamia, New Delhi). Retrieved on
 September 2021, from
 http://jmi.ac.in/upload/Research/ab2011 Educational Jyoti.pdf
- Bhardwaj, V. (2007). ICT usage in 1000 schools of India. Retrieved

 February 12, 2022 from
 http://www.digitallearning.in/articles/article-details.asp?
 articleid=1538&typ=COVER%STORY
- Bijnens, M., & Vanbuel, M. (2004). Streaming Media in the Classroom.

 Education Highway, Linz. Bibliography 157
- Blumenfeld, P.C. Soloway, S., Marx, R.W., Krajcik, J.S., Guzdial, M., & Palincsar, S. (1991). A Motivating project-based learning:
 Sustaining the doing, supporting the learning. Educational
 Psychologist. 26 (3, 4), 369-398.
- Chanlin, L.J., et. al. (2006). Factors influencing technology integration in

- Teaching: A Taiwanese perspective. Innovations in Education and Teaching International, 43 (1), 57-68.
- Chen, G., Cheng, W., Chang, T. W., Zheng, X., & Huang, R. (2013). A comparison of reading comprehension across paper, computer screens, and tablets: Does tablet familiarity matter? Retrieved from http://downloadv2.springer.com/static/pdf/111/art%253A10.1007 %252Fs40692-014- 0012z.pdf?token2=exp=1432290579~acl=%2Fstatic%2Fpdf%2F1 11%2Fart%
 - 25253A10.1007%25252Fs406920140012z.pdf*~hmac=1cfb7144e 94cd8f44bd 605b7b4bb79d381ecaf150a3e7c14b2f5e1cfaca9fef8
- Cleveland, W. S., & McGill, M. E. (Ed.) (1998). Dynamic graphics for statistics. New York: Chapman and Hall.
- Cronje, J.C., & Fouche, J. (2008). Alternatives in evaluating multimedia in secondary school science teaching. Computer & Education, 52 (2), 559-583.
- Cuban, L. (2003). Oversold and underused. New York: Harvard University Press.
- Deimann, M., & Keller, J. M. (2006). Vocational aspects of multimedia learning. Journal of Educational Multimedia and Hypermedia, 15 (2). 137- 158. (ERIC Document Reproduction Service No. EJ729628).
- Del, M., Rysavy, S., & Sales, G.C. (1991) Cooperative learning in computer-based instruction. Educational Technology Research and Development, 39 (2), 70-79. Bibliography 158
- Demetriadis, S., et.al. (2003). "Cultures in negotiation: Teachers' acceptance/ resistance attitudes considering the infusion of technology into schools". Computers and Education, 41 (1), 19-37.

- Desai, Y. B. (2004). A comparative study of the efficacy of teaching through the traditional method and the multimedia approach in the subject of home science. (Doctoral dissertation, South Gujarat University). In Goel, D.R., Goel, C. & Madhavi, R.L. Abstracts of Research Studies Conducted by Teacher Education Institutions in India. The M.S. University of Baroda, retrieved on February 10, 2022 from http://www.educationinindia.net/download/forum/Research Abstracts.pdf
- Duggal, N. K. (2012). A comparative study of science curriculum of

 NCERT and QCA (UK) to evolve a model for the integration of ICT
 in science teaching at the upper primary and secondary level.

 (Doctoral dissertation, Jamia Millia Islamia, New Delhi). Retrieved
 on September 2021, from

 http://jmi.ac.in/upload/Research/ab 2013 es_nkdkhandpur.pdf
- Ebel, R.L. (1965). Measuring Educational Achievement. Englewood Cliffs, N.J.: Prentice Hall Inc.
- Educational Multimedia A Handbook for Teacher-Developers. Version

 1.1, Commonwealth Educational Media Centre for Asia. Retrieved

 July, 2021 from

 http://cemca.org.in/ckfinder/userfiles/files/Section2.pdf
- Ehman, L., & Glenn, A. D. (1991). *Interactive technology in the social studies*. In J. P. Shaver (Ed.), Handbook of research on social studies teaching and learning (pp. 487-499). New York: Macmillan.
- Fensham, P. J. (1990). What will science educators do about technology?

 Australian Science Teachers Journal. 36 (3), 8-21.
- Festinger, L., & Katz, D. (1953). Analysis of Qualitative Material, Research

 Methods in Behavioral Sciences. New York: Holt, Rinehart &

 Winston. Bibliography 159
- Finn, L. (2002). Using video to reflect on curriculum. Educational Leadership, 59 (6), 72-74.

- Fox, D. J. (1969). The Research Process in Education. New York: Holt, Rinehart and Winston, Chapter 21-22, pp.313-339
- Freeman, F. S. (1965). Theory and practice of psychological testing (Third Ed). New Delhi: Oxford and IBH Publishing Co.
- Goel, D.R., Tomer A., Khirwadkar, A., Das, A. & Joshi, P. (2000).

 Implementing CAI in schools: An Experience. A project report,

 CASE, The M.S. University of Baroda, Baroda.
- Goforth, D. (1992). Visualization and Computer assisted learning: The role of Video discs. British Journal of Educational Technology, 23, 21 27.
- Good, C. V. (2006). Introduction to Behavioral Research: Methodology of Design in the Behavioral and Social Sciences (2nd ed.). Delhi: Surject Publications.
- Gupta, M., & Lata, P. (2014). Effectiveness of IT- Enabled Instructional Package (ITEIP) on Science Achievement of X class Students in Relation to their Gender. British Journal of Education, Vol.2, No.4, pp.17-30. Retrieved on December, 2021 from http://www.eajournals.org/wp-content/uploads/Effectiveness-of-It-Enabled-Instructional-Package-Iteip-On-ScienceAchievement-of-X-Class-Students-In-Relation-To-Their-Gender.pdf
- Hahn, C. (2001). Democratic understanding: Cross-national perspectives.

 Theory into Practice 40 (1): 14-22.
- Hennessy, S. & et.al. (2007). Pedagogical approaches for technology integrated science teaching. Computers and Education, 48 (01).
 137-152. (ERIC Document Reproduction Service No. EJ743698).
 Bibliography 160
- Hofsteller, F.T. (2001). *Multimedia Literacy* (3rd Ed.) New York: McGraw Hill/Irwin.
- Irudayam, R., & Goel, D. (2011). Development and Implementation of a Multimedia Package to Teach Biology to Std. XII Students. Education India Journal: A Quarterly Refereed Journal of Dialogues

- on Education, Vol. 3, Issue-4. Retrieved on June, 2021 from http://www.educationindiajournal.org/ journal/Vol.%203, %20Issue-4, %20November%202014.pdf
- Jaiswal, K. (1992). A study of higher education science education television programs in forms of their contents, presentations, student's reactions and effectiveness. Unpublished doctoral dissertation, Education, Devi Ahilya Vishwavidyalaya, fifth survey of Research in Education, 1988-1992, Vol. 1, NCERT, pg. 421
- Jabra, A., Gershom, P., & Mohana Sundaram. S. (2008). Effectiveness of content in Teaching of Physics at Tertiary Level. Journal of Educational Research and Extension, Vol. 45, No.1. pp. 1-8. Indian Educational Abstracts Vol. 8, No. 2, July 2008. Retrieved on June, 2015 from http://www.ncert.nic.in/publication/journals/pdf_files/indian_education_abstracts/july_2 008_IEA.pdf
- Jeyamani, P. (1991). Effectiveness of Simulation Model of Teaching through Computer Assisted Instruction. M. Phil, Education, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, fifth survey of Research in Education, 1988-1992, Vol. 1, NCERT, pg. 426 Bibliography 161.
- Joel, T. E., & Thangarajathi, S. (2011). Influence of multimedia in enhancing attitudes towards computer science at higher secondary level. Indian Streams Research Journal, Vol- I, Issue- IV, Retrieved on May, 2022 from http://isrj.org/ArchiveArticle.aspx?ArticleID=150#abstract
- Jonassen, D.H. (Ed.) (1995). "Handbook of Research for Educational Communication and Technology", Simon & Schuster/MacMillan, New York.
- Joshi, A. (2010). Innovative Teaching: Using Multimedia in a Problem-Based Learning Environment. Current World Environment, Vol. 6 (1), 183-186. Retrieved on August, 2021 from

- http://www.ewejournal.org/pdf/vol6no1/ CWEVOL6NO1P183-186.pdf
- Kalimuthu, T. (1991). Developing a video program, me on environmental pollution in biology for higher secondary students. M. Phil., Education, Madurai Kamaraj University, fifth survey of Research in Education, 1988- 1992, Vol. 1, NCERT, pg. 421.
- Kara, Y., & Ilyurt, Y.S. (2008). Comparing the impacts of tutorial and edutainment software programs on students' achievements, misconceptions and attitudes towards biology. Journal of Science Education and Technology. 17 (1), 2008. 32-41
- Keene, J., & Anyanwu, L.O. (2007). Computer Technology- infused learning enhancement. Journal of Science Education and Technology.16 (5), 387-393. Bibliography 162
- Kelly, R.M., & Jones, L.L. (2007) Exploring how different features of animations of sodium chloride dissolution affect students' explanation. Journal of Science Education and Technology. 16 (5), 413-429.
- Kerlinger, F. N. (1973). Foundation of Behavioral Research (2nd Ed.). New York: Holt, Rinchart and Winston.
- Keeves, J. P. (1988). Educational Research, Methodology and

 Measurement an International Handbook. Oxford, Pergamon Press.
- Khirwadkar, A. (1999). Developing a computer software for learning chemistry Standard IX. (Doctoral dissertation, The M.S. University of Baroda). In Goel, D.R. Goel, C. & Madhavi, R.L. Abstracts of Research Studies Conducted by Teacher Education Institutions in India. The M.S. University of Baroda. Retrieved on February 10, 2022, from http:// www.educationinindia.net/download/ or forum/ Research_Abstracts.pdf
- Kinnear, H., McWilliams, S., & Caul, L. (2002). The use of interactive video in teaching teachers: An evaluation of a link with a primary school. British Journal of Technology, 33 (1), 17-26.

- Kulkarni, A.H. (2000). A comparative study of male and female secondary school teachers with respect to their personality traits, competency and teaching effectiveness. (Doctoral dissertation, Shivaji University). Sixth survey of Research in Education (1993-2005). Retrieved from Devi Ahilya Vishwavidyalaya, Indore. http://eduresearch.dauniv.ac.in/
- Kumar, K. S. K., & Patil, S.S. (2011). Teaching Grammar through Multimedia to Rural Secondary School Students. Indian Streams Research Journal, Vol- I, Issue- V, Retrieved on August, 2021 from http://isrj.org/ArchiveArticle.aspx? ArticleID=238#abstract
- Lawless, K., & et.al. (2005). Diabetes and your eyes: A pilot study on Multimedia Education for underserved population. International Journal of Instruction Media, 32 (1)17. (ERIC Document Reproduction Service No. EJ698798)
- Lee, P.M., & Sullivan, W.G. (1995). The use of multimedia support materials in engineering education. Computers & Industrial Engineering. 29 (1-4), pg65-69.
- Malaga, T. (2003). Relative Effectiveness among Different Strategies of
 Computer Mediated Multimedia Presentation in Teaching and
 Learning of Chemistry at Higher Secondary Stage. Unpublished
 doctoral dissertation, Bharathiar University, Indian Educational
 Abstracts Vol. 6, No. 2. Retrieved on November, 2018 from
 http://www.ncert.nic.in/publication/journals/pdf_files/iea/july-06/IEA_July06.pdf Bibliography 164.
- Marri, A. (2003). Multicultural democracy: Toward a better democracy. Intercultural Education 14 (3): 263-277.
- Mayer, R.E., & Gallini, J.K. (1990). "When is an illustration worth ten thousand words?" Journal of Educational Psychology, 82 (6), 715-726.
- Meera, S. (2000). Relative Effectiveness among Different Modes of

- Computer based Instruction in Relation to Students' Personality
 Traits. Unpublished doctoral dissertation, Bharathiar University,
 Indian Educational Abstracts Vol. 6, No. 2. Retrieved on September,
 from http://www.ncert.nic.in/
 publication/journals/pdf files/iea/july-06/IEA July06.pdf
- Millar, S.M. (2005). "Video as process and product", Educause Quarterly, 58-61.
- Moreno, R., & Mayer, E. (2000). "A learner-centered approach to multimedia explanations: driving instructional design principles from cognitive theory". Interactive Multimedia Electronic Journal of Computer-Enhanced Learning
- Mouza, C., Parson, R., & Ferreira, V.L. (2003). Using technology in early childhood education: The 100 days of school project. Retrieved on July 2014 from http://cblis.uniza.sk/cblis-cdold/2003/3.PartB/Papers/ICT_2/Mouza.pdf
- Myers, D.K. (1990). Interactive video: A chance to plug the literacy leak, Industry Week, April, 239, 15-18
- Owen, H., & Martin, H. (2010). Multimedia Enhancement of opportunities and outcomes for learners engaged in open, flexible and distance learning: Theory and Practice. Retrieved on February 13, 2022.
- Petko, D., Egger, N., Cantieni, A., & Wespi, B. (2014). *Digital media*adoption in schools: Bottom-up, top-down, complementary or

 optional? Computers and Education. Retrieved on May, 2022 from

 http://www.sciencedirect.com/science/journal/03601315/84
- Pillay, G., Subramonia, G., & Anandan, K. (1990). An analysis of educational video productions made in India. Independent Study. Madurai Kamaraj University, fifth survey of Research in Education, 1988-1992, Vol. 1, NCERT, pg. 422
- Position paper (2006): National focus group on Teaching of Social Sciences, NCERT
- Rajasekar, S., & Viipuri, Raja, P. (2008). Higher Secondary School

- Teachers' Computer Knowledge and Their Attitude towards Computer. Journal of All India Association for Educational Research, Bhubaneswar. Vol.19, Nos. 1 and 2, pp.70-76. Indian Educational Abstracts Vol. 8, No. 2. Retrieved on June, 2015 from http://www.ncert.nic.in/publication/journals/pdf files/indian_educ ation abstracts/july 2008 IEA.pdf
- Rao, S. R. (2008). Access, Awareness and Use of Media Support Services,

 Strategies to Make them Popular with Learners. Indian Journal of

 Open Learning, New Delhi. Vol.17, No. 2, pp. 163-173. Indian

 Educational Bibliography 167 Abstracts Vol. 8, No. 2. Retrieved on

 June, 2021 from http://www.ncert.nic.in/

 publication/journals/pdf_files/indian_education_abstracts/july_200

 8_1EA.pdf
- Rhodes, A., Rozell, T., & Shroyer, G. (2014). Use of Multimedia in an Introductory College Biology Course to Improve Comprehension of Complex Material. Journal of Educational Multimedia and Hypermedia, 23(3), 285-303. Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). Retrieved on June, 2015 from http://www.editlib.org/p/130322/
- Rosenberg, M.J. (2001) "E-learning: strategies for delivering knowledge in the digital age." McGraw Hill, New York.
- Shakunthala, K.S. (2001). A study of the adjustment of secondary school teachers in Relation to their teaching competency, emotional maturity and mental health. (Doctoral dissertation, Bangalore University). Sixth survey of research in education (1993-2005). Retrieved from Devi Ahilya Vishwavidyalaya Indore. Website: http://eduresearch.dauniv.ac.in/
- Sharma, P. (2013). Role of Interactive Multimedia for Enhancing Students'

 Achievement and Retention. International Women Online Journal of
 Distance Education, July, 2013 Volume: 2 Issue: 3 Article: 02
 Retrieved from

- http://www.wojde.org/FileUpload/bs295854/File/02_23.pdf on 26 May, 2022.
- Singh, R. D., Ahluwalia, S. B., & Verma, S. K. (1991). Teaching of Mathematics: effectiveness of Computer- assisted Instruction (CAI) and conventional method of instruction. Indian Educational Review, Vol. 26 (4), 15-34.
- Singh, Y. G. (2010). A Study of Effectiveness of Multimedia Program in

 Teaching Biology. International Research Journal, Vol. I, Issue 11.

 Retrieved on May, 2015 from

 http://www.ssmrae.com/admin/images/db7c3a0c0f710

 d5dcb08ef2749894e6b.pdf

Following websites were also consulted for the purpose of the study

- http://www.britannica.com/EBchecked/topic/551385/social-science
- www.clickandgovideo.ac.uk
- http://en.wikipedia.org/wiki/Central Board of Secondary Education
- www.eric.ed.gov
- http://www.esrc.ac.uk/about-esrc/what-is-social-science/
 - http://www.ncert.nic.in/programmes/education_survey/msise/Concepts%2 0an d%20Definitions%20-%20Alphabatical.pdf
- http://www.ncert.nic.in
- http://www.tech4learning.com
- http://www.webopedia.com/TERM/M/multimedia.html
- www.google.co.in (search engine)